

WBN2Public Resource

From: Boyd, Desiree L [dlboyd@tva.gov]
Sent: Thursday, December 22, 2011 12:06 PM
To: Epperson, Dan; Poole, Justin; Raghavan, Rags; Milano, Patrick; Campbell, Stephen
Cc: Arent, Gordon; Hamill, Carol L; Boyd, Desiree L
Subject: TVA letter to NRC_12-22-11_2-PTI-099-04 transmittal to NRC
Attachments: 12-22-11_2-PTI-099-04 transmittal to NRC_Final.pdf

Please see attached TVA letter that was sent to the NRC today.

Thank You,

~*~*~*~*~*~*~*~*~*

Desirée L. Boyd

WBN Unit 2 Licensing

dlboyd@tva.gov

423-365-8764

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Created By: dlboyd@tva.gov

Recipients:

"Arent, Gordon" <garent@tva.gov>
Tracking Status: None
"Hamill, Carol L" <clhamill@tva.gov>
Tracking Status: None
"Boyd, Desiree L" <dlboyd@tva.gov>
Tracking Status: None
"Epperson, Dan" <Dan.Epperson@nrc.gov>
Tracking Status: None
"Poole, Justin" <Justin.Poole@nrc.gov>
Tracking Status: None
"Raghavan, Rags" <Rags.Raghavan@nrc.gov>
Tracking Status: None
"Milano, Patrick" <Patrick.Milano@nrc.gov>
Tracking Status: None
"Campbell, Stephen" <Stephen.Campbell@nrc.gov>
Tracking Status: None

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December 22, 2011

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Unit 2
NRC Docket No. 50-391

Subject: Watts Bar Nuclear Plant (WBN) Unit 2 - Submittal of Pre-op Test Instruction

The following approved WBN Unit 2 Pre-op Test Instruction (PTI) is enclosed:

| PTI NUMBER | Rev. | TITLE |
|--------------|------|-------------------|
| 2-PTI-099-04 | 0 | Safeguards System |

If you have any questions, please contact Pete Olson at (423) 365-3294.

Respectfully,

A handwritten signature in black ink, appearing to read "David Stinson", with a stylized flourish at the end.

David Stinson
Watts Bar Unit 2 Vice President

Enclosure
cc (Enclosure):

U. S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

U.S. Nuclear Regulatory Commission
Page 2
December 22, 2011

bcc (Enclosure):

Stephen Campbell
U.S. Nuclear Regulatory Commission
MS 08H4A
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852-2738

Patricia Holahan, Acting Deputy Regional Administrator for Construction
U. S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

WATTS BAR NUCLEAR PLANT
UNIT 2 PREOPERATIONAL TEST

TITLE: SAFEGUARDS SYSTEM

Instruction No: 2-PTI-099-04

Revision No: 0000

PREPARED BY: Mark D. Runion / Mark D. Runion DATE: 2-3-2011
PRINT NAME / SIGNATURE

REVIEWED BY: A. Blake Lowe / A. Blake Lowe DATE: 2-3-2011
PRINT NAME / SIGNATURE

INSTRUCTION APPROVAL

JTG MEETING No: 2-11-018

JTG CHAIRMAN: [Signature] DATE: 12/19/11

APPROVED BY: [Signature] DATE: 12/19/11
PREOPERATIONAL STARTUP MANAGER

TEST RESULTS APPROVAL

JTG MEETING No: _____

JTG CHAIRMAN: _____ DATE: _____

APPROVED BY: _____ DATE: _____
PREOPERATIONAL STARTUP MANAGER

| | | |
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Revision Log

| Revision or Change Number | Effective Date | Affected Page Numbers | Description of Revision/Change |
|--|---------------------------|--------------------------------------|--|
| 0000 | 12/20/11 | ALL | Initial issue. Created from microfilm copy of 1-PTI-099-04, Rev 0, CN-1 thru CN-9. |

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1.0 INTRODUCTION

1.1 Test Objectives

NOTE

Permissive P-4 is tested in 2-PTI-099-03 and 2-PTI-99-04. 2-PTI-99-03 demonstrates the logic combinations required to generate the P-4 (Reactor Trip) permissive and Reactor Trip - Turbine Trip. 2-PTI-99-04 demonstrates the remaining protective functions of P-4.

Verify the operability of the Engineered Safety Features Actuation System (ESFAS) to perform protective functions for the following:

- Permissive P-4 (Reactor Trip) (see note above)
- Permissive P-11 (Pressurizer Low Pressure)
- Permissive P-12 (Low-Low T_{AVG})
- Permissive P-14 (Hi-Hi Steam Generator Level)
- Manual Safety Injection
- Manual Containment Spray/Containment Isolation Phase B/Containment Vent Isolation
- Manual Containment Isolation Phase A
- Containment Hi-Hi Pressure - Containment Spray Actuation/Main Steamline Isolation/Containment Isolation Phase B
- Pressurizer Low Pressure - Safety Injection
- Main Steamline Low Pressure - Safety Injection/Main Steamline Isolation
- Main Steamline High Pressure Rate - Main Steamline Isolation
- Containment Pressure High - Safety Injection
- P-4 and Low T_{avg} - Main Feedwater Isolation
- RWST Lo-Lo Level/Containment Sump Level High Switchover

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1.1 Test Objectives (continued)

- Containment Spray Flow Interlocks
- Residual Heat Removal Pressure Interlocks
- Main Steam Vault Flood Level - Feedwater Isolation

1.2 Scope

Reactor Trip and Engineered Safety Features Actuation System (ESFAS) inputs to the Solid State Protection System (SSPS) will be bypassed utilizing software in Eagle 21 and Hardware (jumpers) for other process inputs. Bypassing inputs to the SSPS is required to allow testing of the ESFAS coincidence logic. The bypassed ESFAS inputs will be manually tripped to generate ESFAS inputs to the SSPS. Verification of the Reactor Trip signals is completed by monitoring the SSPS UV Coil Voltmeter. ESFAS Slave Relay actuation will be verified for each contact to the output bay terminal block.

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2.0 REFERENCES

2.1 Performance References

- A. SMP-9.0, CONDUCT OF TEST
- B. SMP-15.0, STATUS AND CONTROL OF ISOLATION DEVICES

2.2 Developmental References

- A. Final Safety Analysis Report (FSAR) - Amendment 106
 - 1. Table 14.2-1, Sheet 57 of 89,
Reactor Protection System Test Summary
 - 2. Section 7.2, Reactor Trip System
 - 3. Section 7.3, Engineered Safety Features Actuation System
 - 4. Section 7.6.2, Residual Heat Removal Isolation Valves
- B. 2-TSD-99-4, Safeguards System Operational Test, Rev 1
- C. 1-PTI-99-4, Safeguards System, Rev 0
- D. WBN2-99-4003, System Description For Reactor Protection System, Rev 0
- E. Vendor Manuals
 - 1. VTM-W120-2991, Rev 5
Westinghouse Energy Systems Eagle 21™ Process Upgrade System,
Contract 54114-1
 - 2. VTM-W120-2452, Rev 2
Westinghouse Solid State Protection System Technical Manual,
Contract 54114-1

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2.2.1 Drawings

A. Flow Diagrams

NONE

B. Electrical

1. 2-45W600-1-1, Rev 0, (CC)
Wiring Diagram Main Steam System Schematic Diagrams
2. 2-45W600-1-6, Rev 0, (CC)
Wiring Diagram Main Steam System Schematic Diagrams
3. 2-45W600-47-1, Rev 0, (CC)
Wiring Diagram Turbo-Generator Auxiliaries Schematic Diagrams
4. 2-45W600-47-2, Rev 0, (CC)
Wiring Diagram Turbo-Generator Auxiliaries Schematic Diagrams
5. 2-45W600-57-17, Rev 0, (CC)
Wiring Diagram Separation and Misc Aux Relays Schematic Diagrams
6. 2-45W600-99-1, Rev 0, (CC)
Wiring Diagram Reactor Protection System Schematic Diagrams
7. 45N2632-10, Rev 7, (AD)
Wiring Diagram Miscellaneous Controls Connection Diagram
8. 45N2632-13, Rev 3, (AD)
Wiring Diagrams Miscellaneous Controls Connection Diagrams
9. 45N2635-80, Rev 30, (AD)
Wiring Diagrams Local Instrument Panels Connection Diagrams
10. 45N2663-3, Rev 7, (AC)
Wiring Diagram Reactor Protection Set III Connection Diagrams
11. 45N2664-3, Rev 7, (AD)
Wiring Diagram Reactor Protection Set IV Connection Diagrams
12. 45N2676-1, Rev 5, (AD)
Wiring Diagrams Solid State Protection Sys Train-A Connection Diagram

| | | |
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2.2.1 Drawings (continued)

13. 45N2676-2, Rev 7, (AD)
Wiring Diagrams Solid State Protection Sys Train-A Connection Diagram
14. 45N2676-3, Rev 1, (AD)
Wiring Diagrams Solid State Protection Sys Train-A Connection Diagram
15. 45N2676-4, Rev 16, (AD)
Wiring Diagrams Solid State Protection Sys Train-A Connection Diagram
16. 45N2676-5, Rev 10, (AD)
Wiring Diagrams Solid State Protection Sys Train-A Connection Diagram
17. 45N2677-1, Rev 5, (AD)
Wiring Diagrams Solid State protection Sys Train-B Connection Diagram
18. 45N2677-2, Rev 6, (AD)
Wiring Diagrams Solid State Protection Sys Train-B Connection Diagram
19. 45N2677-3, Rev 1, (AD)
Wiring Diagrams Solid State Protection Sys Train-B Connection Diagram
20. 45N2677-4, Rev 18, (AD)
Wiring Diagrams Solid State Protection Sys Train-B Connection Diagram
21. 45N2677-5, Rev 9, (AD)
Wiring Diagrams Solid State Protection Sys Train-B Connection Diagram
22. 45N2680-3, Rev 9, (AD)
Wiring Diagrams NSSS Aux Relay Panel 2-R-54 Connection Diagrams
23. 45N2681-3, Rev 11, (AD)
Wiring Diagrams NSSS Aux Relay Panel 2-R-55 Connection Diagrams
24. 2-45B640-79, Rev 0, (CC)
Contact Development of Control and Instrument Switches, 2-M-4
DRA 52361-31, Rev 0 and DRA 52363-53, Rev 0
25. 2-45B640-105, Rev 0, (CC)
Contact Development of Selector Switches and Pushbuttons, 2-M-6
DRA 52362-36, Rev 0 and DRA 52363-58, Rev 0
26. 2-45B640-111, Rev 0, (CC)
Contact Development of Selection Switches and Pushbuttons, 2-M-6

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2.2.1 Drawings (continued)

27. 2-45B640-112, Rev 0, (CC)
Contact Development of Control and Instrument Switches, 2-M-6
28. 2-47A615-0, Rev 1, (CC)
Integrated Computer System Terminations and I/O List
29. 2-47B601-55-1, Rev 0, (CC)
Electrical Instrument Tabulation, Master Isolation Signal Status Panel
Train A
DRA 52453-4, Rev 0
30. 2-47B601-55-2, Rev 0, (CC)
Electrical Instrument Tabulation, Master Isolation Signal Status Panel
Train B
DRA 52453-5, Rev 0
31. 2-47B601-55-70, Rev 1, (CC)
Electrical Instrument Tabulation, Trip Status Light Box 2-XX-55-5
DRA 52352-36, Rev 0 and DRA 53188-7, Rev 0
32. 2-47B601-55-71, Rev 1, (CC)
Electrical Instrument Tabulation, Trip Status Light Box 2-XX-55-6A
33. 2-47B601-55-72, Rev 1, (CC)
Electrical Instrument Tabulation, Trip Status Light Box 2-XX-55-6B

C. Mechanical

None

D. Logic/Control Diagrams

1. 2-47W610-1-1, Rev 4, (CC)
Electrical Control Diagram Main Steam System
2. 2-47W610-1-1A, Rev 3, (CC)
Electrical Control Diagram Main Steam System
3. 2-47W610-3-1, Rev 2, (CC)
Electrical Control Diagram Main Aux Feedwater System
4. 2-47W610-30-1, Rev 1, (CC)
Electrical Control Diagram Containment Ventilation System

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2.2.1 Drawings (continued)

5. 2-47W610-30-1B, Rev 0, (CC)
Electrical Control Diagram Containment Ventilation System
6. 2-47W610-63-1A, Rev 2, (CC)
Electrical Control Diagram Safety Injection System
7. 2-47W610-68-5, Rev 1, (CC)
Electrical Control Diagram Reactor Coolant System
8. 2-47W610-72-1, Rev 3, (CC)
Electrical Control Diagram Containment Spray System
9. 2-47W611-1-1, Rev 1, (CC)
Electrical Logic Diagram Main and Reheat Steam
10. 2-47W611-1-2, Rev 2, (CC)
Electrical Logic Diagram Main and Reheat Steam
11. 2-47W611-3-2, Rev 3, (CC)
Electrical Logic Diagram Feedwater System
12. 2-47W611-3-8, Rev 0, (CC)
Electrical Logic Diagram Feedwater System
13. 2-47W611-63-1, Rev 1, (CC)
Electrical Logic Diagram Safety Injection System
14. 2-47W611-63-2, Rev 1, (CC)
Electrical Logic Diagram Safety Injection System
15. 2-47W611-63-5, Rev 1, (CC)
Electrical Logic Diagram Safety Injection System
16. 2-47W611-72-1, Rev 1, (CC)
Electrical Logic Diagram Containment Spray System
17. 2-47W611-88-1, Rev 1, (CC)
Electrical Logic Diagram Containment Isolation
18. 2-47W611-99-1, Rev 2, (CC)
Electrical Logic Diagram Reactor Protection System

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2.2.1 Drawings (continued)

E. Vendor Drawings

Westinghouse Drawings

1. 2-112361-1082H70-1A, Rev 0, (ANT)
DRA 52328-9, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, Functional Diagram (Safeguards), Sheet 1A
2. 2-112361-1082H70-1B, Rev 0, (ANT)
DRA 52328-10, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, Functional Diagram (Safeguards), Sheet 1B
3. 2-112361-1082H70-1C, Rev 0, (ANT)
DRA 52328-11, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, Functional Diagram (Safeguards), Sheet 1C
4. 2-112361-1082H70-1D, Rev 0, (ANT)
DRA 52328-12, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, Functional Diagram (Safeguards), Sheet 1D
5. 2-54114-1082H70-13A, Rev 0, (ANT)
DRA 52328-27, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, UV Output, Sheet 13A
6. 2-54114-1082H70-13B, Rev 0, (ANT)
DRA 52328-28, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, UV Output, Sheet 13B
7. 2-54114-1082H70-14, Rev 0, (ANT)
DRA 52328-29, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, Containment Spray Mini-Flow, RHR Interlock & Lo-Lo TAVG Sheet 14
8. 2-54114-1082H70-15, Rev 0, (ANT)
DRA 52328-30, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System, High Steam Pressure Rate, Sheet 15

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9. 2-54114-1082H70-16, Rev 0, (ANT)
DRA 52328-31, Rev 0
Four Loop, Four Bus—WAT/WBT Solid State Protection System,
Low Steamline Pressure, Sheet 16
10. 2-54114-1082H70-17, Rev 0, (ANT)
DRA 52328-32, Rev 0
Four Loop, Four Bus-WAT/WET Solid State Protection System,
Pressurizer Pressure Safeguards, Sheet 17
11. 2-54114-1082H70-18, Rev 0, (ANT)
DRA 52328-33, Rev 0
Four Loop, Four Bus-WAT/WET Solid State Protection System,
Steam Gen Low Low Water Level, Sheet 18
12. 2-54114-1082H70-19 , Rev 0, (ANT)
DRA 52328-34, Rev 0
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Containment Pressure, Sheet 19
13. 2-54114-1082H70-20A, Rev 0, (ANT)
DRA 52328-35, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Safety Injection, Sheet 20A
14. 2-54114-1082H70-20B, Rev 0, (ANT)
DRA 52328-36, Rev 0
Four Loop, Four Bus-WAT/WET Solid State Protection System,
Safety Injection, Sheet 20B
15. 2-54114-1082H70-21A, Rev 0, (ANT)
DRA 52328-37, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Feedwater Control, Sheet 21A
16. 2-54114-1082H70-21B, Rev 0, (ANT)
DRA 52328-38, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Feedwater Control, Sheet 21B
17. 2-54114-1082H70-26B, Rev 0, (ANT)
DRA 52328-52, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
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18. 2-54114-1082H70-27A, Rev 0, (ANT)
DRA 52328-54, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Output Relays, Sheet 27A
19. 2-54114-1082H70-27B, Rev 0, (ANT)
DRA 52328-55, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Output Relays, Sheet 27B
20. 2-54114-1082H70-27C, Rev 0, (ANT)
DRA 52328-56, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Output Relays, Sheet 27C
21. 2-54114-1082H70-27D, Rev 0, (ANT)
DRA 52328-57, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Output Relays, Sheet 27D
22. 2-54114-1082H70-27E, Rev 0, (ANT)
DRA 52328-58, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Output Relays, Sheet 27E
23. 2-54114-1082H70-28, Rev 0, (ANT)
DRA 52328-59, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
DC Power Distr., Sheet 28
24. 2-54114-1082H70-30C, Rev 0, (ANT)
DRA 52328-63, Rev 0
Four Loop, Four Bus-WAT/WBT Solid State Protection System,
Main Steam Valve Vault Level, Sheet 30C
25. 2-54114-1-7246D11-3, Rev 0, (ANT)
DRA 52328-760, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2, Solid
State Protection System Interconnection Diagrams,
Sheet 3

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2.2.1 Drawings (continued)

26. 2-54114-1-7246D11-14, Rev 0, (ANT)
DRA 52328-771, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 14
27. 2-54114-1-7246D11-15, Rev 0, (ANT)
DRA 52328-772, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 15
28. 2-54114-1-7246D11-16, Rev 0, (ANT)
DRA 52328-773, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 16
29. 2-54114-1-7246D11-17, Rev 0, (ANT)
DRA 52328-774, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 17
30. 2-54114-1-7246D11-18, Rev 0, (ANT)
DRA 52328-775, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 18
31. 2-54114-1-7246D11-19, Rev 0, (ANT)
DRA 52328-776, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 19
32. 2-54114-1-7246D11-20, Rev 0, (ANT)
DRA 52328-777, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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2.2.1 Drawings (continued)

33. 2-54114-1-7246D11-21, Rev 0, (ANT)
DRA 52328-778, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 21
34. 2-54114-1-7246D11-22, Rev 0, (ANT)
DRA 52328-779, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 22
35. 2-54114-1-7246D11-23, Rev 0, (ANT)
DRA 52328-780, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 23
36. 2-54114-1-7246D11-24, Rev 0, (ANT)
DRA 52328-781, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 24
37. 2-54114-1-7246D11-25, Rev 0, (ANT)
DRA 52328-782, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 25
38. 2-54114-1-7246D11-26, Rev 0, (ANT)
DRA 52328-783, Rev 0
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 26
39. 2-54114-1-7246D11-27, Rev 0, (ANT)
DRA 52328-784, Rev 0, and DRA 52384-32, Rev 1
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2.2.1 Drawings (continued)

40. 2-54114-1-7246D11-29, Rev 0, (ANT)
DRA 52328-786, Rev 0 and DRA 52384-02, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 29
41. 2-54114-1-7246D11-30, Rev 0, (ANT)
DRA 52328-787, Rev 0 and DRA 52384-03, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 30
42. 2-54114-1-7246D11-31, Rev 0, (ANT)
DRA 52328-788, Rev 0 and DRA 52384-04, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 31
43. 2-54114-1-7246D11-33, Rev 0, (ANT)
DRA 52328-790, Rev 0 and DRA 52384-06, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 33
44. 2-54114-1-7246D11-36, Rev 0, (ANT)
DRA 52328-793, Rev 0 and DRA 52384-09, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 36
45. 2-54114-1-7246D11-38, Rev 0, (ANT)
DRA 52328-795, Rev 0 and DRA 52384-11, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 38
46. 2-54114-1-7246D11-40, Rev 0, (ANT)
DRA 52328-797, Rev 0 and DRA 52384-31, Rev 1
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2.2.1 Drawings (continued)

47. 2-54114-1-7246D11-41, Rev 1, (ANT)
DRA 52328-798, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 41
48. 2-54114-1-7246D11-45, Rev 1, (ANT)
DRA 52328-802, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 45
49. 2-54114-1-7246D11-46, Rev 0, (ANT)
DRA 52328-803, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 47
50. 2-54114-1-7246D11-47, Rev 0, (ANT)
DRA 52328-804, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 48
51. 2-54114-1-7246D11-48, Rev 0, (ANT)
DRA 52328-805, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
Solid State Protection System Interconnection Diagrams,
Sheet 49
52. 2-54114-1-7246D11-52, Rev 0, (ANT)
DRA 52328-809, Rev 1
Tennessee Valley Authority, Watts Bar Nuclear Plant Units 1 & 2,
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Sheet 53
53. 2-54114-1-7246D11-56, Rev 0, (ANT)
DRA 52328-813, Rev 0
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2.2.1 Drawings (continued)

F. Annunciator Drawings

1. 2-45B655-E3C, Rev 0, (CC)
2-XA-55-3C Lamp Box Engraving
2. 2-45B655-E4A, Rev 0, (CC)
2-XA-55-4A Lamp Box Engraving
3. 2-45B655-E4C, Rev 0, (CC)
2-XA-55-4C Lamp Box Engraving
4. 2-45B655-E4D, Rev 0, (CC)
2-XA-55-4D Lamp Box Engraving
5. 2-45B655-E6B, Rev 0, (CC)
2-XA-55-6B Lamp Box Engraving
6. 2-45B655-E6C, Rev 0, (CC)
2-XA-55-6C Lamp Box Engraving
7. 2-45W600-55-8, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 3C
8. 2-45W600-55-9, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 4A
9. 2-45W600-55-11, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 4C
10. 2-45W600-55-12, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 4D
11. 2-45W600-55-47, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 6B and 6E
12. 2-45W600-55-18, Rev 0, (CC)
Wiring Diagram Annunciator System Key Diagram Panel 6C and 6F

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3.0 PRECAUTIONS AND LIMITATIONS

- A. Standard precautions shall be followed for working around energized electrical equipment in accordance with TVA Safety Manual Procedure 1021.
- B. Steps may be repeated if all components cannot be tested in a step. However, if the test has been exited, prerequisite steps must be re-verified and a Chronological Test Log (CTL) entry made.
- C. Discrepancies between component ID tags and the description in a procedure/instruction if the UNIDs match, exclusive of place keeping zeros and train designators (e.g.; 2-HS-31-468 vs. 2-HS-031-0468) and the noun description is sufficient to identify the component. This condition does not require a TDN in accordance SMP-14.0. If the component label needs to be changed, a Tag Request Form (TR Card) should be processed in accordance with TI-12.14. Make an entry in the CTL and continue testing.
- D. All wires removed/lifted from a terminal shall be identified and taped or covered with an insulator to prevent personnel or equipment hazard and possible spurious initiations. The wires should be grouped together and labeled with the work implementing document number that required them to be lifted if left unattended.
- E. All open problems are to be tracked by a corrective action document and entered on the appropriate system punchlist.
- F. Problems identified during the test shall be annotated on the Chronological Test Log (CTL) from SMP-9.0 including a description of the problem, the procedure step when/where the problem was identified, corrective action steps taken to resolve the problem, and the number of the corrective action document, if one was required.
- G. Observe all Radiation Protection (RP) requirements when working in or near radiological areas.
- H. Ensure there are no adverse effects to the operation of Unit 1 structures, systems, or components.
- I. Test personnel will coordinate with Unit 1 Operations when manipulating Unit 1 equipment.

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3.0 PRECAUTIONS AND LIMITATIONS (continued)

- J. Test Methodology utilized throughout this procedure requires Slave Relay Contact status be verified once prior to an actuation, once after the actuation, and once the actuation has been reset. This is accomplished the first time the particular relay remains actuated a sufficient amount of time to acquire the data. Subsequent Slave Relay actuations are verified visually as defined in Subsection 3.0L.
- K. The status of contacts will be verified using a multimeter at terminal blocks and/or across lifted leads, throughout this procedure. The state of a contact may be determined by a continuity check at the indicated terminals. A reading of less than 5 ohms will indicate a closed contact and a reading greater than 5 ohms will indicate an open contact. Contact state may also be determined by measuring the presence of Voltage (open circuit) or NO Voltage (closed circuit)
- L. Unless otherwise noted, Slave Relay actuation will be verified by observing the relay contactor armature position as follows:

Relay Actuated:

Non-latching relays - the center bar is pulled in

Latching relays - the Opaque/White plunger is pulled in

Relay Reset:

Non-latching relays - the center bar is flush with the relay face

Latching relays - the Opaque/White plunger is protruding from the relay face.

- M. The UV Coil Voltage meter (M501) will be used to verify Reactor Trip status. A reading of 0 VDC (≤ 5 VDC) will indicate "Reactor tripped" status and a reading of 42 VDC (≥ 35 VDC) will indicate "Reactor NOT tripped" status. The UV Coil Voltage Meter (M501) will also be used to verify Safety Injection Reset Timer Operation. The meter is used strictly as a GO/NO-GO indication, NOT a quantitative measuring device.
- N. During testing of both trains, if the Trip Status Lights under test flash at approximately one cycle per second, investigate the problem.
- O. During the conduct of this test, performance of all NSSS calibrations should be coordinated with the Test Director.
- P. All equipment specified in this procedure will be Unit 2, unless designated otherwise.

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3.0 PRECAUTIONS AND LIMITATIONS (continued)

- Q. Table 17, Slave Relays and Associated Function, describes the individual Slave Relay (K600 Series) actuation functions.
- R. Table 1, Unit 1 & 2 Interfaces, list interfaces with Unit 1 and the configuration that must be verified prior to the start of this test.

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4.0 PREREQUISITE ACTIONS

NOTE

Prerequisite steps may be performed in any order unless otherwise stated and should be completed as close in time as practicable to the start of the instruction subsection to which they apply.

4.1 Preliminary Actions

- [1] **VERIFY** the test/performance copy of this Preoperational Test Instruction (PTI) is the current revision and as needed, each test person assisting in this test has the current revision including any change notices. _____
- [2] **OBTAIN** copies of the applicable forms from the latest revision of SMP-9.0, **AND**
ATTACH to this PTI for use during the performance of this PTI. _____
- [3] **ENSURE** changes to the references listed on “Drawing Change and Instruction Review”, Appendix A, have been reviewed, and determined NOT to adversely affect the test performance. _____
- [4] **VERIFY** current revisions and change paper for referenced drawings has been reviewed and determined NOT to adversely affect the test performance, **AND**
ATTACH documentation of current drawing revision numbers and change paper that were reviewed to the data package. _____
- [5] **EVALUATE** open items in Watts Bar Integrated Task Equipment List (WITEL) **AND**
ENSURE that they will NOT adversely affect the test performance.
 - A. SubSection 6.1 _____
 - B. SubSection 6.2 _____

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4.1 Preliminary Actions (continued)

- C. SubSection 6.3 _____
- D. SubSection 6.4 _____
- E. SubSection 6.5 _____
- F. SubSection 6.6 _____
- G. SubSection 6.7 _____
- H. SubSection 6.8 _____
- I. SubSection 6.9 _____
- J. SubSection 6.10 _____
- K. SubSection 6.11 _____
- L. SubSection 6.12 _____
- M. SubSection 6.13 _____
- N. SubSection 6.14 _____
- O. SubSection 6.15 _____
- P. SubSection 6.16 _____
- Q. SubSection 6.17 _____
- R. SubSection 6.18 _____

[6] **ENSURE** required Component Testing has been completed prior to start of test.

- A. SubSection 6.1 _____
- B. SubSection 6.2 _____
- C. SubSection 6.3 _____
- D. SubSection 6.4 _____
- E. SubSection 6.5 _____
- F. SubSection 6.6 _____

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4.1 Preliminary Actions (continued)

- G. SubSection 6.7 _____
- H. SubSection 6.8 _____
- I. SubSection 6.9 _____
- J. SubSection 6.10 _____
- K. SubSection 6.11 _____
- L. SubSection 6.12 _____
- M. SubSection 6.13 _____
- N. SubSection 6.14 _____
- O. SubSection 6.15 _____
- P. SubSection 6.16 _____
- Q. SubSection 6.17 _____
- R. SubSection 6.18 _____

- [7] **ENSURE** outstanding Design Change Notices (DCN's), Engineering Document Construction Releases (EDCR's) or Temporary Alterations (TA's) do NOT adversely impact testing, **AND**

ATTACH documentation of DCN's, EDCR's and TA's that were reviewed to the data package. _____

- [8] **ENSURE** a review of outstanding Clearances has been coordinated with Operations for impact to the test performance, **AND**

RECORD in Appendix B, Temporary Conditions Log if required. _____

- [9] **VERIFY** Measuring and Test Equipment (M&TE) calibration due dates will support the completion of this test performance. _____

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4.1 Preliminary Actions (continued)

| NOTES | |
|--------------|---|
| 1) | Any Annunciator points associated with 2-MUX-55-12 and 2-MUX-55-13 ONLY have master switches at the bottom of each terminal strip. |
| 2) | All points associated with 2-TBK-55-25, 2-TBK-55-26, 2-TBK-55-27, and 2-TBK-55-28 will not have individual switches or a master switch. |

[10] **ENSURE** System 55, Annunciator and Sequential Events Recording System applicable TBK switches are ON, the applicable Master Switches are ON, and window software input (s) are ENABLED for the following Annunciator windows.

- 2-XA-55-3C-57C (Subsection 6.16) _____
- 2-XA-55-3C-58C (Subsection 6.11) _____
- 2-XA-55-4A-57C (Subsection 6.16) _____
- 2-XA-55-4A-68A (Subsection 6.10) _____
- 2-XA-55-4A-68B
(Subsections 6.1, 6.4, 6.6, 6.7, 6.8, 6.17) _____
- 2-XA-55-4A-68D (Subsection 6.16) _____
- 2-XA-55-4A-69A (Subsections 6.1, 6.4, 6.8, 6.17) _____
- 2-XA-55-4A-69B
(Subsections 6.1, 6.4, 6.5, 6.7, 6.8, 6.17) _____
- 2-XA-55-4A-69D (Subsection 6.16) _____
- 2-XA-55-4A-70A
(Subsections 6.1, 6.5, 6.7, 6.8, 6.9, 6.11, 6.17) _____
- 2-XA-55-4A-70B
(Subsections 6.1, 6.5, 6.7, 6.8, 6.17) _____
- 2-XA-55-4C-71D (Subsection 6.14) _____
- 2-XA-55-4C-72D (Subsection 6.14) _____
- 2-XA-55-4C-73D (Subsection 6.14) _____

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4.1 Preliminary Actions (continued)

- 2-XA-55-4C-74D (Subsection 6.14) _____
- 2-XA-55-4D-76G (Subsections 6.1, 6.5, 6.7, 6.8, 6.17) _____
- 2-XA-55-4D-77G
(Subsections 6.1, 6.4, 6.5, 6.7, 6.8, 6.17) _____
- 2-XA-55-4D-78G
(Subsections 6.1, 6.2, 6.5, 6.7, 6.8, 6.17, 6.18) _____
- 2-XA-55-4D-79G
(Subsections 6.1, 6.4, 6.5, 6.7, 6.8, 6.17) _____
- 2-XA-55-6B-116A (Subsection 6.8) _____
- 2-XA-55-6B-116B (Subsections 6.11, 6.14) _____
- 2-XA-55-6B-117A (Subsection 6.8) _____
- 2-XA-55-6B-117B (Subsections 6.11, 6.14) _____
- 2-XA-55-6B-118A (Subsection 6.8) _____
- 2-XA-55-6B-118B (Subsections 6.11, 6.14) _____
- 2-XA-55-6B-119A (Subsection 6.8) _____
- 2-XA-55-6B-119B (Subsections 6.11, 6.14) _____
- 2-XA-55-6B-120A (Subsection 6.6) _____
- 2-XA-55-6B-120C (Subsections 6.4, 6.6) _____
- 2-XA-55-6B-121A (Subsection 6.6) _____
- 2-XA-55-6B-122A (Subsection 6.6) _____
- 2-XA-55-6B-123A (Subsection 6.6) _____
- 2-XA-55-6B-123E (Subsection 6.10) _____
- 2-XA-55-6C-124D (Subsection 6.5) _____
- 2-XA-55-6C-125A (Subsections 6.2, 6.3, 6.18) _____

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4.1 Preliminary Actions (continued)

- 2-XA-55-6C-125B (Subsections 6.2, 6.3, 6.18) _____
 - 2-XA-55-6C-125C (Subsections 6.2, 6.3, 6.18) _____
 - 2-XA-55-6C-125D (Subsection 6.7) _____
 - 2-XA-55-6C-126C (Subsection 6.12) _____
 - 2-XA-55-6C-127E (Subsection 6.12) _____
- [11] **ENSURE** components contained within the boundaries of this test are under the jurisdictional control of Preoperational Startup Engineering (PSE) or Shift Manager (SM). _____
- [12] **PERFORM** a pretest walkdown on equipment to be tested to ensure no conditions exist that will impact test performance. _____
- [13] **CONDUCT** a pretest briefing with Test and Operations personnel in accordance with SMP-9.0. _____
- [14] **ENSURE** that communications are available for areas where testing is to be conducted. _____
- [15] **ENSURE** Nuclear Instrumentation System, Solid State Protection System, and Process Protection System (Eagle 21) have been energized for at least 4 hours prior to beginning this test. _____

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4.1 Preliminary Actions (continued)

[16] **ENSURE** that the following systems and equipment are in service or functional to the extent necessary to perform this test:

A. System 99, Reactor Protection System (Solid State Protection System) _____

B. System 92, Nuclear Instrumentation System _____

C. System 235, 120VAC Vital Power System _____

D. System 55, Annunciator and Sequential Events Recording System _____

E. System 261, Process Computer _____

F. System 236, 125 VDC Vital Power System _____

[17] **ENSURE** all Unit 1 & 2 interfaces in Table 1 are verified prior to starting this test. _____

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4.2 Special Tools, Measuring and Test Equipment, Parts, and Supplies

A. The following M&TE is available and within their calibration due dates:

1. One VOM or DMM to monitor relay contact status
0-500 VAC-for OPEN/CLOSED circuit indication
0-500 VDC-for OPEN/CLOSED circuit indication
0-infinity (∞) Ohms-for continuity only
2. (2) Stopwatches
Minimum Range : 100 Seconds
Required Accuracy: $\pm 1.5\%$ Sec/Hr

B. The following are available:

1. A minimum of 12 switched test jumpers.
2. A minimum of 24 test jumpers.
3. A minimum of one Eagle 21 Man Machine Interface (MMI) Test Cart is available for use during this test.
4. Two Ramp Generators 4-20ma output.

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4.3 Field Preparations

- [1] **PERFORM** the Breaker Lineup listed in Table 2. _____
- [2] **ENSURE** the points listed in Table 5, Integrated Computer System Point Verification Log, are available, are in scan, and match the description for each status. _____
- [3] **VERIFY** plastic screws and washers are installed at the SSPS field terminals listed on Table 6. _____
- [4] **VERIFY** the K600 Relay outputs are hard-landed at the SSPS field terminals listed on Table 7. _____
- [5] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-1, in BYPASS:
 - A. F-414 RCS FLOW LP1 _____
 - B. F-424 RCS FLOW LP2 _____
 - C. F-434 RCS FLOW LP3 _____
 - D. F-444 RCS FLOW LP4 _____
 - E. P-455 PZR PRESSURE _____
 - F. L-459 PZR LEVEL _____
- [6] **ENSURE** PS/455B, (PZR PRESS) Manual Block of SI Ch1 bistable, at 2-R-1, in TRIP. _____
- [7] **ENSURE** Eagle 21 Protection Channel T-411/412 DTTA LP1, at 2-R-2, in BYPASS. _____

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4.3 Field Preparations (continued)

[8] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-3, in BYPASS:

A. P-514 STM PRESS LP1 _____

B. P-524 STM PRESS LP2 _____

[9] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-4, in BYPASS:

A. P-505 TURB IMP PR _____

B. P-534 STM PRESS LP3 _____

C. P-544 STM PRESS LP4 _____

[10] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-5, in BYPASS:

A. F-415 RCS FLOW LP1 _____

B. F-425 RCS FLOW LP2 _____

C. F-435 RCS FLOW LP3 _____

D. F-445 RCS FLOW LP4 _____

E. L-519-549 TTD _____

F. L-519 SG LEVEL LP1 _____

G. L-529 SG LEVEL LP2 _____

H. L-539 SG LEVEL LP3 _____

I. L-549 SG LEVEL LP4 _____

J. P-456 PZR PRESSURE _____

K. L-460 PZR LEVEL _____

[11] **ENSURE** PS/456B, (PZR PRESS) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in TRIP. _____

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4.3 Field Preparations (continued)

- [12] **ENSURE** Eagle 21 Protection Channel, T-421/422 DTTA LP2, at 2-R-6, in BYPASS. _____
- [13] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-7, in BYPASS:
- A. P-515 STM PRESS LP1 _____
- B. P-535 STM PRESS LP3 _____
- [14] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-8, in BYPASS:
- A. P-506 TURB IMP PR _____
- B. P-525 STM PRESS LP2 _____
- C. P-545 STM PRESS LP4 _____
- [15] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-9, in BYPASS:
- A. F-416 RCS FLOW LP1 _____
- B. F-426 RCS FLOW LP2 _____
- C. F-436 RCS FLOW LP3 _____
- D. F-446 RCS FLOW LP4 _____
- E. P-457 PZR PRESSURE _____
- F. L-461 PZR-LEVEL _____
- [16] **ENSURE** PS/457B (PZR PRESS) Enable Manual Block of SI Ch3 bistable, at 2-R-9, in TRIP. _____
- [17] **ENSURE** Eagle 21 Protection Channel T-431/432 DTTA LP3, at 2-R-10, in BYPASS. _____

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4.3 Field Preparations (continued)

[18] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-11, in BYPASS:

A. L-518, 528, 538, and 548 TTD _____

B. L-518 SG LEVEL LP1 _____

C. L-528 SG LEVEL LP2 _____

D. L-538 SG LEVEL LP3 _____

E. L-548 SG LEVEL LP4 _____

F. P-526 STM PRESS LP2 _____

G. P-536 STM PRESS LP3 _____

[19] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-12, in BYPASS:

A. L-517-547 TTD _____

B. L-517 SG LEVEL LP1 _____

C. L-527 SG LEVEL LP2 _____

D. L-537 SG LEVEL LP3 _____

E. L-547 SG LEVEL LP4 _____

F. P-516 STM PRESS LP1 _____

G. P-546 STM PRESS LP4 _____

[20] **ENSURE** Eagle 21 Protection Channel T-441/442 DTTA LP4, at 2-R-13, in BYPASS. _____

[21] **ENSURE** Eagle 21 Protection Channel P-458 PZR PRESSURE, at 2-R-28, in BYPASS. _____

Date _____

4.3 Field Preparations (continued)

NOTE

ENSURE Steps 4.3[1] through 4.3[21] are performed prior to Steps 4.3[22] and 4.3[23].

- | | | |
|------|--|-------|
| [22] | ENSURE the SSPS lineup/ verifications in Table 3. | _____ |
| [23] | ENSURE the Nuclear Instrumentation System (NIS) lineup/ verification in Table 4. | _____ |
| [24] | ENSURE no General Warning alarms are present on either SSPS Train A (2-R-47) or Train B (2-R-50). | _____ |
| [25] | LIFT the field wires, to defeat the Reactor Trip Breakers P-4 Signal from the following locations: | |
| | A. Panel 2-R-47, White wire for Cable 2PS167A on Terminal Block TB506, Terminal Point 5 | _____ |
| | | _____ |
| | | CV |
| | B. Panel 2-R-50, White wire for Cable 2PS187B on Terminal Block TB506, Terminal Point 5 | _____ |
| | | _____ |
| | | CV |
| [26] | INSTALL OPEN Switched Jumpers (P-4 Test Switch), to simulate Reactor NOT TRIPPED, in the following locations: | |
| | A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. | _____ |
| | | _____ |
| | | CV |
| | B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. | _____ |
| | | _____ |
| | | CV |

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4.3 Field Preparations (continued)

[27] **LIFT** the field wires, to simulate No Containment Hi Radiation in the following locations:

A. Panel 2-R-47, White wire for cable 2PS200A on Terminal Block TB506, Terminal Point 2.

CV

B. Panel 2-R-50, White wire for Cable 2PS 205B on Terminal Block TB506, Terminal Point 2.

CV

[28] **INSTALL** OPEN Switched Jumpers to simulate No Containment Hi Radiation in the following locations:

A. TB506 Terminal Points 1 and 2 in 2-R-47.

CV

B. TB506 Terminal Points 1 and 2 in 2-R-50.

CV

[29] **INSTALL** CLOSED switched jumpers (to simulate Turbine Stop Valves OPEN) in the following locations:

Train A (Input Cabinet 2-R-46)

A. ZS-47-28 TB109 across Terminals 3 & 4.

CV

B. ZS-47-30 TB209 across Terminals 3 & 4.

CV

| | | |
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4.3 Field Preparations (continued)

C. ZS-47-32 TB308 across Terminals 3 & 4. _____
CV

D. ZS-47-34 TB407 across Terminals 3 & 4. _____
CV

Train B (Input Cabinet 2-R-49)

E. ZS-47-28 TB109 across Terminals 3 & 4. _____
CV

F. ZS-47-30 TB209 across Terminals 3 & 4. _____
CV

G. ZS-47-32 TB-308 across Terminals 3 & 4. _____
CV

H. ZS-47-34 TB407 across Terminals 3 & 4. _____
CV

[30] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure) across Terminal Points TA-1 (10A) and TA-2 (10902A) in 2-JB-290-1666-D. _____
CV

[31] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure) across Terminal Points TA-5 (10B) and TA-6 (10902B) in 2-JB-290-1666-D. _____
CV

| | | |
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4.3 Field Preparations (continued)

- [32] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure) across Terminal Points TA-1 (20A) and TA-2 (20902A) in 2-JB-290-1669-E.

_____ CV

- [33] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure) across Terminal Points TA-5 (20B) and TA-6 (20902B) in 2-JB-290-1669-E.

_____ CV

- [34] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure) across Terminal Points TA-1 (30A) and TA-2 (30802A) in 2-JB-290-1668-F.

_____ CV

- [35] **INSTALL** a jumper (to simulate Normal Auto Stop Oil pressure across Terminal Points TA-5 (30B) and TA-6 (30802B) in 2-JB-290-1668-F.

_____ CV

- [36] **INSTALL** a jumper (to simulate RCP 1 Bus normal voltage) across Terminal Points TA-7 (10907A1) and TA-8 (10908A) in 2-JB-290-3404-D.

_____ CV

- [37] **INSTALL** a jumper (to simulate RCP 1 Bus normal voltage) across Terminal Points TA-10 (10907B1) and TA-11 (10908B) in 2-JB-290-3404-D.

_____ CV

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4.3 Field Preparations (continued)

- [38] **INSTALL** a jumper (to simulate RCP 2 Bus normal voltage) across Terminal Points TA-7 (20907A1) and TA-8 (20908A) in 2-JB-290-3405-E.

CV
- [39] **INSTALL** a jumper (to simulate RCP 2 Bus normal voltage) across Terminal Points TA-10 (20907B1) and TA-11 (20908B) in 2-JB-290-3405-E.

CV
- [40] **INSTALL** a jumper (to simulate RCP 3 Bus normal voltage) across Terminal Points TA-7 (30807A1) and TA-8 (30808A) in 2-JB-290-3406-F.

CV
- [41] **INSTALL** a jumper (to simulate RCP 3 Bus normal voltage) across Terminal Points TA-10 (30807B1) and TA-11 (30808B) in 2-JB-290-3406-F.

CV
- [42] **INSTALL** a jumper (to simulate RCP 4 Bus normal voltage) across Terminal Points TA-7 (40707A1) and TA-8 (40708A) in 2-JB-290-3407-G.

CV
- [43] **INSTALL** a jumper (to simulate RCP 4 Bus normal voltage) across Terminal Points TA-10 (40707B1) and TA-11 (40708B) in 2-JB-290-3407-G.

CV

| | | |
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4.3 Field Preparations (continued)

- [44] **INSTALL** a jumper (to simulate RCP 1 Bus Normal Frequency) across Terminal Points TA-1 (10811A1) and TA-2 (10812A) in 2-JB-290-3404-D. _____
CV
- [45] **INSTALL** a jumper (to simulate RCP 1 Bus Normal Frequency) across Terminal Points TA-4 (10811B1) and TA-5 (10812B) in 2-JB-290-3404-D. _____
CV
- [46] **INSTALL** a jumper (to simulate RCP 2 Bus Normal Frequency) across Terminal Points TA-1 (20811A1) and TA-2 (20812A) in 2-JB-290-3405-E. _____
CV
- [47] **INSTALL** a jumper (to simulate RCP 2 Bus Normal Frequency) across Terminal Points TA-4 (20811B1) and TA-5 (20812B) in 2-JB-290-3405-E. _____
CV
- [48] **INSTALL** a jumper (to simulate RCP 3 Bus Normal, Frequency) across Terminal Points TA-1 (30711A1) and TA-2 (30712A) in 2-JB-290-3406-F. _____
CV
- [49] **INSTALL** a jumper (to simulate RCP 3 Bus Normal Frequency) across Terminal Points TA-4 (30711B1) and TA-5 (30712B) in 2-JB-290-3406-F. _____
CV

| | | |
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4.3 Field Preparations (continued)

[50] **INSTALL** a jumper (to simulate RCP 4 Bus Normal Frequency) across Terminal Points TA-1 (40903A1) and TA-2 (40904A) in 2-JB-290-3407-G.

CV

[51] **INSTALL** a jumper (to simulate RCP 4 Bus Normal Frequency) across Terminal Points TA-4 (40903B1) and TA-5 (40904B) in 2-JB-290-3407-G.

CV

[52] **ENSURE** the following RCP UV & UF Test Switches in NORMAL:

A. 2-HS-68-343 at 2-JB-290-3404-D.

B. 2-HS-68-344 at 2-JB-290-3404-D.

C. 2-HS-68-345 at 2-JB-290-3405-E.

D. 2-HS-68-346 at 2-JB-290-3405-E.

E. 2-HS-68-347 at 2-JB-290-3406-F.

F. 2-HS-68-348 at 2-JB-290-3406-F.

G. 2-HS-68-349 at 2-JB-290-3407-G.

H. 2-HS-68-350 at 2-JB-290-3407-G.

| | | |
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4.3 Field Preparations (continued)

[53] **ENSURE** the following, MAIN STEAM VALVE VAULT FLOOD LEVEL, Test Switches, in NORMAL:
(Subsection 6.16)

A. 2-HS-3-402-D at 2-JB-290-8257-D. _____

B. 2-HS-3-405-D at 2-JB-290-8257-D. _____

C. 2-HS-3-403-F at 2-JB-290-8260-F. _____

D. 2-HS-3-406-F at 2-JB-290-8260-F. _____

E. 2-HS-3-404-G at 2-JB-290-8259-G. _____

F. 2-HS-3-407-G at 2-JB-290-8259-G. _____

[54] **ENSURE** the following, AUTO STOP OIL PRESSURE LOW Test Switches, in NORMAL:

A. 2-HS-47-73 at 2-JB-290-1666-D. _____

B. 2-HS-47-74 at 2-JB-290-1669-E. _____

C. 2-HS-47-75 at 2-JB-290-1668-F. _____

| | | |
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4.4 Approval and Notifications

- [1] Prior to the start of this test, **OBTAIN** permission of the Preoperational Startup Manager to start the test.

_____ Date

Preoperational Startup Manager

- [2] Prior to the start of the test, **OBTAIN** the Unit 2 US/SRO or Shift Manager (SM) authorization.

_____ Date

US/SRO/SM

| | | |
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5.0 ACCEPTANCE CRITERIA

- [1] The Engineered Safety Features Actuation System (ESFAS) functions in response to logic signals in accordance with the design requirements as described in FSAR Sections 7.2 and 7.3, and design drawings as follows:
 - [1.1] P-4 Permissive (Reactor Trip)
 - A. P-4 blocks the automatic actuation or reactivation of Safety Injection (Steps 6.7[39], 6.7[42], 6.7[50], 6.7[53])
 - B. Absence of P-4 defeats the block of the automatic or reactivation of Safety Injection (Steps 6.7[45], 6.7[55])
 - C. P-4 seals in Feedwater Isolation on Safety Injection (Steps 6.7[40], 6.7[51])
 - D. P-4 seals in Feedwater isolation on Hi-Hi Steam Generator Level (Steps 6.14[66], 6.14[67], 6.14[70])
 - E. P-4 seals in Feedwater Isolation on Main Steam Vault High Flood Level (Step 6.16[133])
 - [1.2] P-11 Permissive (Pressurizer Low Pressure).
 - A. P-11 Permissive will be available when any two out of three Pressurizer Pressure Channels are below the P-11 setpoint (Steps 6.4[27], 6.4[35], 6.4[41])
 - B. Pressurizer Low Pressure SI Block can be activated when 2-HS-63-136A LO PZR PRESS SI BLOCK P-11 for Train A, or 2-HS-63-136B LO PZR PRESS SI BLOCK P-11 for Train B, are placed in BLOCK with the P-11 Permissive present (Step 6.4[53], 6.4[54])
 - C. Main Steamline Low Pressure SI Block can be activated when 2-HS-63-135A LO STEAM PRESS SI BLOCK for Train A, or 2-HS-63-135B, LO STEAM PRESS SI: BLOCK for Train B, are placed in BLOCK with the P-11 Permissive present (Steps 6.4[90], 6.4[94])

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5.0 ACCEPTANCE CRITERIA (continued)

- D. Signal can be activated when 2-HS-63-135A LO STEAM PRESS SI BLOCK for Train A, or 2-HS-63-135B LO STEAM PRESS SI BLOCK for Train B, are placed in BLOCK with the P-11 Permissive present (Steps 6.4[107])
- E. With two out of any three Pressurizer Pressure Channels above the P-11 setpoint, Slave Relay 2-RLY-99-K628 is de-energized (Steps 6.4[9], 6.4[15], 6.4[21])

[1.3] P-12 permissive (Lo-Lo Tavg)

- A. P-12 Permissive will be available when any two out of four Tavg Channels are below the Lo-Lo setpoint (Steps 6.10[29], 6.10[30], 6.10[35], 6.10[39], 6.10[43], 6.10[47], 6.10[51])
- B. Slave Relay 2-RLY-99-K631 will be actuated when P-12 is available (Steps 6.10[29], 6.10[30], 6.10[35], 6.10[39], 6.10[43], 6.10[47], 6.10[51])

[1.4] P-14 Permissive (Hi-Hi Steam Generator Level)

- A. P-14 Permissive will be available when any two out of three Channels on any one Steam Generator are actuated (Steps 6.14[60], 6.14[74], 6.14[81], 6.14[88], 6.14[95], 6.14[102], 6.14[109], 6.14[116], 6.14[123], 6.14[130], 6.14[137], 6.14[144])
- B. Slave Relays 2-RLY-99-K620, 2-RLY-99-K621, 2-RLY-99-K649 are actuated when P-14 is available (Steps 6.14[60], 6.14[74], 6.14[81], 6.14[88], 6.14[95], 6.14[102], 6.14[109], 6.14[116], 6.14[123], 6.14[130], 6.14[137], 6.14[144])

| | | |
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5.0 ACCEPTANCE CRITERIA (continued)

[1.5] Manual Safety Injection

- A. Manual Safety Injection from either Manual SI Handswitch 2-HS-63-133A or 2-HS-63-133B will actuate the following relays: (Steps 6.1[31], 6.1[32], 6.17[33], 6.17[34])

| | |
|---------------|---------------|
| 2-RLY-99-K601 | 2-RLY-99-K611 |
| 2-RLY-99-K602 | 2-RLY-99-K612 |
| 2-RLY-99-K603 | 2-RLY-99-K613 |
| 2-RLY-99-K604 | 2-RLY-99-K614 |
| 2-RLY-99-K605 | 2-RLY-99-K615 |
| 2-RLY-99-K606 | 2-RLY-99-K621 |
| 2-RLY-99-K607 | 2-RLY-99-K622 |
| 2-RLY-99-K608 | 2-RLY-99-K630 |
| 2-RLY-99-K609 | 2-RLY-99-K647 |
| 2-RLY-99-K610 | |

- B. Safety Injection for Train A can only be reset by depressing 2-HS-63-134A SI RESET TR-A Pushbutton after Safety Injection Reset Timer A has timed out (90 ± 10 seconds) with no SI Actuation Signal present (Step 6.1[14], 6.1[16], 6.1[57])
- C. Safety Injection for Train B can only be reset by depressing 2-HS-63-134B SI RESET TR-B Pushbutton after Safety Injection Reset Timer B has timed out (90 ± 10 seconds) with no SI Actuation Signal present (Step 6.17[19], 6.17[21], 6.17[56])

| | | |
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5.0 ACCEPTANCE CRITERIA (continued)

- [1.6] Manual Containment Isolation Phase B/Containment Spray/Containment Vent Isolation:
- A. Manual Containment Spray/Containment Isolation Phase B/Containment Vent Isolation can be actuated from either handswitch pair 2-HS-30-64A & 2-HS-30-64B or 2-HS-30-68A & 2-HS-30-68B (Steps 6.2[32], 6.2[33], 6.2[39], 6.2[46], 6.18[6], 6.18[7], 6.18[13], 6.18[20])
 - B. The following Slave Relays in each Train will be actuated when Manual Containment Isolation Phase B /Containment Vent Isolation/Containment Spray are initiated: (Steps 6.2[32], 6.2[33], 6.2[39], 6.2[46], 6.18[6], 6.18[7], 6.18[13], 6.18[20])

| | |
|---------------|---------------|
| 2-RLY-99-K615 | 2-RLY-99-K626 |
| 2-RLY-99-K618 | 2-RLY-99-K643 |
| 2-RLY-99-K619 | 2-RLY-99-K644 |
| 2-RLY-99-K622 | 2-RLY-99-K645 |
| 2-RLY-99-K625 | |
- [1.7] Manual Containment Isolation Phase A from either 2-HS-30-63A or 2-HS-30-63B Handswitch will actuate the following Containment Isolation Phase A and Containment Vent Isolation Slave Relays: (Step 6.9[9], 6.9[10], 6.9[18], 6.9[19])
- | | |
|---------------|---------------|
| 2-RLY-99-K605 | 2-RLY-99-K614 |
| 2-RLY-99-K606 | 2-RLY-99-K615 |
| 2-RLY-99-K607 | 2-RLY-99-K622 |
| 2-RLY-99-K612 | 2-RLY-99-K630 |
| 2-RLY-99-K613 | |

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5.0 ACCEPTANCE CRITERIA (continued)

[1.8] Containment High-High Pressure:

- A. Containment High-High Pressure will initiate Containment Isolation Phase B when any two out of four Channels are actuated
(Steps 6.3[27], 6.3[28], 6.3[45], 6.3[55], 6.3[65], 6.3[75], 6.3[85])
- B. Containment High-High Pressure will initiate Containment Spray when any two out of four Channels are actuated
(Steps 6.3[27], 6.3[28], 6.3[45], 6.3[55], 6.3[65], 6.3[75], 6.3[85])
- C. Containment High-High Pressure will initiate Main Steamline Isolation when any two out of four Channels are actuated
(Steps 6.3[29], 6.3[46], 6.3[47], 6.3[56], 6.3[57], 6.3[66], 6.3[67], 6.3[76], 6.3[77], 6.3[86], 6.3[87])
- D. The following relays are energized when two out of four Containment High-High Pressure Channels are actuated:
(Steps 6.3[27], 6.3[28], 6.3[29], 6.3[45], 6.3[46], 6.3[47], 6.3[55], 6.3[56], 6.3[57], 6.3[65], 6.3[66], 6.3[67], 6.3[75], 6.3[76], 6.3[77], 6.3[85], 6.3[86], 6.3[87])

2-RLY-99-K616

2-RLY-99-K625

2-RLY-99-K617

2-RLY-99-K626

2-RLY-99-K618

2-RLY-99-K643

2-RLY-99-K619

2-RLY-99-K644

2-RLY-99-K623

2-RLY-99-K645

2-RLY-99-K624

| | | |
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5.0 ACCEPTANCE CRITERIA (continued)

[1.9] Pressurizer Low Pressure - Safety Injection:

- A. Pressurizer Low Pressure will initiate Safety Injection when two out of three Channels are actuated and Pressurizer Pressure-SI is NOT blocked (Steps 6.5[25], 6.5[27], 6.5[28], 6.5[37], 6.5[46])
- B. Safety Injection when actuated by Pressurizer Low Pressure - SI, will cause a reactor trip (Steps 6.5[26], 6.5[38], 6.5[47])
- C. Pressurizer Low Pressure - SI will energize the following Slave Relays: (Steps 6.5[27], 6.5[28])

| | |
|---------------|---------------|
| 2-RLY-99-K601 | 2-RLY-99-K612 |
| 2-RLY-99-K602 | 2-RLY-99-K613 |
| 2-RLY-99-K603 | 2-RLY-99-K614 |
| 2-RLY-99-K604 | 2-RLY-99-K615 |
| 2-RLY-99-K605 | 2-RLY-99-K620 |
| 2-RLY-99-K606 | 2-RLY-99-K621 |
| 2-RLY-99-K607 | 2-RLY-99-K622 |
| 2-RLY-99-K608 | 2-RLY-99-K630 |
| 2-RLY-99-K609 | 2-RLY-99-K647 |
| 2-RLY-99-K610 | 2-RLY-99-K649 |
| 2-RLY-99-K611 | |

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5.0 ACCEPTANCE CRITERIA (continued)

[1.10] Main Steamline Low Pressure - Safety Injection and Main Steamline Isolation:

- A. Main Steamline Low Pressure will initiate Safety Injection and Steamline Isolation when any two out of three Channels in one out of four Main Steamlines are actuated and Main Steamline Low Pressure-SI is NOT blocked (Steps 6.8[74], 6.8[92], 6.8[103], 6.8[114], 6.8[127], 6.8[138], 6.8[149], 6.8[162], 6.8[173], 6.8[184], 6.8[197], 6.8[208])
- B. Main Steamline Low Pressure-SI, when actuated will cause a reactor trip (Steps 6.8[75], 6.8[93], 6.8[104], 6.8[115], 6.8[128], 6.8[139], 6.8[150], 6.8[163], 6.8[174], 6.8[185], 6.8[198], 6.8[209])
- C. The following Slave Relays are actuated when two out of three Channels in one out of four Main Steamlines are tripped and Main Steamline Low Pressure - SI, and Main Steamline Isolation is NOT blocked:
(Steps 6.8[76], 6.8[77], 6.8[92], 6.8[94], 6.8[95], 6.8[103], 6.8[105], 6.8[106], 6.8[114], 6.8[116], 6.8[117], 6.8[127], 6.8[129], 6.8[130], 6.8[138], 6.8[140], 6.8[141], 6.8[149], 6.8[151], 6.8[152], 6.8[162], 6.8[164], 6.8[165], 6.8[173], 6.8[175], 6.8[176], 6.8[184], 6.8[186], 6.8[187], 6.8[197], 6.8[199], 6.8[200], 6.8[208], 6.8[210], 6.8[211])

| | |
|---------------|---------------|
| 2-RLY-99-K601 | 2-RLY-99-K614 |
| 2-RLY-99-K602 | 2-RLY-99-K615 |
| 2-RLY-99-K603 | 2-RLY-99-K616 |
| 2-RLY-99-K604 | 2-RLY-99-K617 |
| 2-RLY-99-K605 | 2-RLY-99-K620 |
| 2-RLY-99-K606 | 2-RLY-99-K621 |
| 2-RLY-99-K607 | 2-RLY-99-K622 |
| 2-RLY-99-K608 | 2-RLY-99-K623 |
| 2-RLY-99-K609 | 2-RLY-99-K624 |
| 2-RLY-99-K610 | 2-RLY-99-K630 |
| 2-RLY-99-K611 | 2-RLY-99-K647 |
| 2-RLY-99-K612 | 2-RLY-99-K649 |
| 2-RLY-99-K613 | |

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5.0 ACCEPTANCE CRITERIA (continued)

[1.11] High Steam Pressure Rate

- A. High Steam Pressure Rate will initiate a Main Steamline Isolation Signal when any two out of three Channels in one out of four Main Steamlines are actuated, and LO STEAM PRESS SI BLOCK is actuated

(Steps 6.6[62], 6.6[63], 6.6[72], 6.6[73], 6.6[79], 6.6[80], 6.6[86], 6.6[87], 6.6[93], 6.6[94], 6.6[100], 6.6[101], 6.6[107], 6.6[108], 6.6[114], 6.6[115], 6.6[121], 6.6[122], 6.6[128], 6.6[129], 6.6[135], 6.6[136], 6.6[142], 6.6[143])

- B. High Steam Pressure Rate-Main Steamline Isolation when actuated will actuate the following Slave Relays: (Steps 6.6[62], 6.6[63], 6.6[72], 6.6[73], 6.6[79], 6.6[80], 6.6[86], 6.6[87], 6.6[93], 6.6[94], 6.6[100], 6.6[101], 6.6[107], 6.6[108], 6.6[114], 6.6[115], 6.6[121], 6.6[122], 6.6[128], 6.6[129], 6.6[135], 6.6[136], 6.6[142], 6.6[143])

2-RLY-99-K616

2-RLY-99-K623

2-RLY-99-K617

2-RLY-99-K624

[1.12] Containment High Pressure

- A. Containment High Pressure will initiate a Safety Injection when any two out of three Containment High Pressure Channels are actuated (Steps 6.7[31], 6.7[66], 6.7[74])

- B. Containment High Pressure-SI, when actuated, will cause a reactor trip (Steps 6.7[32], 6.7[67], 6.7[75])

- C. Containment High Pressure-SI will actuate the following relays: (Steps 6.7[33], 6.7[34])

2-RLY-99-K601

2-RLY-99-K608

2-RLY-99-K615

2-RLY-99-K602

2-RLY-99-K609

2-RLY-99-K620

2-RLY-99-K603

2-RLY-99-K610

2-RLY-99-K621

2-RLY-99-K604

2-RLY-99-K611

2-RLY-99-K622

2-RLY-99-K605

2-RLY-99-K612

2-RLY-99-K630

2-RLY-99-K606

2-RLY-99-K613

2-RLY-99-K647

2-RLY-99-K607

2-RLY-99-K614

2-RLY-99-K649

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5.0 ACCEPTANCE CRITERIA (continued)

[1.13] P-4 & Low Tavg

- A. Low Tavg in any two out of four Channels in conjunction with Reactor Trip (P-4) will initiate Feedwater Isolation (Steps 6.11[28], 6.11[31], 6.11[32], 6.11[44], 6.11[50], 6.11[56], 6.11[62], 6.11[68])
- B. P-4 & Low Tavg - Feedwater Isolation will actuate the following relays:
(Steps 6.11[28], 6.11[31], 6.11[32], 6.11[44], 6.11[50], 6.11[56], 6.11[62], 6.11[68])
 - 2-RLY-99-K636 2-RLY-99-K637
 - 2-RLY-99-K621

[1.14] RWST Lo-Lo LVL in any two out of four Channels in coincidence with High Containment Sump Level in any two out of four Channels will actuate Relay 2-RLY-99-K648: (Steps 6.12[66], 6.12[67], 6.12[72], 6.12[76], 6.12[80], 6.12[84], 6.12[88], 6.12[113], 6.12[117], 6.12[121], 6.12[125], 6.12[129], 6.12[133])

[1.15] Containment Spray Flow Interlocks:

- A. Containment Spray Flow less than setpoint on Flow Channels FS 998A (Train A) and FS 999A (Train B) will actuate Relay 2-RLY-99-K638: (Steps 6.13[11], 6.13[21])
- B. Containment Spray Flow greater than setpoint on Flow Channels FS 998B (Train A) and FS 999B (Train B) actuate Relay 2-RLY-99-K639: (Steps 6.13[16], 6.13[26])

[1.16] RCS Pressure above setpoint will block Residual Heat Removal System Isolation Valve from opening:

- A. 406AX (Steps 6.15[10], 6.15[11])
- B. 407AX (Steps 6.15[30], 6.15[31])

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5.0 ACCEPTANCE CRITERIA (continued)

[1.17] Main Steam Valve Vault High Level (MSVVHL)

- A. MSVVHL in any two out of three Channels in either Main Steam Valve Vault will initiate Main Feedwater Isolation: (Steps 6.16[53], 6.16[59], 6.16[65], 6.16[115], 6.16[121], 6.16[127])

NOTE

Relay 2-RLY-99-K621 actuation from relay 2-RLY-99-K620 is verified in section 6.14.

- B. MSVVHL-Feedwater Isolation actuates the following relays:
(Steps 6.16[54], 6.16[60], 6.16[66], 6.16[115]B, 6.16[122], 6.16[128])

2-RLY-99-K620

2-RLY-99-K649

2-RLY-99-K621

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6.0 INSTRUCTIONS

NOTES

- 1) Subsections of this procedure must be performed in order.
- 2) All equipment specified in this procedure will be Unit 2, unless designated otherwise.
- 3) Test Methodology utilized throughout this procedure requires Slave Relay Contact status be verified once prior to an actuation, once after the actuation, and once the actuation has been reset. This is accomplished the first time the particular relay remains actuated a sufficient amount of time to acquire the data. Subsequent Slave Relay actuations are visually verified as defined in NOTE 4.
- 4) Unless otherwise noted, Slave Relay actuation will be verified by observing the relay contactor armature position as follows:

Relay Actuated is defined as:

Non-latching relays - the center bar is pulled in.

Latching relays - the Opaque/White plunger is pulled in

Relay Reset is defined as:

Non-latching relays - the center bar is flush with the relay face

Latching relays - the Opaque/White plunger is protruding from the relay face.

- 5) The UV Coil Voltage meter (M501) will be used to verify Reactor Trip status. A reading of 0 VDC (≤ 5 VDC) will indicate "Reactor tripped status and a reading of 42 VDC (≥ 35 VDC) will indicate "Reactor NOT tripped" status. The UV Coil Voltage Meter (M501) will also be used to verify Safety Injection Reset Timer Operation. The meter is used strictly as a GO/NO-GO indication, NOT a quantitative measuring device.
- 6) Table 17, Slave Relays and Associated Function; describes the individual Slave Relay (K600 series) actuation functions.
- 7) The status of contacts will be verified using a multimeter at terminal blocks and/or across lifted leads, throughout this procedure. The state of a contact may be determined by a continuity check at the indicated terminals. A reading of less than 5 ohms will indicate a closed contact and a reading greater than 5 ohms will indicate an open contact. Contact state may also be determined by measuring the presence of Voltage (open circuit) or No Voltage (closed circuit).
- 8) All terminal points and connections are to be considered energized. Instrumentation must be used to determine if the circuits are de-energized.

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6.1 Manual Safety Injection Train A

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.1 have been completed. _____

[2] **VERIFY** the following:

A. 2-XA-55-4A-68B,
LO STM PRESS SI-BLKD STM PRESS RATE SLI-
ACTIVE (P-11), is CLEAR. _____

B. 2-XA-55-4A-69A,
P-11 PZR PRESS PZR/STM PRESS SI BLOCK
PERMISSIVE, is CLEAR. _____

C. 2-XA-55-4A-69B,
PZR PRESS SI BLOCKED,
is CLEAR. _____

D. 2-XA-55-4A-70A,
SI ACTUATED, is CLEAR. _____

E. 2-XA-55-4A-70B,
AUTO SI BLOCKED, is CLEAR. _____

F. 2-XA-55-4D-76G,
SI MANUAL, is CLEAR. _____

G. 2-XA-55-4D-77G,
SI PZR PRESS LO, is CLEAR. _____

H. 2-XA-55-4D-78G,
SI CNTMT PRESS HI, is CLEAR. _____

I. 2-XA-55-4D-79G,
SI STM PRESS LO, is CLEAR. _____

J. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
is OFF. _____

K. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____

L. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

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6.1 Manual Safety Injection Train A (continued)

- M. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- N. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- O. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____
- P. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, NOT TR. _____
- Q. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, NOT TR. _____
- R. White RESET Light on Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, is OFF. _____
- S. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is OFF. _____
- [3] **PLACE** MEMORIES FUNCTION SELECTORS Switch, at 2-R-47, in Position 9. _____
- [4] **PRESS** and **RELEASE** the Black Lower MEMORY FUNCTION TEST Pushbutton, at 2-R-47, and **VERIFY** the Memory Set Lamp is NOT LIT. _____
- [5] **PLACE** S521 TIMER TEST SWITCH, at 2-R-47, in Position 2. _____
- [6] **VERIFY** the UV Coil Meter (M501), at 2-R-47, indicates 26 to 48 VDC. _____
- [7] **PLACE** S521 TIMER TEST SWITCH, at 2-R-47, in Position 3. _____
- [8] **VERIFY** 0 VDC (\leq 5 VDC) on the UV Coil Meter (M501), at 2-R-47. _____
- [9] **PLACE** S605 TIMER TEST SWITCH, at 2-R-48, in Position 2 and **VERIFY** Timer Test Lamp is LIT. _____
- [10] **PLACE** S605 TIMER TEST SWITCH, at 2-R-48, in Position 3 and **VERIFY** Timer Test Lamp is NOT LIT. _____

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6.1 Manual Safety Injection Train A (continued)

[11] **PRESS** and **HOLD** Pushbutton 2-HS-63-134A, SI RESET TR-A, at 2-M-6 and **VERIFY** Timer Test Lamp, at 2-R-48, is LIT. _____

[12] **RELEASE** Pushbutton 2-HS-63-134A, SI RESET TR-A, at 2-M-6 and **VERIFY** Timer Test Lamp, at 2-R-48, is NOT LIT. _____

NOTES

- 1) A stopwatch will be used in the next steps to verify Safety Injection reset time from actuation of the handswitches until the UV Coil Meter indicates 26 to 48VDC.
- 2) Communications will be required for start of reset time between Auxiliary Instrument Room and Main Control Room.
- 3) Steps 6.1[13] and 6.1[14] must be performed in less than or equal to 60 seconds.

[13] **SIMULTANEOUSLY PERFORM** the following:

[13.1] **ROTATE** Handswitch 2-HS-63-133A, SI ACTUATE TR A & B, at 2-M-6, to ACTUATE. _____

[13.2] **START** the stopwatch. _____

[14] **PRESS** Pushbutton 2-HS-63-134A SI RESET TR-A, at 2-M-6, and **VERIFY** Annunciator Window 2-XA-55-4A-70A SI ACTUATED, remains in ALARM. **(Acc Crit)** _____

[15] **STOP** the stopwatch when 26 to 48VDC is indicated on the UV Coil Meter (M501), at 2-R-47, and **RECORD** the elapsed time. _____

_____ seconds

M&TE _____ Cal Due Date _____

[16] **VERIFY** the Safety Injection reset time delay is 90, ± 10 seconds. **(Acc Crit)** _____

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6.1 Manual Safety Injection Train A (continued)

[17] **VERIFY** the following ICS points read:

- A. SD9000 (SI ACT TR-A), ACT. _____
- B. SD9010 (CNTMT ISOL PH A TR-A), ACT. _____
- C. SD9006 (MAIN FEED ISOL TR-A), ACT. _____
- D. SD9001 (SI ACT TR-B), ACT. _____
- E. SD9011 (CNTMT ISOL PH A TR-B), ACT. _____
- F. SD9007 (MAIN FEED ISOL TR-B), ACT. _____

[18] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[19] **VERIFY** the following:

- A. Memory Set Lamp, at 2-R-47, is LIT. _____
- B. Timer Test Lamp, at 2-R-48, is NOT LIT. _____
- C. 2-RLY-99-K602, at 2-R-48, is RESET. _____
- D. UV Coil Meter, at 2-R-47, indicates 0VDC (\leq 5VDC). _____

[20] **PLACE** Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, to RESET. _____

[21] **PLACE** Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73, at 2-M-6, to RESET. _____

| | | |
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6.1 Manual Safety Injection Train A (continued)

[22] **VERIFY** the following:

A. 2-RLY-99-K647, at 2-R-48, is RESET. _____

B. 2-RLY-99-K647, at 2-R-51, is RESET. _____

[23] **PLACE** S521 TIMER TEST Switch, at 2-R-47, in Position 2 and **VERIFY** the UV Coil Meter, at 2-R-47, indicates 26 to 48VDC. _____

[24] **PLACE** the following switches in the indicated positions:

A. MEMORIES FUNCTION SELECTOR, at 2-R-47, to OFF. _____

B. S521 TIMER TEST, at 2-R-47, in NORMAL (1). _____

C. S605 TIMER TEST, at 2-R-48, in OFF (1). _____

[25] **VERIFY** the following ICS points read:

A. SD9000 (SI ACT TR-A), NO ACT. _____

B. SD9010 (CNTMT ISOL PH A TR-A), NO ACT. _____

C. SD9006 (MAIN FEED ISOL TR-A), NO ACT. _____

D. SD9001 (SI ACT TR-B), NO ACT. _____

E. SD9011 (CNTMT ISOL PH A TR-B), NO ACT. _____

F. SD9007 (MAIN FEED ISOL TR-B), NO ACT. _____

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[26] **VERIFY** a pre-test contact condition per Table 8. _____

| | | |
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6.1 Manual Safety Injection Train A (continued)

[27] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

[28] **ROTATE** Handswitch 2-HS-63-133A, SI ACTUATE TR A & B, at 2-M-6, to ACTUATE. _____

[29] **VERIFY** the following:

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____

C. 2-XA-55-4D-76G. SI MANUAL, is in ALARM. _____

D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is ON. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

J. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, NOT TR. _____

K. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, TRIP. _____

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6.1 Manual Safety Injection Train A (continued)

L. White RESET Light on Handswitch 2-HS-63-73D RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73, at 2-M-6, is ON. _____

M. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNW SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is ON. _____

[30] **VERIFY** the following ICS points indicate:

A. SD9000 (SI ACT TR-A), ACT. _____

B. SD9010 (CNTMT ISOL PH A TR-A), ACT. _____

C. SD9006 (MAIN ISOL TR-A), ACT. _____

D. SD9001 (SI ACT TR-B), ACT. _____

E. SD9011 (CNTMT ISOL PH A TR-B), ACT. _____

F. SD9007 (MAIN FEED ISOL TR-B), ACT. _____

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[31] **VERIFY** an ACTUATED contact condition per Table 8.
(Acc Crit) _____

| | | |
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6.1 Manual Safety Injection Train A (continued)

[32] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

- | | | | |
|----|---------------|------------|-------|
| A. | 2-RLY-99-K601 | (Acc Crit) | _____ |
| B. | 2-RLY-99-K602 | (Acc Crit) | _____ |
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K647 | (Acc Crit) | _____ |

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6.1 Manual Safety Injection Train A (continued)

NOTE

Step 6.1[28] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

- [33] **PRESS** Pushbutton 2-HS-63-134B, SI RESET TR-B, at Panel 2-M-6. _____
- [34] **VERIFY** MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____
- [35] **VERIFY** the following ICS points read:
 - A. SD9001 (SI ACT TR-B), NO ACT. _____
 - B. SD9007 (MAIN FEED ISOL. TR-B), NO ACT. _____
- [36] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
 - A. 2-RLY-99-K601 _____
 - B. 2-RLY-99-K602 _____
 - C. 2-RLY-99-K603 _____
 - D. 2-RLY-99-K604 _____
 - E. 2-RLY-99-K608 _____
 - F. 2-RLY-99-K609 _____
 - G. 2-RLY-99-K610 _____
 - H. 2-RLY-99-K611 _____
 - I. 2-RLY-99-K621 _____
- [37] **ROTATE** Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, to RESET and **VERIFY** 2-RLY-99-K647 is RESET, at 2-R-51. _____
- [38] **VERIFY** the white RESET light on Handswitch 2-HS-63-73D is OFF. _____

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6.1 Manual Safety Injection Train A (continued)

- [39] **PRESS** Pushbutton 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B, at 2-M-6. _____
- [40] **VERIFY** MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), Ø A, is OFF. _____
- [41] **VERIFY** ICS point SD9011 (CNTMT ISOL PH A TR-B) indicates, NO ACT. _____
- [42] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K605 _____
 - B. 2-RLY-99-K606 _____
 - C. 2-RLY-99-K607 _____
 - D. 2-RLY-99-K612 _____
 - E. 2-RLY-99-K613 _____
 - F. 2-RLY-99-K614 _____
 - G. 2-RLY-99-K630 _____
- [43] **PRESS** Pushbutton 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B, at 2-M-6. _____
- [44] **VERIFY** MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6) CVI, is OFF. _____
- [45] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K615 _____
 - B. 2-RLY-99-K622 _____

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6.1 Manual Safety Injection Train A (continued)

[46] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K621 _____
- Q. 2-RLY-99-K622 _____
- R. 2-RLY-99-K630 _____
- S. 2-RLY-99-K647 _____

[47] **PRESS** Pushbutton 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A, at 2-M-6. _____

[48] **VERIFY** MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

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6.1 Manual Safety Injection Train A (continued)

[49] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[50] **PRESS** Pushbutton 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A, at 2-M-6. _____

[51] **VERIFY** MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____

[52] **VERIFY** ICS point SD9010 (CNTMT ISOL PH A TR-A) indicates, NO ACT. _____

[53] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K605 _____

B. 2-RLY-99-K606 _____

C. 2-RLY-99-K607 _____

D. 2-RLY-99-K612 _____

E. 2-RLY-99-K613 _____

F. 2-RLY-99-K614 _____

G. 2-RLY-99-K630 _____

[54] **PRESS** Pushbutton 2-HS-63-134A, SI RESET TR-A, at 2-M-6. _____

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6.1 Manual Safety Injection Train A (continued)

[55] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- C. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates NOT TR. _____
- F. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates NOT TR. _____

[56] **VERIFY** the following ICS points read:

- A. SD9000 (SI ACT TR-A), NO ACT. _____
- B. SD9006 (MAIN FEED ISOL TR-A), NO ACT. _____

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

- [57] **VERIFY** a RESET contact condition per Table 8.
(Acc Crit) _____
- [58] **ROTATE** Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-72, at 2-M-6, to RESET. _____
- [59] **VERIFY** the white RESET light on Handswitch 2-HS-63-72D, is OFF. _____
- [60] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K647 at 2-R-48:
 - A. TB631 9, 10 OPEN. _____
 - B. TB631 11, 12 OPEN. _____

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6.1 Manual Safety Injection Train A (continued)

[61] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K601 at 2-R-48:

A. TB630 9, 10 CLOSED. _____

B. TB631 5, 6 CLOSED. _____

C. TB631 7, 8 CLOSED. _____

D. TB648 1, 2 CLOSED. _____

E. TB648 3, 4 CLOSED. _____

F. TB649 1, 2 CLOSED. _____

G. TB649 3, 4 CLOSED. _____

[62] **VERIFY** a RESET Contact Condition for Slave Relay 2-RLY-99-K610, at 2-R-48.

A. TB621 9, 10 CLOSED. _____

B. TB621 11, 12 CLOSED. _____

C. TB622 1, 2 CLOSED. _____

D. TB622 5, 6 OPEN. _____

E. TB622 7, 8 OPEN. _____

F. TB622 9, 10 CLOSED. _____

[63] **VERIFY** a RESET contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-48.

A. TB631 1, 2 OPEN. _____

B. TB631 3, 4 OPEN. _____

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6.1 Manual Safety Injection Train A (continued)

[64] **MANUALLY ACTUATE** and **HOLD** Slave Relay
2-RLY-99-K648, at 2-R-48. _____

[64.1] **VERIFY** the RESET contact condition for Slave Relays
2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-48, has
NOT changed:

A. TB631 1, 2 OPEN. _____

B. TB631 3, 4 OPEN. _____

[64.2] **RELEASE** Slave Relay 2-RLY-99-K648, at 2-R-48. _____

[65] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K601 at
2-R-48. _____

[66] **VERIFY** an ACTUATED contact condition for Slave Relay
2-RLY-99-K601 at 2-R-48.

A. TB630 9, 10 OPEN. _____

B. TB631 5, 6 OPEN. _____

C. TB631 7, 8 OPEN. _____

D. TB648 1, 2 OPEN. _____

E. TB648 3, 4 OPEN. _____

F. TB649 1, 2 OPEN. _____

G. TB649 3, 4 OPEN. _____

[67] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K610 at
2-R-48. _____

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6.1 Manual Safety Injection Train A (continued)

[68] **VERIFY** an ACTUATED contact condition for Slave Relay 2-RLY-99-K610, at 2-R-48.

A. TB621 9, 10 OPEN. _____

B. TB621 11, 12 OPEN. _____

C. TB622 1, 2 OPEN. _____

D. TB3622 5, 6 CLOSED. _____

E. TB622 7, 8 CLOSED. _____

F. TB622 9, 10 OPEN. _____

[69] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K647, at 2-R-48. _____

[70] **VERIFY** the RESET contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-48 has NOT changed.

A. TB631 1, 2 OPEN. _____

B. TB631 3, 4 OPEN. _____

[71] **MANUALLY ACTUATE** and **HOLD** Slave Relay 2-RLY-99-K648, at 2-R-48. _____

[71.1] **VERIFY** an ACTUATED contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-48.

A. TB631 1, 2 CLOSED. _____

B. TB631 3, 4 CLOSED. _____

[71.2] **RELEASE** Slave Relay 2-RLY-99-K648 at 2-R-48. _____

[72] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K602, at 2-R-48. _____

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6.1 Manual Safety Injection Train A (continued)

NOTE

Step 6.1[72] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[73] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

[74] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K601 at 2-R-48:

A. TB630 9, 10 CLOSED. _____

B. TB631 5, 6 CLOSED. _____

C. TB631 7, 8 CLOSED. _____

D. TB648 1, 2 CLOSED. _____

E. TB648 3, 4 CLOSED. _____

F. TB649 1, 2 CLOSED. _____

G. TB649 3, 4 CLOSED. _____

[75] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K610, at 2-R-48.

A. TB621 9, 10 CLOSED. _____

B. TB621 11, 12 CLOSED. _____

C. TB622 1, 2 CLOSED. _____

D. TB622 5, 6 OPEN. _____

E. TB622 7, 8 OPEN. _____

F. TB622 9, 10 CLOSED. _____

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6.1 Manual Safety Injection Train A (continued)

[76] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

[77] **VERIFY** a RESET contact condition for Slave Relays
2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-48.

- A. TB631 1, 2 OPEN. _____
- B. TB631 3, 4 OPEN. _____

[78] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS
RATE SL1-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI
BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- D. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- E. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- F. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- G. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- H. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- I. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- J. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
is OFF. _____
- K. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- L. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

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6.1 Manual Safety Injection Train A (continued)

- M. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- N. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- O. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____
- P. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates NOT TR. _____
- Q. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates NOT TR. _____
- R. White RESET Light on Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, is OFF. _____
- S. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is OFF. _____

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6.2 Manual Containment Spray Actuation Train A

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.2 have been completed. _____

[2] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____

B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

D. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

F. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____

G. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6) CVI, is OFF. _____

I. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6) ØB is OFF. _____

J. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[3] **VERIFY** the following ICS points indicate:

- A. SD9002 (CNTMT SPRAY ACT TR-A), NO ACT. _____
- B. SD9012 (CNTMT ISOL PH B TR-A), NO ACT. _____
- C. SD9003 (CNTMT SPRAY ACT TR-B), NO ACT. _____
- D. SD9013 (CNTMT ISOL PH B TR-B), NO ACT. _____

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

- [4] **VERIFY** a pre-test contact condition per Table 9. _____
- [5] **ROTATE** Handswitch 2-HS-30-64A, ØB & CNTMT VENT ISOL, at 2-M-6, to ACTUATE. _____
- [6] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:
 - A. 2-RLY-99-K615 _____
 - B. 2-RLY-99-K618 _____
 - C. 2-RLY-99-K619 _____
 - D. 2-RLY-99-K622 _____
 - E. 2-RLY-99-K625 _____
 - F. 2-RLY-99-K626 _____
 - G. 2-RLY-99-K643 _____
 - H. 2-RLY-99-K644 _____
 - I. 2-RLY-99-K645 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[7] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[8] **ROTATE** Handswitch 2-HS-30-64B, ØB & CNTMT VENT ISOL, at 2-M-6, to ACTUATE. _____

[9] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[10] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[11] **ROTATE** Handswitch 2-HS-30-68A, ØB & CNTMT VENT ISOL, at 2-M-5, to ACTUATE. _____

[12] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[13] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[14] **ROTATE** Handswitch 2-HS-30-68B, ØB & CNTMT VENT ISOL, at 2-M-5, to ACTUATE. _____

[15] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[16] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[17] **SIMULTANEOUSLY ROTATE** the following Handswitches to ACTUATE.

- A. 2-HS-30-64A, ØB & CNTMT VENT ISOL, at 2-M-6. _____
- B. 2-HS-30-68A, ØB & CNTMT VENT ISOL, at 2-M-5. _____

[18] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

I. 2-RLY-99-K645 _____

[19] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K618 _____

C. 2-RLY-99-K619 _____

D. 2-RLY-99-K622 _____

E. 2-RLY-99-K625 _____

F. 2-RLY-99-K626 _____

G. 2-RLY-99-K643 _____

H. 2-RLY-99-K644 _____

I. 2-RLY-99-K645 _____

[20] **SIMULTANEOUSLY ROTATE** the following Handswitches to ACTUATE.

A. 2-HS-30-64B, ØB & CNTMT VENT ISOL, at 2-M-6. _____

B. 2-HS-30-68B, ØB & CNTMT VENT ISOL, at 2-M-5. _____

[21] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K618 _____

C. 2-RLY-99-K619 _____

D. 2-RLY-99-K622 _____

E. 2-RLY-99-K625 _____

F. 2-RLY-99-K626 _____

G. 2-RLY-99-K643 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

H. 2-RLY-99-K644 _____

I. 2-RLY-99-K645 _____

[22] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K618 _____

C. 2-RLY-99-K619 _____

D. 2-RLY-99-K622 _____

E. 2-RLY-99-K625 _____

F. 2-RLY-99-K626 _____

G. 2-RLY-99-K643 _____

H. 2-RLY-99-K644 _____

I. 2-RLY-99-K645 _____

[23] **SIMULTANEOUSLY ROTATE** the following Handswitches at 2-M-6 to ACTUATE.

A. 2-HS-30-64B, ØB & CNTMT VENT ISOL _____

B. 2-HS-30-68A, ØB & CNTMT VENT ISOL _____

[24] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K618 _____

C. 2-RLY-99-K619 _____

D. 2-RLY-99-K622 _____

E. 2-RLY-99-K625 _____

F. 2-RLY-99-K626 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[25] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____
- F. 2-RLY-99-K626 _____
- G. 2-RLY-99-K643 _____
- H. 2-RLY-99-K644 _____
- I. 2-RLY-99-K645 _____

[26] **SIMULTANEOUSLY ROTATE** the following Handswitches at 2-M-6 to ACTUATE.

- A. 2-HS-30-64A, ØB & CNTMT VENT ISOL. _____
- B. 2-HS-30-68B, ØB & CNTMT VENT ISOL. _____

[27] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-48:

- A. 2-RLY-99-K615 _____
- B. 2-RLY-99-K618 _____
- C. 2-RLY-99-K619 _____
- D. 2-RLY-99-K622 _____
- E. 2-RLY-99-K625 _____

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6.2 Manual Containment Spray Actuation Train A (continued)

F. 2-RLY-99-K626 _____

G. 2-RLY-99-K643 _____

H. 2-RLY-99-K644 _____

I. 2-RLY-99-K645 _____

[28] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K618 _____

C. 2-RLY-99-K619 _____

D. 2-RLY-99-K622 _____

E. 2-RLY-99-K625 _____

F. 2-RLY-99-K626 _____

G. 2-RLY-99-K643 _____

H. 2-RLY-99-K644 _____

I. 2-RLY-99-K645 _____

[29] **SIMULTANEOUSLY ROTATE** the following Handswitches at 2-M-6 to ACTUATE.

A. 2-HS-30-64A, ØB & CNTMT VENT ISOL. _____

B. 2-HS-30-64B, ØB & CNTMT VENT ISOL. _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[30] **VERIFY** the following:

- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____
- B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB is ON. _____
- E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- G. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____
- H. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

[31] **VERIFY** the following ICS points read:

- A. SD9002 (CNTMT SPRAY ACT. TR-A), ACT. _____
- B. SD9012 (CNTMT ISOL PH B TR-A), ACT. _____
- C. SD9003 (CNTMT SPRAY ACT. TR-B), ACT. _____
- D. SD9013 (CNTMT ISOL PH B TR-B), ACT. _____

[32] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K615 at 2-R-48 **(Acc Crit)** _____
- B. 2-RLY-99-K622 at 2-R-48 **(Acc Crit)** _____
- C. 2-RLY-99-K615 at 2-R-51 **(Acc Crit)** _____
- D. 2-RLY-99-K622 at 2-R-51 **(Acc Crit)** _____

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6.2 Manual Containment Spray Actuation Train A (continued)

- [33] **VERIFY** an ACTUATED contact condition per Table 9.
(Acc Crit) _____
- [34] **SIMULTANEOUSLY PRESS** the following Pushbuttons, at 2-M-6:
- A. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- B. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- [35] **VERIFY** the following:
- A. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- C. 2-RLY-99-K615, at 2-R-48, is RESET. _____
- D. 2-RLY-99-K622, at 2-R-48, is RESET. _____
- E. 2-RLY-99-K615, at 2-R-51, is RESET. _____
- F. 2-RLY-99-K622, at 2-R-51, is RESET. _____
- [36] **PRESS** Pushbutton 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A, at 2-M-6. _____
- [37] **VERIFY** the following:
- A. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
- B. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____
- C. ICS point SD9013 (CNTMT ISOL PH B TR-B), indicates, ACT. _____
- D. ICS point SD9012 (CNTMT ISOL PH B TR-A), indicates, NO ACT. _____

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6.2 Manual Containment Spray Actuation Train A (continued)

- [38] **VERIFY** the following Slave Relays are RESET, at 2-R-48:
- A. 2-RLY-99-K618 _____
 - B. 2-RLY-99-K619 _____
 - C. 2-RLY-99-K625 _____
 - D. 2-RLY-99-K626 _____
- [39] **VERIFY** the following Slave Relays remain ACTUATED at 2-R-51:
- A. 2-RLY-99-K618 **(Acc Crit)** _____
 - B. 2-RLY-99-K619 **(Acc Crit)** _____
 - C. 2-RLY-99-K625 **(Acc Crit)** _____
 - D. 2-RLY-99-K626 **(Acc Crit)** _____
- [40] **PRESS** Pushbutton 2-HS-30-64E, Ø B CNTMT ISOL RESET TR-B, at 2-M-6. _____
- [41] **VERIFY** the following:
- A. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
 - B. ICS point SD9013 (CNTMT ISOL PH B TR-B), indicates, NO ACT. _____
- [42] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K618 _____
 - B. 2-RLY-99-K619 _____
 - C. 2-RLY-99-K625 _____
 - D. 2-RLY-99-K626 _____
- [43] **PRESS** Pushbutton 2-HS-72-43, CNTMT SPRAY PMP A RESET TR-A, at 2-M-6. _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[44] **VERIFY** the following:

- A. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS,
is OFF. _____
- B. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS,
is ON. _____
- C. ICS point SD9002 (CNTMT SPRAY ACT TR-A) indicates,
NO ACT. _____
- D. ICS point SD9003 (CNTMT SPRAY ACT TR-B) indicates,
ACT. _____

[45] **VERIFY** the following Slave Relays are RESET, at
2-R-48:

- A. 2-RLY-99-K643 _____
- B. 2-RLY-99-K644 _____
- C. 2-RLY-99-K645 _____

[46] **VERIFY** the following Slave Relays remain ACTUATED, at
2-R-51:

- A. 2-RLY-99-K643 **(Acc Crit)** _____
- B. 2-RLY-99-K644 **(Acc Crit)** _____
- C. 2-RLY-99-K645 **(Acc Crit)** _____

[47] **PRESS** Pushbutton 2-HS-72-42, CNTMT SPRAY PMP B
RESET TR-B, at 2-M-6. _____

[48] **VERIFY** ICS point SD9003 (CNTMT ACT TR-B) indicates,
NO ACT. _____

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6.2 Manual Containment Spray Actuation Train A (continued)

[49] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K643 _____

B. 2-RLY-99-K644 _____

C. 2-RLY-99-K645 _____

[50] **VERIFY** the following:

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

C. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

[51] **VERIFY** a RESET contact condition per Table 9. _____

[52] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____

B. 2-XA-55-4D-78G, SI CNTMT PRESS HI is CLEAR. _____

C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____

E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

G. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____

H. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.3 have been completed. _____
- [2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at Panel 2-R-47, in A + B. _____
- [3] **ENSURE** the following bistables are in NORMAL:
 - A. PS/937A, Cntmt Hi Hi Press Ch1, at 2-R-3. _____
 - B. PS/936A, Cntmt Hi Hi Press Ch2, at 2-R-7. _____
 - C. PS/935A, Cntmt Hi Hi Press Ch3, at 2-R-11. _____
 - D. PS/934A, Cntmt Hi Hi Press Ch4, at 2-R-28. _____
- [4] **VERIFY** the following:
 - A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLIN ISOL, is CLEAR. _____
 - B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____
 - C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____
 - D. Trip Status Light 19 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-45A, is OFF. _____
 - E. Trip Status Light 39 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-44A, is OFF. _____
 - F. Trip Status Light 59 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-43A, is OFF. _____
 - G. Trip Status Light 79 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-42A, is OFF. _____
 - H. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), \emptyset B is OFF. _____
 - I. MISSP Trip Status Light 0 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

- J. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
- K. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____
- [5] **VERIFY** ICS point SD9004 (MAIN STM ISOL TR-A) indicates, NO ACT. _____
- [6] **VERIFY** ICS point SD9005 (MAIN STM ISOL TR-B) indicates, NO ACT. _____
- [7] **VERIFY** a pre-test contact condition per Table 10. _____
- [8] **PLACE** PS/936A, Cntmt Hi Hi Press Ch2 bistable, at 2-R-7, in TRIP. _____
- [9] **VERIFY** the following:
 - A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLIN ISOL, is in ALARM. _____
 - B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, remains CLEAR. _____
 - C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, remains CLEAR. _____
 - D. Trip Status Light 39, (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-44A, is ON. _____
 - E. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, remains OFF. _____
 - F. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, remains OFF. _____
 - G. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, remains OFF. _____
 - H. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, remains OFF. _____
- [10] **PLACE** PS/936A, Cntmt Hi Hi Press Ch2 bistable, at 2-R-7, in NORMAL. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[11] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____

B. Trip Status Light 39 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-44A, is OFF. _____

[12] **PLACE** PS/935A, Cntmt Hi Hi Press Ch3 bistable, at 2-R-11, in TRIP. _____

[13] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is in ALARM. _____

B. 2-XA-55-6C-125B, CNTMT HI - HI PRESS SPRAY ACTUATE, remains CLEAR. _____

C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, remains CLEAR. _____

D. Trip Status Light 59 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-43A, is ON. _____

[14] **PLACE** PS/935A, Cntmt Hi Hi Press Ch3 bistable, at 2-R-11, in NORMAL. _____

[15] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____

B. Trip Status Light 59 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-43A, is OFF. _____

[16] **PLACE** PS/934A, Cntmt Hi Hi Press Ch4 bistable, at 2-R-28, in TRIP. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[17] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is in ALARM. _____
- B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, remains CLEAR. _____
- C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, remains CLEAR. _____
- D. Trip Status Light 79 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-42A, is ON. _____

[18] **PLACE** PS/934A, Cntmt Hi Hi Press Ch4 bistable, at 2-R-28, in NORMAL. _____

[19] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____
- B. Trip Status Light 79 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-42A, is OFF. _____

[20] **PLACE** PS/937A, Cntmt Hi Hi Press Ch1 bistable, at 2-R-3, in TRIP. _____

[21] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is in ALARM. _____
- B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, remains CLEAR. _____
- C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, remains CLEAR. _____
- D. Trip Status Light 19 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-45A, is ON. _____

[22] **PLACE** PS/937A, Cntmt Hi Hi Press Ch1 bistable, at 2-R-3, in NORMAL. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[23] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____

B. Trip Status Light 19 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-45A, is OFF. _____

[24] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in NORMAL. _____

[25] **POSITION** the following bistables to TRIP:

A. PS/937A, Cntmt Hi Hi Press Ch1, at 2-R-3. _____

B. PS/936A, Cntmt Hi Hi Press Ch2, at 2-R-7. _____

[26] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is in ALARM. _____

B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____

C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____

D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____

E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____

F. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____

G. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[27] **VERIFY** the following Slave Relays are ACTUATED at Panel 2-R-48:

- A. 2-RLY-99-K618 (Acc Crit) _____
- B. 2-RLY-99-K619 (Acc Crit) _____
- C. 2-RLY-99-K625 (Acc Crit) _____
- D. 2-RLY-99-K626 (Acc Crit) _____
- E. 2-RLY-99-K643 (Acc Crit) _____
- F. 2-RLY-99-K644 (Acc Crit) _____
- G. 2-RLY-99-K645 (Acc Crit) _____

[28] **VERIFY** the following Slave Relays are ACTUATED at Panel 2-R-51:

- A. 2-RLY-99-K618 (Acc Crit) _____
- B. 2-RLY-99-K619 (Acc Crit) _____
- C. 2-RLY-99-K625 (Acc Crit) _____
- D. 2-RLY-99-K626 (Acc Crit) _____
- E. 2-RLY-99-K643 (Acc Crit) _____
- F. 2-RLY-99-K644 (Acc Crit) _____
- G. 2-RLY-99-K645 (Acc Crit) _____

[29] **VERIFY** an ACTUATED contact condition per Table 10.
(Acc Crit) _____

[30] **VERIFY** ICS point SD9004 (MAIN STM ISOL TR-A) indicates, ACT. _____

[31] **VERIFY** ICS point SD9005 (MAIN STM ISOL TR-B) indicates, ACT. _____

[32] **PLACE** PS/936A, CNTMT Hi Hi Press Ch2 bistable, at 2-R-7, in NORMAL. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[33] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL is in ALARM. _____
- B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, remains in ALARM. _____
- C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, remains in ALARM. _____
- D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, remains ON. _____
- E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, remains ON. _____
- F. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, remains ON. _____
- G. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, remains ON. _____

[34] **VERIFY** the following Slave Relays remain ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[35] **VERIFY** the following Slave Relays remain ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[36] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[37] **VERIFY** ICS point SD9004 (MAIN STM ISOL TR-A) indicates, NO ACT. _____

[38] **VERIFY** ICS point SD9005 (MAIN STM ISOL TR-B) indicates, NO ACT. _____

[39] **VERIFY** a RESET contact condition per Table 10. _____

[40] **PRESS** the following Pushbuttons, at 2-M-6:

A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____

B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____

C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____

D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____

[41] **VERIFY** the following:

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____

D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS,
is OFF.

[42] **VERIFY** the following Slave Relays remain RESET at
2-R-48:

A. 2-RLY-99-K618

B. 2-RLY-99-K619

C. 2-RLY-99-K625

D. 2-RLY-99-K626

E. 2-RLY-99-K643

F. 2-RLY-99-K644

G. 2-RLY-99-K645

[43] **VERIFY** the following Slave Relays remain RESET at
2-R-51:

A. 2-RLY-99-K618

B. 2-RLY-99-K619

C. 2-RLY-99-K625

D. 2-RLY-99-K626

E. 2-RLY-99-K643

F. 2-RLY-99-K644

G. 2-RLY-99-K645

[44] **PLACE** PS/935A, Cntmt Hi Hi Ch3 bistable, at 2-R-11,
in TRIP.

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[45] **VERIFY** the following: **(Acc Crit)**

- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM _____
- B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____
- C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____
- D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____
- E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____
- F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

[46] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[47] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

- [48] **PLACE** PS/935A, Cntmt Hi Hi Ch3 bistable, at 2-R-11, in NORMAL. _____
- [49] **POSITION** the following handswitches at 2-M-4, to reset Steam Line Isolation:
- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
 - B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
 - C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
 - D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____
- [50] **PRESS** the following pushbuttons at 2-M-6:
- A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____
 - B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____
 - C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____
 - D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____
- [51] **VERIFY** the following:
- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____
 - B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____
 - C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
 - D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____
 - E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
 - F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[52] **VERIFY** the following Slave Relays are RESET at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[53] **VERIFY** the following Slave Relays are RESET at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[54] **PLACE** PS/934A, Cntmt Hi Hi Ch4 bistable, at 2-R-28, in TRIP. _____

[55] **VERIFY** the following: **(Acc Crit)**

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____

C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____

D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____

E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____

F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[56] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[57] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[58] **PLACE** PS/937A, Cntmt Hi Hi Press Ch1 bistable, at 2-R-3, in NORMAL. _____

[59] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 1-NS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[60] **PRESS** the following pushbuttons at 2-M-6:

- A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____
- B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____
- C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____
- D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____

[61] **VERIFY** the following:

- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____
- B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____
- C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
- D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6, CS, is OFF. _____
- E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6, ØB, is OFF. _____
- F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

[62] **VERIFY** the following Slave Relays are RESET at Panel 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[63] **VERIFY** the following Slave Relays are RESET at Panel 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[64] **PLACE** PS/936A, Cntmt Hi Hi Ch2 bistable, at 2-R-7, in TRIP. _____

[65] **VERIFY** the following: **(Acc Crit)**

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____

C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____

D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____

E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____

F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[66] **VERIFY** the following Slave Relays are ACTUATED at:
2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[67] **VERIFY** the following Slave Relays are ACTUATED at
2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[68] **PLACE** PS/936A, Cntmt Hi Hi Press Ch2 bistable, at 2-R-7,
in NORMAL. _____

[69] **POSITION** the following handswitches at 2-M-4,
to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL,
to RESET. _____

[70] **PRESS** the following pushbuttons at 2-M-6:

- A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____
- B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____
- C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____
- D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[71] **VERIFY** the following:

- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in CLEAR. _____
- B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in CLEAR. _____
- C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
- D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____
- E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
- F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

[72] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[73] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[74] **PLACE** PS/935A, Cntmt Hi Hi Press Ch3 bistable, at 2-R-11, in TRIP. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[75] **VERIFY** the following: **(Acc Crit)**

- A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____
- B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____
- C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____
- D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____
- E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____
- F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

[76] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[77] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[78] **PLACE** PS/934A, Cntmt Hi Hi Press Ch4, at 2-R-28, in NORMAL. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[79] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

[80] **PRESS** the following pushbuttons at 2-M-6:

A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____

B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____

C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____

D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____

[81] **VERIFY** the following:

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____

D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____

F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[82] **VERIFY** the following Slave Relays are RESET at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[83] **VERIFY** the following Slave Relays are RESET at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[84] **PLACE** PS/936A, Cntmt Hi Hi Press Ch2 bistable, at 2-R-7, in TRIP. _____

[85] **VERIFY** the following (Acc Crit):

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is in ALARM. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____

C. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is ON. _____

D. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____

E. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is ON. _____

F. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is ON. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[86] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[87] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[88] **PLACE** the following bistables in NORMAL:

- A. PS/936A, Cntmt Hi Hi Press Ch2, at 2-R-7. _____
- B. PS/935A, Cntmt Hi Hi Press Ch3, at 2-R-11. _____

[89] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[90] **PRESS** the following pushbuttons at 2-M-6:

- A. 2-HS-30-64D, ØB CNTMT ISOL RESET TR-A. _____
- B. 2-HS-30-64E, ØB CNTMT ISOL RESET TR-B. _____
- C. 2-HS-72-43, CNTMT SPRAY PMP A RESET. _____
- D. 2-HS-72-42, CNTMT SPRAY PMP B RESET. _____

[91] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL, is CLEAR. _____
- B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____
- C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____
- D. Trip Status Light 19 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-45A, is OFF. _____
- E. Trip Status Light 39 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-44A, is OFF. _____
- F. Trip Status Light 59 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-43A, is OFF. _____
- G. Trip Status Light 79 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI-HI PDS-30-42A, is OFF. _____
- H. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
- I. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____
- J. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
- K. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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6.3 Containment Hi-Hi Pressure Steam Line Isolation (continued)

[92] **VERIFY** the following Slave Relays are RESET at 2-R-48:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

[93] **VERIFY** the following Slave Relays are RESET at 2-R-51:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

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6.4 Pressurizer Pressure P-11

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.4 have been completed. _____
- [2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at Panel 2-R-47, in A + B. _____
- [3] **ENSURE** the following bistables are in TRIP:
 - A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1, at 2-R-1. _____
 - B. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____
 - C. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____
- [4] **VERIFY** the following:
 - A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 14, (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-340B, is ON. _____
 - C. Trip Status Light 34, (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-334B, is ON. _____
 - D. Trip Status Light 54, (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-323B, is ON. _____
 - E. ICS point P0492D (PZR LO PRESSURE 1 SI TR PART BLOCK) indicates, RESET. _____
 - F. ICS point P0493D (PZR LO PRESSURE 2 SI TR PART BLOCK) indicates, RESET. _____
 - G. ICS point P0494D (PZR LO PRESSURE 3 SI TR PART BLOCK) indicates, RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

- [5] **VERIFY** a RESET contact state for 2-RLY-99-K628, in 2-R-48:
- A. TB649 5,6 OPEN. _____
 - B. TB649 7, 8 OPEN. _____
 - C. TB649 9,10 CLOSED. _____
 - D. TB649 11,12 CLOSED. _____
- [6] **VERIFY** a RESET contact state for 2-RLY-99-K628, in 2-R-51:
- A. TB649 5,6 OPEN. _____
 - B. TB649 7, 8 OPEN. _____
 - C. TB649 9,10 CLOSED. _____
 - D. TB649 11,12 CLOSED. _____
- [7] **PLACE** PS/456B, (PZR Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in NORMAL. _____
- [8] **VERIFY** the following:
- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 34 (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-334B, is OFF. _____
 - C. ICS point P0493D (PZR LO PRESSURE 2 SI TR PART BLOCK) indicates SET. _____
- [9] **VERIFY** the following:
- A. 2-RLY-99-K628, in 2-R-48, remains RESET. **(Acc Crit)** _____
 - B. 2-RLY-99-K628, in 2-R-51, remains RESET. **(Acc Crit)** _____

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6.4 Pressurizer Pressure P-11 (continued)

- [10] **PLACE** PS/456B, (PZR Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in TRIP. _____
- [11] **VERIFY** the following:
- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 34, (2-XX-55-6A, 2-M-6), PZR PRESS H1>P11 PS-68-334B, is ON. _____
 - C. ICS point P0493D (PZR LO PRESSURE 2 SI TR PART BLOCK) indicates RESET. _____
- [12] **VERIFY** the following:
- A. 2-RLY-99-K628, in 2-R-48, remains RESET. _____
 - B. 2-RLY-99-K628, in 2-R-51, remains RESET. _____
- [13] **PLACE** PS/457B, (PZR Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, to NORMAL. _____
- [14] **VERIFY** the following:
- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 54, (2-XX-55-6A, 2-M-6), PZR PRESS HP>P11 PS-60-323B, is OFF. _____
 - C. ICS point P0494D (PZR LO PRESSURE 3 SI TR PART BLOCK) indicates SET. _____
- [15] **VERIFY** the following:
- A. 2-RLY-99-K628, in 2-R-48, remains RESET. **(Acc Crit)** _____
 - B. 2-RLY-99-K628, in 2-R-51, remains RESET. **(Acc Crit)** _____

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6.4 Pressurizer Pressure P-11 (continued)

- [16] **PLACE** PS/457B, (Pzr Press) Enable Manual Block of SI ch3 bistable, at 2-R-9, in TRIP. _____
- [17] **VERIFY** the following:
- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 54 (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-323B, is ON. _____
 - C. ICS point P0494D (PZR LO PRESSURE 3 SI TR PART BLOCK) indicates, RESET. _____
- [18] **VERIFY** the following:
- A. 2-RLY-99-K628, in 2-R-48, remains RESET. _____
 - B. 2-RLY-99-K628, in 2-R-51, remains RESET. _____
- [19] **PLACE** PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-1, to NORMAL. _____
- [20] **VERIFY** the following:
- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
 - B. Trip Status Light 14 (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-340B, is OFF. _____
 - C. ICS point P0492D (PZR LO PRESSURE 1 SI TR PART BLOCK) indicates, SET. _____
- [21] **VERIFY** the following:
- A. 2-RLY-99-K628, in 2-R-48, remains RESET. **(Acc Crit)** _____
 - B. 2-RLY-99-K628, in 2-R-51, remains RESET. **(Acc Crit)** _____
- [22] **PLACE** PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-1, to TRIP. _____

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6.4 Pressurizer Pressure P-11 (continued)

[23] **VERIFY** the following:

- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- B. Trip Status Light 14, (2-XX-55-6A, 2-M-6), PZR PRESS HI>P11 PS-68-340B, is ON. _____
- C. ICS point P0492D (PZR LO PRESSURE 1 SI TR PART BLOCK) indicates, RESET. _____

[24] **VERIFY** the following:

- A. 2-RLY-99-K628, in 2-R-48, remains RESET. _____
- B. 2-RLY-99-K628, in 2-R-51, remains RESET. _____

[25] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, to NORMAL. _____

[26] **POSITION** the following bistables to NORMAL:

- A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1, at 2-R-1. _____
- B. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____

[27] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. **(Acc Crit)** _____

[28] **VERIFY** ACTUATED contact state for 2-RLY-99-K628, in 2-R-48:

- A. TB 649 5,6 CLOSED. _____
- B. TB 649 7,8 CLOSED. _____
- C. TB 649 9,10 OPEN. _____
- D. TB 649 11,12 OPEN. _____

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6.4 Pressurizer Pressure P-11 (continued)

- [29] **VERIFY** ACTUATED contact state for 2-RLY-99-K628, in 2-R-51:
- A. TB 649 5,6 CLOSED. _____
 - B. TB 649 7,8 CLOSED. _____
 - C. TB 649 9,10 OPEN. _____
 - D. TB 649 11,12 OPEN. _____
- [30] **PLACE** PS/456B, (Pzr Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5 to TRIP. _____
- [31] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- [32] **VERIFY** RESET contact state for 2-RLY-99-K628, in 2-R-48:
- A. TB649 5,6 OPEN. _____
 - B. TB649 7,8 OPEN. _____
 - C. T8649 9,10 CLOSED. _____
 - D. TB649 11,12 CLOSED. _____
- [33] **VERIFY** RESET contact state for 2-RLY-99-K628, in 2-R-51:
- A. TB649 5,6 OPEN. _____
 - B. TB649 7,8 OPEN. _____
 - C. TB649 9,10 CLOSED. _____
 - D. TB649 11,12 CLOSED. _____
- [34] **PLACE** PS/457B (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9 to NORMAL. _____
- [35] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. **(Acc Crit)** _____

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6.4 Pressurizer Pressure P-11 (continued)

[36] **VERIFY** the following:

A. 2-RLY-99-K628, at 2-R-48, is ACTUATED. _____

B. 2-RLY-99-K628, at 2-R-51, is ACTUATED. _____

[37] **PLACE** PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-1, to TRIP. _____

[38] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____

[39] **VERIFY** the following:

A. 2-RLY-99-K628, at 2-R-48, is RESET. _____

B. 2-RLY-99-K628, at 2-R-51, is RESET. _____

[40] **PLACE** PS/456B, (Pzr Press) Enable Manual Block of SI CH2 bistable, at 2-R-5, to NORMAL. _____

[41] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE is in ALARM. **(Acc Crit)** _____

[42] **VERIFY** the following:

A. 2-RLY-99-K628, at 2-R-48, is ACTUATED. _____

B. 2-RLY-99-K628, at 2-R-51, is ACTUATED. _____

[43] **PLACE** PS/457B, (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, to TRIP. _____

[44] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____

[45] **VERIFY** the following:

A. 2-RLY-99-K628, at 2-R-48, is RESET. _____

B. 2-RLY-99-K628, at 2-R-51, is RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

NOTE

The following steps demonstrate the Pressurizer Low Pressure P-11 Block of Pressurizer Low Pressure - SI, Main Steamline Low Pressure SI and enable of the High Steam Pressure Rate-Main Steamline Isolation.

- [46] **PLACE** PS/457B, (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9 to NORMAL. _____
- [47] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. _____
- [48] **POSITION** the following bistables to TRIP:
 - A. PS/456D, (Pzr Press) Lo Press SI Ch2, at 2-R-5. _____
 - B. PS/457D (Pzr Press) Lo Press SI Ch3, at 2-R-9. _____
- [49] **VERIFY** 2-XA-55-4D-77G, SI PZR PRESS Lo, is in ALARM. _____
- [50] **PLACE** PS/456D, (Pzr Press) Lo Press SI Ch2 bistable, at 2-R-5, to NORMAL. _____
- [51] **PRESS** the following pushbuttons, at 2-M-6:
 - A. 2-HS-63-134A, SI RESET TR-A. _____
 - B. 2-HS-63-134B, SI RESET TR-B. _____
- [52] **VERIFY** 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- [53] **PLACE** Handswitch 2-HS-63-136B, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK and **VERIFY** the following: **(Acc Crit)**
 - A. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
 - B. ICS point P0495D (PZR LO PRESSURE SI TR-A BLOCK) indicates, RESET. _____
 - C. ICS point P0496D (PZR LO PRESSURE SI TR-B BLOCK) indicates, SET. _____

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6.4 Pressurizer Pressure P-11 (continued)

[54] **PLACE** Handswitch 2-HS-63-136A, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK and **VERIFY** the following:
(Acc Crit)

- A. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED,
is in ALARM. _____
- B. 2-XA-55-4D-77G, SI PZR PRESS LO, remains CLEAR. _____
- C. ICS point P0495D (PZR LO PRESS SI TR-A BLOCK)
indicates, SET. _____

[55] **PLACE** PS/456D, (Pzr Press) Lo Press SI Ch2 bistable, at 2-R-5, to TRIP. _____

[56] **VERIFY** the following:

- A. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI
BLOCK PERMISSIVE, is in ALARM. _____
- B. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED,
remains in ALARM. _____
- C. 2-XA-55-4D-77G, SI PZR PRESS Lo,
remains CLEAR. _____

[57] **POSITION** the following bistables to TRIP:

- A. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2,
at 2-R-5. _____
- B. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3,
at 2-R-9. _____

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6.4 Pressurizer Pressure P-11 (continued)

[58] **VERIFY** the following:

- A. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- B. 2-XA-55-4D-77G, SI PZR PRESS LO, is in ALARM. _____
- C. ICS point P0495D (PZR LO PRESSURE SI TR-A BLOCK) indicates, RESET. _____
- D. ICS point P0496D (PZR LO PRESSURE SI TR-B BLOCK) indicates, RESET. _____
- E. 2-RLY-99-K609, at 2-R-48, is ACTUATED. _____
- F. 2-RLY-99-K609, at 2-R-51, is ACTUATED. _____

[59] **PLACE** Handswitch 2-HS-63-136A, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK. _____

[60] **VERIFY** ICS point P0495D (PZR LO PRESSURE SI TR-A BLOCK) remains RESET. _____

[61] **PLACE** Handswitch 2-HS-63-136B, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK and **VERIFY** the following:

- A. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, remains CLEAR. _____
- B. 2-XA-55-4D-77G, SI PZR PRESS LO, remains in ALARM. _____
- C. ICS point P0496D (PZR LO PRESSURE SI TR-B BLOCK) remains RESET. _____

[62] **POSITION** the following bistables to NORMAL:

- A. PS/456B, (Pzr Pressure) Enable Manual Block of SI Ch2, at 2-R-5. _____
- B. PS/457B, (Pzr Pressure) Enable Manual Block of SI Ch3, at 2-R-9. _____

[63] **VERIFY** 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. _____

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6.4 Pressurizer Pressure P-11 (continued)

[64] **PLACE** Handswitch 2-HS-63-136A, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK. _____

[65] **VERIFY** ICS point P0495D (PZR LO PRESSURE SI TR-A BLOCK) indicates, SET. _____

NOTE

Step 6.4[62] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the following step.

[66] **PRESS** the following pushbuttons, at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

[67] **VERIFY** 2-RLY-99-K609, at 2-R-48, is RESET. _____

[68] **VERIFY** 2-RLY-99-K609, at 2-R-51, remains ACTUATED. _____

[69] **PLACE** Handswitch 2-HS-63-136B, LO PZR PRESS SI BLOCK, at 2-M-4, to BLOCK. _____

NOTE

Step 6.4[62] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the following step.

[70] **PRESS** pushbutton 2-HS-63-134B, SI RESET TR-B, at 2-M-6. _____

[71] **VERIFY** 2-RLY-99-K609, at 2-R-51, is RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

[72] **POSITION** the following:

- A. PS/456D, (PZR Press) Lo Press SI Ch2 bistable, at 2-R-5 to NORMAL. _____
- B. PS/456B, (PZR Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5, to TRIP. _____
- C. PS/457D, (PZR Press) Lo Press SI Ch3 bistable, at 2-R-9 to NORMAL. _____
- D. PS/457B, (PZR Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, to Trip. _____

[73] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- D. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- E. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____

[74] **POSITION** the following bistables to TRIP:

- A. PS/515A, (Stm Press) Lo Press SI Ch2, at 2-R-7. _____
- B. PS/516A, (Stm Press) Lo Press SI Ch4, at 2-R-12. _____

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6.4 Pressurizer Pressure P-11 (continued)

[75] **VERIFY** the following:

- A. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- B. 2-RLY-99-K609, at 2-R-48, is ACTUATED. _____
- C. 2-RLY-99-K616, at 2-R-48, is ACTUATED. _____
- D. 2-RLY-99-K609, at 2-R-51, is ACTUATED. _____
- E. 2-RLY-99-K616, at 2-R-51, is ACTUATED. _____

[76] **POSITION** PS/515A, (Stm Press) Lo Press SI Ch2 bistable, at 2-R-7, to NORMAL. _____

NOTE

Step 6.4[62] starts a timed sequence. Due to a time delay, wait at lest 120 seconds before performing the following step.

[77] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

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6.4 Pressurizer Pressure P-11 (continued)

[78] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1,
in CLOSE/PULL TO RESET. _____

[79] **VERIFY** the following:

- A. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR _____
- B. 2-RLY-99-K609, at 2-R-48, is RESET. _____
- C. 2-RLY-99-K616, at 2-R-48, is RESET. _____
- D. 2-RLY-99-K609, at 2-R-51, is RESET. _____
- E. 2-RLY-99-K616, at 2-R-51, is RESET. _____

[80] **POSITION** the following bistables to TRIP:

- A. PS/515C, Hi Neg Rate Stm Press Lp1 Ch2, at 2-R-7. _____
- B. PS/516C, Hi Neg Rate Stm Press Lp1 Ch4, at 2-R-12. _____

[81] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS
RATE SLI-ACTIVE (P-11), remains CLEAR _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- C. 2-RLY-99-K609, at 2-R-48, remains RESET. _____
- D. 2-RLY-99-K616, at 2-R-48, remains RESET. _____
- E. 2-RLY-99-K609, at 2-R-51, remains RESET. _____
- F. 2-RLY-99-K616, at 2-R-51, remains RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

- [82] **PLACE** PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, to NORMAL. _____
- [83] **PLACE** PS/515A, (Stm Press) Lo Press SI Ch2 bistable, at 2-R-7, to TRIP. _____
- [84] **VERIFY** the following:
- A. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
 - B. 2-RLY-99-K609, at 2-R-48, is ACTUATED. _____
 - C. 2-RLY-99-K616, at 2-R-48, is ACTUATED. _____
 - D. 2-RLY-99-K609, at 2-R-51, is ACTUATED. _____
 - E. 2-RLY-99-K616, at 2-R-51, is ACTUATED. _____
- [85] **POSITION** the following bistables to NORMAL:
- A. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____
 - B. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____
- [86] **VERIFY** the following:
- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), remains CLEAR. _____
 - B. 2-XA-55-4A-69A, P11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. _____
 - C. 2-XA-55-4D-79G, SI STM PRESS LO, remains in ALARM. _____
 - D. 2-RLY-99-K609, at 2-R-48, remains ACTUATED. _____
 - E. 2-RLY-99-K616, at 2-R-48, remains ACTUATED. _____
 - F. 2-RLY-99-K609, at 2-R-51, remains ACTUATED. _____
 - G. 2-RLY-99-K616, at 2-R-51, remains ACTUATED. _____

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6.4 Pressurizer Pressure P-11 (continued)

[87] **PLACE** Handswitch 2-HS-63-135B, LO STEAM PRESS SI BLOCK, at 2-M-4, to BLOCK and **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), remains CLEAR. _____
- B. ICS point P0470D (STEAM LINE SI BLOCK TR-A) indicates, RESET. _____
- C. ICS point P0474D (STEAM LINE SI BLOCK TR-B) indicates, SET. _____

NOTE

Step 6.4[62] starts a timed sequence. Due to a time delay, wait at lest 120 seconds before performing the following step.

[88] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[89] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

[90] **VERIFY** the following (**Acc Crit**):

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM SLI-ACTIVE (P-11), remains CLEAR _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains in ALARM. _____
- C. ICS point P0470D (STEAM LINE SI BLOCK TR-A) remains RESET. _____
- D. ICS point P0474D (STEAM LINE SI BLOCK TR-B) remains SET. _____
- E. 2-RLY-99-K609, at 2-R-48, remains ACTUATED. _____
- F. 2-RLY-99-K616, at 2-R-48, remains ACTUATED. _____
- G. 2-RLY-99-K609, at 2-R-51, is RESET. _____
- H. 2-RLY-99-K616, at 2-R-51, is RESET. _____

[91] **PLACE** Handswitch 2-HS-63-135A, LO STEAM PRESS SI BLOCK, at 2-M-4, to BLOCK and **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- C. ICS point P0470D (STEAM LINE SI BLOCK TR-A) indicates, SET. _____

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6.4 Pressurizer Pressure P-11 (continued)

NOTE

Step 6.4[62] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the following step.

[92] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- C. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____

[93] **POSITION** the following handswitches at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

[94] **VERIFY** the following:

- A. 2-RLY-99-K609, at 2-R-48, is RESET. **(Acc Crit)** _____
- B. 2-RLY-99-K616, at 2-R-48, is RESET. **(Acc Crit)** _____

[95] **POSITION** the following bistables to TRIP:

- A. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____
- B. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____

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6.4 Pressurizer Pressure P-11 (continued)

[96] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- D. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- E. ICS point P0470D (STEAM LINE SI BLOCK TR-A) indicates, RESET. _____
- F. ICS point P0474D (STEAM LINE SI BLOCK TR-B) indicates, RESET. _____
- G. 2-RLY-99-K609, at 2-R-48, is ACTUATED. _____
- H. 2-RLY-99-K616, at 2-R-48, is ACTUATED. _____
- I. 2-RLY-99-K609, at 2-R-51, is ACTUATED. _____
- J. 2-RLY-99-K616, at 2-R-51, is ACTUATED. _____

[97] **PLACE** PS/515A, (STM PRESS) Lo Press SI Ch2 bistable, at 2-R-7, in NORMAL. _____

NOTE

Step 6.4[95] starts a timed sequence. Due to time delay, wait at least 120 seconds before performing the next step.

[98] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

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6.4 Pressurizer Pressure P-11 (continued)

E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____

F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[99] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

[100] **POSITION** the following handswitches, at 2-M-4, to reset
Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO
RESET. _____

[101] **VERIFY** the following:

A. 2-RLY-99-K609, at 2-R-48, is RESET. _____

B. 2-RLY-99-K616, at 2-R-48, is RESET. _____

C. 2-RLY-99-K609, at 2-R-51, is RESET. _____

D. 2-RLY-99-K616, at 2-R-51, is RESET. _____

[102] **POSITION** the following bistables to NORMAL:

A. P5/456B, (Pzr Press) Enable Manual Block of SI Ch2,
at 2-R-5. _____

B. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3,
at 2-R-9. _____

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6.4 Pressurizer Pressure P-11 (continued)

[103] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), remains CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is in ALARM. _____

[104] **PLACE** the following Handswitches at 2-M-4, to BLOCK:

- A. 2-HS-63-135A, LO STM PRESS SI BLOCK. _____
- B. 2-HS-63-135B, LO STM PRESS SI BLOCK. _____

[105] **VERIFY** 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11) is in ALARM. _____

[106] **PLACE** PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, to TRIP. _____

[107] **VERIFY** the following:
(Acc Crit)

- A. 2-XA-55-4A-68B, LO STM SI-BLKD STM PRESS RATE SL1-ACTIVE (P-11), remains in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LOW, is CLEAR. _____
- C. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is in ALARM. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, TRIP. _____
- E. 2-RLY-99-K616, at 2-R-48, is ACTUATED. _____
- F. 2-RLY-99-K616, at 2-R-51, is ACTUATED. _____

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6.4 Pressurizer Pressure P-11 (continued)

[108] **POSITION** the following bistables to TRIP:

- A. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____
- B. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____

[109] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4D-79G, SI STM PRESS LOW, remains CLEAR. _____
- D. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- E. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____

[110] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[111] **VERIFY** the following:

- A. 2-RLY-99-K616, at 2-R-48, is RESET. _____
- B. 2-RLY-99-K616, at 2-R-51, is RESET. _____

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6.4 Pressurizer Pressure P-11 (continued)

[112] **POSITION** the following bistables to NORMAL:

- A. PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable,
at 2-R-7. _____
- B. PS/516C, Hi Neg Rate Stm Press Lp1 Ch4 bistable,
at 2-R-12. _____
- C. PS/516A, (Stm Press) Lo Press SI Ch4 bistable,
at 2-R-12. _____

[113] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS
RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI
BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE
ISOL (<P11), is CLEAR. _____
- D. Trip Status Light 14 (2-XX-55-6A, 2-M-6), PZR PRESS
HI>P11 PS-68-340B, is ON. _____
- E. Trip Status Light 34, (2-XX-55-6A, 2-M-6), PZR PRESS
HI>P11 PS-68-334B, is ON. _____
- F. Trip Status Light 54, (2-XX-55-6A, 2-M-6), PZR PRESS
HI>P11 PS-68-323B, is ON. _____
- G. ICS point P0492D (PZR LO PRESSURE 1 SI TR PART
BLOCK) indicates, RESET. _____
- H. ICS point P0493D (PZR LO PRESSURE 2 SI TR PART
BLOCK) indicates, RESET. _____
- I. ICS point P0494D (PZR LO PRESSURE 3 SI TR PART
BLOCK) indicates, RESET. _____
- J. 2-RLY-99-K628 at 2-R-48, is RESET. _____
- K. 2-RLY-99-K628, at 2-R-51, is RESET. _____

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6.5 Low Pressurizer Pressure Safety Injection

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.5 have been completed. _____

[2] **OPEN** the Switched Jumpers (P-4 Test Switch) to simulate Reactor NOT TRIPPED, in the following locations:

A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____

B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____

[3] **ENSURE** the following:

A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-1 in TRIP. _____

B. PS/455D, (Pzr Press) Lo Press SI Ch1 bistable, 2-R-1, in NORMAL. _____

C. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5 in TRIP. _____

D. PS/456D, (Pzr Press) Lo Press SI Ch2 bistable, at 2-R-5, in NORMAL. _____

E. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, in TRIP. _____

F. PS/457D, (Pzr Press) Lo Press SI Ch3 bistable, at 2-R-9, in NORMAL. _____

G. Handswitch 2-HS-63-136A, LO PZR PRESS SI BLOCK-P11, at 2-M-4, in NORMAL. _____

H. Handswitch 2-HS-63-136B, LO PZR PRESS SI BLOCK-P11, at 2-M-4, in NORMAL. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[4] **VERIFY** the following:

- A. 2-XA-55-6C-124D, PZR LO PRESS SI, is CLEAR. _____
- B. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED,
is CLEAR. _____
- C. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- D. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- E. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- F. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- G. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- H. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- I. Trip Status Light 13 (2-XX-55-6A, 2-M-6), PZR PRESS
LO SI PS-68-340D, is OFF. _____
- J. Trip Status Light 33 (2-XX-55-6A, 2-M-6), PZR PRESS
LO SI PS-68-334D, is OFF. _____
- K. Trip Status Light 53 (2-XX-55-6A, 2-M-6), PZR PRESS
LO SI PS-68-323D, is OFF. _____
- L. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
is OFF. _____
- M. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- N. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____
- O. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA,
is OFF. _____
- P. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is OFF. _____
- Q. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[5] **VERIFY** 42VDC (\geq 35VDC) on the following UV Coil Meters:

A. M501 at Panel 2-R-47. _____

B. M501 at Panel 2-R-50. _____

[6] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K620 _____

Q. 2-RLY-99-K621 _____

R. 2-RLY-99-K622 _____

S. 2-RLY-99-K630 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

T. 2-RLY-99-K647 _____

U. 2-RLY-99-K649 _____

[7] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K620 _____

Q. 2-RLY-99-K621 _____

R. 2-RLY-99-K622 _____

S. 2-RLY-99-K630 _____

T. 2-RLY-99-K647 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

- U. 2-RLY-99-K649 _____
- [8] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH at 2-R-47, in A + B. _____
- [9] **PLACE** PS/456D, (Pzr Press) Lo Press SI Ch2 bistable, at 2-R-5, in TRIP. _____
- [10] **VERIFY** the following:
 - A. 2-XA-55-4A-70A, SI ACTUATED, remains CLEAR. _____
 - B. 2-XA-55-4D-77G, SI PZR PRESS LO, remains CLEAR. _____
 - C. 2-XA-55-6C-124D, PZR LO PRESS SI, is in ALARM. _____
 - D. Trip Status Light 33 (2-XX-55-6A, 2-M-6), PZR PRESS LO SI PS-68-334D, is ON. _____
 - E. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____
 - F. ICS point P0490D (PZR LO PRESSURE 2 SI PARTIAL RX TRIP) indicates, TRIP. _____
 - G. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A remains OFF. _____
 - H. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, remains OFF. _____
 - I. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, remains OFF. _____
 - J. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A remains OFF. _____
 - K. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, remains OFF. _____
 - L. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW; remains OFF. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[11] **VERIFY** 42VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at Panel 2-R-47. _____

B. M501 at Panel 2-R-50. _____

[12] **PLACE** PS/456D, (PZR Press) Lo Press SI Ch2 bistable, at 2-R-5, in NORMAL. _____

[13] **VERIFY** the following:

A. 2-XA-55-6C-124D, PZR LO PRESS SI, is CLEAR. _____

B. Trip Status Light 33 (2-XX-55-6A, 2-M-6), PZR PRESS LO SI PS-68-334D, is OFF. _____

C. ICS point P0490D (PZR LO PRESSURE 2 SI PARTIAL RX TRIP) indicates, NOT TR. _____

[14] **PLACE** PS/457D, (PZR Press) Lo Press SI Ch3, at 2-R-9, in TRIP. _____

[15] **VERIFY** the following:

A. 2-XA-55-4A-70A, SI ACTUATED, remains CLEAR. _____

B. 2-XA-55-4D-77G, SI PZR PRESS LO, remains CLEAR. _____

C. 2-XA-55-6C-124D, PZR LO PRESS SI, is in ALARM. _____

D. Trip Status Light 53 (2-XX-55-6A, 2-M-6), PZR PRESS LO SI PS-68-323D, is ON. _____

E. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____

F. ICS point P0491D (PZR LO PRESSURE 3 SI PARTIAL RX TRIP) indicates, TRIP. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[16] **PLACE** PS/457D, (PZR Press) Lo Press SI Ch3 bistable, at 2-R-9, in NORMAL. _____

[17] **VERIFY** the following:

A. 2-XA-55-6C-124D, PZR LO PRESS SI, is CLEAR. _____

B. Trip Status Light 53 (2-XX-55-6A, 2-M-6), PZR PRESS LO SI PS-68-323D, is OFF. _____

C. ICS point P0491D (PZR LO PRESSURE 3 SI PARTIAL RX TRIP) indicates, NOT TR. _____

[18] **PLACE** PS/455D, (PZR PRESS) LO PRESS SI Ch1 bistable, at 2-R-1, in TRIP. _____

[19] **VERIFY** the following;

A. 2-XA-55-4A-70A, SI ACTUATED, remains CLEAR. _____

B. 2-XA-55-4D-77G, SI PZR PRESS LO, remains CLEAR. _____

C. 2-XA-55-6C-124D, PZR LO PRESS SI, is in ALARM. _____

D. Trip Status Light 13 (2-XX-55-6A, 2-M-6), PZR PRESS LO SI PS-68-340D, is ON. _____

E. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____

F. ICS point P0489D (PZR LO PRESSURE 1 SI PARTIAL RX TRIP) indicates, TRIP. _____

[20] **POSITION** PS/455D, (PZR Press) Lo Press SI Ch1 bistable, at 2-R-1, in NORMAL. _____

[21] **VERIFY** the following:

A. 2-XA-55-6C-124D, PZR LO PRESS SI, is CLEAR. _____

B. Trip Status Light 13 (2-XX-55-6A, 2-M-6), PZR PRESS LO) SI PS-68-340D, is OFF. _____

C. ICS point P0489D (PZR LO PRESSURE 1 SI PARTIAL RX TRIP) indicates, NOT TR. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[22] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[23] **PLACE** the Train A SSPS Multiplexer Test Switch, at 2-R-47, in NORMAL. _____

[24] **POSITION** the following bistables to TRIP:

A. PS/455D, (Pzr Press) Lo Press SI Ch1, at 2-R-1. _____

B. PS/456D, (Pzr Press) Lo Press SI Ch2, at 2-R-5. _____

[25] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4D-77G, SI PZR LO PRESS SI, is in ALARM. _____

C. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____

D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[26] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:
(Acc Crit)

A. M501 at 2-R-47.

B. M501 at 2-R-50.

| | | |
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6.5 Low Pressurizer Pressure Safety Injection (continued)

[27] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48:

- | | | | |
|----|---------------|------------|-------|
| A. | 2-RLY-99-K601 | (Acc Crit) | _____ |
| B. | 2-RLY-99-K602 | (Acc Crit) | _____ |
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K620 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| T. | 2-RLY-99-K647 | (Acc Crit) | _____ |
| U. | 2-RLY-99-K649 | (Acc Crit) | _____ |

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[28] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

- | | | | |
|----|---------------|------------|-------|
| A. | 2-RLY-99-K601 | (Acc Crit) | _____ |
| B. | 2-RLY-99-K602 | (Acc Crit) | _____ |
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K620 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| T. | 2-RLY-99-K647 | (Acc Crit) | _____ |
| U. | 2-RLY-99-K649 | (Acc Crit) | _____ |

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[29] **PLACE** PS/456D, (PZR Press) Lo Press SI Ch2 bistable, in NORMAL. _____

[30] **VERIFY** the following:

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____

C. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____

D. UV Coil Meter, at 2-R-47, indicates 42 VDC (\geq 35 VDC). _____

E. UV Coil Meter, at 2-R-51, indicates 42 VDC (\geq 35 VDC). _____

NOTE

Step 6.5[24] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[31] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____

D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

E. 2-HS-30-63D, \emptyset A CNTMT ISOL RESET TR-A. _____

F. 2-HS-30-63E, \emptyset A CNTMT ISOL RESET TR-B. _____

[31.1] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[32] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[33] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[34] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[35] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[36] **PLACE** PS/457D, (Pzr Press) Lo Press SI CH3 bistable, at 2-R-9, in TRIP. _____

[37] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4D-77G, SI PZR PRESS LO, is in ALARM. _____

C. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____

D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[38] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters: **(Acc Crit)**

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[39] **PLACE** PS/455D, (Pzr Press) Lo Press SI Ch1 bistable, at 2-R-1, in NORMAL. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[40] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- C. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____
- D. UV Coil Meter, at 2-R-47, indicates 42 VDC (\geq 35 VDC). _____
- E. UV Coil Meter, at 2-R-50, indicates 42 VDC (\geq 35 VDC). _____

NOTE

Step 6.5[24] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[41] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, \emptyset A CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, \emptyset A CNTMT ISOL RESET TR-B. _____

[42] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[43] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[44] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV COIL Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[45] **PLACE** PS/456D, (PZR Press) Lo Press SI Ch2 bistable, at 2-R-5, in TRIP. _____

[46] **VERIFY** the following **(Acc Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-77G, SI PZR PRESS LO, is in ALARM. _____
- C. ICS point Y0480D (PZR LO PRESS SI CAUSES RX TRIP) indicates, TRIP. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[47] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV COIL Meters:
(Acc Crit)

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[48] **POSITION** the following bistables to NORMAL:

A. PS/456D, (Pzr Press) Lo Press SI Ch2, at 2-R-5. _____

B. PS/457D, (Pzr Press) Lo Press SI Ch3, at 2-R-9. _____

[49] **VERIFY** the following:

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____

C. ICS point Y0480D (PZR LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____

D. UV Coil Meter, at 2-R-47, indicates 42 VDC (≥ 35 VDC). _____

E. UV Coil Meter, at 2-R-50, indicates 42 VDC (≥ 35 VDC). _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

NOTE

Step 6.5[24] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[50] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[51] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

[52] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV COIL Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[53] **VERIFY** the following Slave Relays are RESET, at 2-R-48

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[54] **VERIFY** the following Slave Relays are RESET, at 2-R-51

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.5 Low Pressurizer Pressure Safety Injection (continued)

[55] **VERIFY** the following:

- A. 2-XA-55-6C-124D, PZR LO PRESS SI, is CLEAR. _____
- B. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- C. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- D. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- E. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- F. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- G. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- H. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- I. Trip Status Light 13 (2-XX-55-6A, 2-M-6) PZR PRESS LO
SI PS-68-340D, is OFF. _____
- J. Trip Status Light 33 (2-XX-55-6A, 2-M-6), PZR PRESS
LO SI PS-68-334D, is OFF. _____
- K. Trip Status Light 53 (2-XX-55-6A, 2-M-6), PZR PRESS
LO SI PS-68-323D, is OFF. _____
- L. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6) ØA,
is OFF. _____
- M. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- N. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____
- O. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA,
is OFF. _____
- P. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CV,
is OFF. _____
- Q. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

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6.6 High Steam Pressure Rate Steam Line Isolation

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.6 have been completed. _____

[2] **ENSURE** the following:

- A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-3, in TRIP. _____
- B. PS/514C, Hi Neg Rate Stm Press Lp1 Ch1 bistable, at 2-R-3, in NORMAL. _____
- C. PS/524C, Hi Neg Rate Stm Press Lp2 Ch1 bistable, at 2-R-3, in NORMAL. _____
- D. PS/534C, Hi Neg Rate Stm Press Lp3 Ch1 bistable, at 2-R-4, in NORMAL. _____
- E. PS/544C, Hi Neg Rate Stm Press Lp4 Ch1 bistable, at 2-R-4, in NORMAL. _____
- F. PS/456B, (PZR Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in TRIP. _____
- G. PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, in NORMAL. _____
- H. PS/535C, Hi Neg Rate Stm Press Lp3 Ch2 bistable, at 2-R-7, in NORMAL. _____
- I. PS/525C, Hi Neg Rate Stm Press Lp2 Ch2 bistable, at 2-R-8, in NORMAL. _____
- J. PS/545C, Hi Neg Rate Stm Press Lp4 Ch2 bistable, at 2-R-8, in NORMAL. _____
- K. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, in TRIP. _____
- L. PS/526C, Hi Neg Rate Stm Press Lp2 Ch3 bistable, at 2-R-11, in NORMAL. _____
- M. PS/536C, Hi Neg Rate Stm Press Lp3 Ch3 bistable, at 2-R-11, in NORMAL. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

N. PS/516C, Hi Neg Rate Stm Press Lp1 Ch4 bistable, at 2-R-12, in NORMAL. _____

O. PS/546C, Hi Neg Rate Stm Press Lp4 Ch4 bistable, at 2-R-12, in NORMAL. _____

[3] **VERIFY** the following:

A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is CLEAR. _____

B. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is CLEAR. _____

C. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is CLEAR. _____

D. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is CLEAR. _____

E. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____

F. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____

G. Trip Status Light 5 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2D, is OFF. _____

H. Trip Status Light 29 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2E, is OFF. _____

I. Trip Status Light 77 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-5B, is OFF. _____

J. Trip Status Light 6 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9D, is OFF. _____

K. Trip Status Light 30 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9E, is OFF. _____

L. Trip Status Light 54 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-12B, is OFF. _____

M. Trip Status Light 7 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20D, is OFF. _____

N. Trip Status Light 31 (2-XX-55-6B, 2-M-6) SG 3 PRESS-RATE PS-1-20E, is OFF. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

- O. Trip Status Light 55 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-23B, is OFF. _____
- P. Trip Status Light 8 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27D, is OFF. _____
- Q. Trip Status Light 32 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27E, is OFF. _____
- R. Trip Status Light 80 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-30B, is OFF. _____

[4] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[5] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[6] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, 2-R-47, in A + B. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[7] **POSITION** the following:

- A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1 bistable, at 2-R-1, in NORMAL. _____
- B. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in NORMAL. _____
- C. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3 bistable, at 2-R-9, in NORMAL. _____
- D. Handswitch 2-HS-63-135A, P11 LO STEAM PRESS SI BLOCK, in BLOCK. _____
- E. Handswitch 2-HS-63-135B, P11 LO STEAM PRESS SI BLOCK, in BLOCK. _____

[8] **VERIFY** 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is in ALARM. _____

[9] **PLACE** PS/514C, Hi Neg Rate Stm Press Lp1 Ch1 bistable, at 2-R-3, in TRIP. _____

[10] **VERIFY** the following:

- A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0401D (SL1 HI NEG RT PRESSURE 1 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 5 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2D, is ON. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[11] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[12] **VERIFY** the following Slave Relays remain RESET, at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[13] **PLACE** PS/514C, Hi Neg Rate Stm Press Lp1 Ch1 bistable, at 2-R-3, in NORMAL. _____

[14] **VERIFY** the following:

A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is CLEAR. _____

B. ICS point P0401D (SL1 HI NEG RT PRESSURE 1 PART SL ISOL) indicates, NOT TR. _____

C. Trip Status Light 5 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2D, is OFF. _____

[15] **PLACE** PS/524C, Hi Neg Rate Stm Press Lp2 Ch1 bistable, at 2-R-3, in TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[16] **VERIFY** the following:

- A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0421D (SL2 HI NEG RT PRESSURE 1 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 6 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9D, is ON. _____

[17] **PLACE** PS/524C, Hi Neg Rate Stm Press Lp2 Ch1 bistable, at 2-R-3, in NORMAL. _____

[18] **VERIFY** the following:

- A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0421D (SL2 HI NEG RT PRESS 1 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 6 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9D, is OFF. _____

[19] **PLACE** PS/534C, Hi Neg Rate Stm Press Lp3 Ch1 bistable, at 2-R-4, in TRIP. _____

[20] **VERIFY** the following:

- A. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE ISOL (<P11), is CLEAR. _____
- C. ICS point P0441D (SL3 HI NEG RT PRESS 1 PART SL ISOL) indicates, TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 7 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20D, is ON. _____
- [21] **PLACE** PS/534C, Hi Neg Rate Stm Press Lp3 Ch1 bistable, at 2-R-4, in NORMAL. _____
- [22] **VERIFY** the following:
 - A. 2-XA-55-6B-122-A, SG 3 PRESS NEG RATE, is CLEAR. _____
 - B. ICS point P0441D (SL3 HI NEG RT PRESS 1 PART SL ISOL) indicates, NOT TR. _____
 - C. Trip Status Light 7 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20D, is OFF. _____
- [23] **PLACE** PS/544C, Hi Neg Rate Stm Press Lp4 Ch1 bistable, at 2-R-4, in TRIP. _____
- [24] **VERIFY** the following:
 - A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is in ALARM. _____
 - B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
 - C. ICS point P0461D (SL4 HI NEG RT PRESS 1 PART SL ISOL) indicates, TRIP. _____
 - D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
 - E. Trip Status Light 8 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27D, is ON. _____
- [25] **PLACE** PS/544C, Hi Neg Rate Stm Press Lp4 Ch1 bistable, at 2-R-4, in NORMAL. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[26] **VERIFY** the following:

- A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0461D (SL4 HI NEG RT PRESS 1 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 8 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27D, is OFF. _____

[27] **PLACE** PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, in TRIP. _____

[28] **VERIFY** the following:

- A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0402D (SL1 HI NEG RT PRESS 2 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 29 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2E, is ON. _____

[29] **PLACE** PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, in NORMAL. _____

[30] **VERIFY** the following:

- A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0402D (SL1 HI NEG RT PRESS 2 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 29 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2E, is OFF. _____

[31] **PLACE** PS/535C, Hi Neg Rate Stm Press Lp3 Ch2 bistable, at 2-R-7, in TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[32] **VERIFY** the following:

- A. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0442D (SL3 HI NEG RT PRESS 2 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 31 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20E, is ON. _____

[33] **PLACE** PS/535C, Hi Neg Rate Stm Press Lp3 Ch2 bistable, at 2-R-7, in NORMAL. _____

[34] **VERIFY** the following:

- A. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0442D (SL3 HI NEG RT PRESS 2 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 31 (2-XX-55-6B, 2-M-6) SG 3 PRESS-RATE PS-1-20E, is OFF. _____

[35] **PLACE** PS/525C, Hi Neg Rate Stm Press Lp2 Ch2 bistable, at 2-R-8, in TRIP. _____

[36] **VERIFY** the following:

- A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0422D (SL2 HI NEG RT PRESSURE 2 PART SL ISOL) indicates, TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 30 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9E, is ON. _____
- [37] **PLACE** PS/525C, Hi Neg Rate Stm Press Lp2 Ch2 bistable, at 2-R-8, in NORMAL. _____
- [38] **VERIFY** the following:
 - A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is CLEAR. _____
 - B. Trip Status Light 30 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9E, is OFF. _____
 - C. ICS point P0422D (SL2 HI NEG RT PRESSURE 2 PART SL ISOL) indicates, NOT TR. _____
- [39] **PLACE** PS/545C, Hi Neg Rate Stm Press Lp4 Ch2 bistable, at 2-R-8, in TRIP. _____
- [40] **VERIFY** the following:
 - A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is in ALARM. _____
 - B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
 - C. ICS point P0462D (SL4 HI NEG RT PRESS 2 PART SL ISOL) indicates, TRIP. _____
 - D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
 - E. Trip Status Light 32 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27E, is ON. _____
- [41] **PLACE** PS/545C, Hi Neg Rate Stm Press Lp4 Ch2 bistable, at 2-R-8, in NORMAL. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[42] **VERIFY** the following:

- A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is CLEAR. _____
- B. Trip Status Light 32 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27E, is OFF. _____
- C. ICS point P0462D (SL4 HI NEG RT PRESS 2 PART SL ISOL) indicates, NOT TR. _____

[43] **PLACE** PS/526C, Hi Neg Rate Stm Press Lp2 Ch3 bistable, at 2-R-11, in TRIP. _____

[44] **VERIFY** the following:

- A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0423D (SL2 HI NEG RT PRESS 3 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESS CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 54 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-12B, is ON. _____

[45] **PLACE** PS/526C, Hi Neg Rate Stm Press Lp2 Ch3 bistable, at 2-R-11, in NORMAL. _____

[46] **VERIFY** the following:

- A. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0423D (SL2 HI NEG RT PRESS 3 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 54 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-12B, is OFF. _____

[47] **PLACE** PS/536C, Hi Neg Rate Stm Press Lp3 Ch3 bistable, at 2-R-11, in TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[48] **VERIFY** the following:

- A. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is CLEAR. _____
- C. ICS point P0443D (SL3 HI NEG RT PRESS 3 PART SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESSURE CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 55 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE P5-1-23B, is ON. _____

[49] **PLACE** PS/536C, Hi Neg Rate Stm Press Lp3 Ch3 bistable, at 2-R-11, in NORMAL. _____

[50] **VERIFY** the following:

- A. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0443D (SL3 HI NEG RT PRESSURE 3 PART SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 55 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-23B, is OFF. _____

[51] **PLACE** PS/546C, Hi Neg Rate Stm Press Lp4 Ch4 bistable, at 2-R-12, in TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[52] **VERIFY** the following:

- A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE,
is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE
ISOL (<P11), is CLEAR. _____
- C. ICS point P0463D (SL4 HI NEG RT PRESSURE 3 PART
SL ISOL) indicates, TRIP. _____
- D. ICS point P0473D (SL HI NEG RT PRESSURE CAUS SL
ISOL) indicates, NOT TR. _____
- E. Trip Status Light 80 (2-XX-55-6B, 2-M-6), SG4 PRESS-
RATE PS-1-30B, is ON. _____

[53] **PLACE** PS/546C, Hi Neg Rate Stm Press Lp4 Ch4 bistable, at
2-R-12, in NORMAL. _____

[54] **VERIFY** the following:

- A. 2-XA-55-6B-123A, SG4 PRESS NEG RATE, is CLEAR. _____
- B. ICS point P0463D (SL4 HI NEG RT PRESSURE 3 PART
SL ISOL) indicates, NOT TR. _____
- C. Trip Status Light 80 (2-XX-55-6B, 2-M-6), SG4 PRESS-
RATE PS-1-30B, is OFF. _____

[55] **PLACE** PS/516C, Hi Neg Rate Stm Press Lp1 Ch4 bistable, at
2-R-12, in TRIP. _____

[56] **VERIFY** the following:

- A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE,
is in ALARM. _____
- B. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE
ISOL (<P11), is CLEAR. _____
- C. ICS point P0403D (SL1 HI NEG RT PRESSURE 3 PART
SL ISOL) indicates, TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

- D. ICS point P0473D (SL HI NEG RT PRESSURE CAUS SL ISOL) indicates, NOT TR. _____
- E. Trip Status Light 77 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-5B, is ON. _____
- [57] **PLACE** PS/516C, Hi Neg Rate Stm Press Lp1 Ch4 bistable, at 2-R-12, in NORMAL. _____
- [58] **VERIFY** the following:
 - A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE, is CLEAR. _____
 - B. ICS point P0403D (SL1 HI NEG RT PRESSURE 3 PART SL ISOL) indicates, NOT TR. _____
 - C. Trip Status Light 77 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-5B, is OFF. _____
- [59] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, NORMAL. _____
- [60] **POSITION** the following bistables to TRIP:
 - A. PS/514C, Hi Neg Rate Stm Press Lp1 Ch1, at 2-R-3. _____
 - B. PS/516C, Hi Neg Rate Stm Press Lp1 Ch4, at 2-R-12. _____
- [61] **VERIFY** the following:
 - A. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (<P11), is in ALARM. _____
 - B. ICS point P0473D (SL HI NEG RT PRESSURE CAUS SL ISOL) indicates, TRIP. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[62] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

A. 2-RLY-99-K616 (Acc Crit) _____

B. 2-RLY-99-K617 (Acc Crit) _____

C. 2-RLY-99-K623 (Acc Crit) _____

D. 2-RLY-99-K624 (Acc Crit) _____

[63] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 (Acc Crit) _____

B. 2-RLY-99-K617 (Acc Crit) _____

C. 2-RLY-99-K623 (Acc Crit) _____

D. 2-RLY-99-K624 (Acc Crit) _____

[64] **PLACE** PS/514C, Hi Neg Rate Stm Press Lp1 Ch1 bistable, at 2-R-3, in NORMAL. _____

[65] **VERIFY** the following:

A. 2-XA-55-6B-120C, SG PRESS NEG TE STM LINE ISOL (<P11), is CLEAR. _____

B. ICS point P0473D (SL HI NEG RT PRESSURE CAUS SL ISOL) indicates, NOT TR. _____

[66] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[67] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-51:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

[68] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE.

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE.

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE.

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET.

[69] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[70] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[71] **PLACE** PS/515C, Hi Neg Rate Stm Press Lp1 Ch2 bistable, at 2-R-7, in TRIP. _____

[72] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[73] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[74] **PLACE** PS/516C, Hi Neg Rate Stm Press Lp1 Ch4 bistable, at 2-R-12, in NORMAL. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[75] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

[76] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[77] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[78] **PLACE** PS/514C, Hi Neg Rate Stm Press Lp1 Ch1 bistable, at 2-R-3, in TRIP. _____

[79] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[80] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 (Acc Crit) _____

B. 2-RLY-99-K617 (Acc Crit) _____

C. 2-RLY-99-K623 (Acc Crit) _____

D. 2-RLY-99-K624 (Acc Crit) _____

[81] **POSITION** the following bistables to NORMAL:

A. PS/514C, Hi Neg Rate Stm Press Lp1 Ch1, at 2-R-3. _____

B. PS/515C, Hi Neg Rate Stm Press Lp1 Ch2, at 2-R-7. _____

[82] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

[83] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[84] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

D. 2-RLY-99-K624 _____

[85] **POSITION** the following bistables to TRIP:

A. PS/524C, Hi Neg Rate Stm Press Lp2 Ch1, at 2-R-3. _____

B. PS/525C, Hi Neg Rate Stm Press Lp2 Ch2, at 2-R-8. _____

[86] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[87] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[88] **PLACE** PS/525C, Hi Neg Rate Stm Press Lp2 Ch2 bistable, at 2-R-8, in NORMAL. _____

[89] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, 145W SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[90] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[91] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[92] **PLACE** PS/526C, Hi Neg Rate Stm Press Lp2 Ch3 bistable, at 2-R-11, in TRIP. _____

[93] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[94] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

- [95] **PLACE** PS/524C, Hi Neg Rate Stm Press Lp2 Ch1 bistable, at 2-R-3, in NORMAL. _____
- [96] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:
- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
 - B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
 - C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
 - D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL to RESET. _____
- [97] **VERIFY** the following Slave Relays are RESET, at 2-R-48:
- A. 2-RLY-99-K616 _____
 - B. 2-RLY-99-K617 _____
 - C. 2-RLY-99-K623 _____
 - D. 2-RLY-99-K624 _____
- [98] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K616 _____
 - B. 2-RLY-99-K617 _____
 - C. 2-RLY-99-K623 _____
 - D. 2-RLY-99-K624 _____
- [99] **PLACE** PS/525C, Hi Neg Rate Stm Press Lp2 Ch2 bistable, at 2-R-8, in TRIP. _____
- [100] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.
- A. 2-RLY-99-K616 **(Acc Crit)** _____
 - B. 2-RLY-99-K617 **(Acc Crit)** _____
 - C. 2-RLY-99-K623 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

D. 2-RLY-99-K624 (Acc Crit) _____

[101] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 (Acc Crit) _____

B. 2-RLY-99-K617 (Acc Crit) _____

C. 2-RLY-99-K623 (Acc Crit) _____

D. 2-RLY-99-K624 (Acc Crit) _____

[102] **PLACE** the following bistables in NORMAL:

A. PS/525C, Hi Neg Rate Stm Press Lp2 Ch2, at 2-R-8. _____

B. PS/526C, Hi Neg Rate Stm Press Lp2 Ch3, at 2-R-11. _____

[103] **POSITION** the following handswitches, at 2-M-4 to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[104] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[105] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[106] **POSITION** the following bisables to TRIP:

- A. PS/534C, Hi Neg Rate Stm Press Lp3 Ch1, at 2-R-4. _____
- B. PS/536C, Hi Neg Rate Stm Press Lp3 Ch3, at 2-R-11. _____

[107] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[108] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[109] **PLACE** PS/534C, Hi Neg Rate Stm Press Lp3 Ch1 bistable, at 2-R-4, in NORMAL. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[110] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[111] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[112] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[113] **PLACE** PS/535C, Hi Neg Rate Stm Press Lp3 Ch2 bistable, at 2-R-7, in TRIP. _____

[114] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[115] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

A. 2-RLY-99-K616 (Acc Crit) _____

B. 2-RLY-99-K617 (Acc Crit) _____

C. 2-RLY-99-K623 (Acc Crit) _____

D. 2-RLY-99-K624 (Acc Crit) _____

[116] **PLACE** PS/536C, Hi Neg Rate Stm Press Lp3 Ch3 bistable, at 2-R-11, in NORMAL. _____

[117] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[118] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[119] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[120] **PLACE** PS/534C, Hi Neg Rate Stm Press Lp3 Ch 1 bistable, at 2-R-4, in TRIP. _____

[121] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48. _____

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[122] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51. _____

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[123] **PLACE** the following bistables in NORMAL: _____

A. PS/534C, Hi Neg Rate Stm Press Lp3 Ch1, at 2-R-4. _____

B. PS/535C, Hi Neg Rate Stm Press Lp3 Ch2, at 2-R-7. _____

[124] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation: _____

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[125] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[126] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[127] **PLACE** the following bistables in TRIP:

- A. PS/544C, Hi Neg Rate Stm Press Lp4 Ch1, at 2-R-4. _____
- B. PS/545C, Hi Neg Rate Stm Press Lp4 Ch2, at 2-R-8. _____

[128] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[129] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[130] **PLACE** PS/545C, Ni Neg Rate Stm Press Lp4 Ch2 bistable, at 2-R-8, in NORMAL. _____

[131] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[132] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[133] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[134] **PLACE** PS/546C Hi Neg Rate Stm Press Lp4 Ch4 bistable, at 2-R-12, in TRIP. _____

[135] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48. _____

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[136] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51. _____

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[137] **PLACE** PS/544C, Hi Neg Rate Stm Press Lp4 Ch1 bistable, at 2-R-4, in NORMAL. _____

[138] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation: _____

A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____

B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____

C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[139] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[140] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[141] **PLACE** PS/545C, Hi Neg Rate Stm Press Lp4 Ch2 bistable, at 2-R-8, in TRIP. _____

[142] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[143] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51.

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[144] **PLACE** the following bistables in NORMAL:

- A. PS/545C, Hi Neg Rate Stm Press Lp4 Ch2, at 2-R-8. _____
- B. PS/546C, Hi Neg Rate Stm Press Lp4 Ch4, at 2-R-12. _____

[145] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[146] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[147] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

[148] **VERIFY** the following:

- A. 2-XA-55-6B-120A, SG 1 PRESS NEG RATE is CLEAR. _____
- B. 2-XA-55-6B-121A, SG 2 PRESS NEG RATE is CLEAR. _____
- C. 2-XA-55-6B-122A, SG 3 PRESS NEG RATE is CLEAR. _____
- D. 2-XA-55-6B-123A, SG4 PRESS NEG RATE is CLEAR. _____
- E. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is in ALARM. _____
- F. 2-XA-55-6B-120C, SG PRESS NEG RATE STM LINE ISOL (P11), is CLEAR. _____
- G. Trip Status Light 5 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2D, is OFF. _____
- H. Trip Status Light 29 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-2E, is OFF. _____
- I. Trip Status Light 77 (2-XX-55-6B, 2-M-6), SG 1 PRESS-RATE PS-1-5B, is OFF. _____
- J. Trip Status Light 6 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9D, is OFF. _____
- K. Trip Status Light 30 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-9E, is OFF. _____
- L. Trip Status Light 54 (2-XX-55-6B, 2-M-6), SG 2 PRESS-RATE PS-1-12B, is OFF. _____
- M. Trip Status Light 7 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20D, is OFF. _____
- N. Trip Status Light 31 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-20E, is OFF. _____
- O. Trip Status Light 55 (2-XX-55-6B, 2-M-6), SG 3 PRESS-RATE PS-1-23B, is OFF. _____
- P. Trip Status Light 8 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27D, is OFF. _____

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6.6 High Steam Pressure Rate Steam Line Isolation (continued)

Q. Trip Status Light 32 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-27E, is OFF. _____

R. Trip Status Light 80 (2-XX-55-6B, 2-M-6), SG4 PRESS-RATE PS-1-30B, is OFF. _____

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6.7 Containment Hi Pressure Safety Injection

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.7 have been completed. _____
- [2] **ENSURE** the Switched Jumpers (P-4 Test Switch) are OPEN, to simulate Reactor NOT TRIPPED, in the following locations:
 - A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____
 - B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____
- [3] **ENSURE** the following bistables are in NORMAL:
 - A. PS/934B, Cntmt Hi Press Ch4, at 2-R-28. _____
 - B. PS/935B, Cntmt Hi Press Ch3, at 2-R-11. _____
 - C. PS/936B, Cntmt Hi Press Ch2, at 2-R-7. _____
 - D. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1, at 2-R-1. _____
 - E. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____
 - F. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____
- [4] **VERIFY** the following:
 - A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
 - B. 2-XA-55-4A-70B, at 2-XA-55-4A, AUTO SI BLOCKED is CLEAR. _____
 - C. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
 - D. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

- E. 2-XA-55-4D-78G, SI CNTMT PRESS HI,
is CLEAR _____
- F. 2-XA-55-4D-79G, SI STM PRESS LO,
is CLEAR. _____
- G. 2-XA-55-6C-125D, CNTMT HI PRESS SI,
is CLEAR. _____
- H. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS
RATE SLI-ACTIVE (P-11), is in ALARM. _____
- I. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED,
is CLEAR. _____
- J. Trip Status Light 40 (2-XX-55-6A, 2-M-6), CNTMT PRESS
HI PDS-30-44B, is OFF. _____
- K. Trip Status Light 60 (2-XX-55-6A, 2-M-6), CNTMT PRESS
HI PDS-30-43B, is OFF. _____
- L. Trip Status Light 80 (2-XX-55-5A, 2-M-6), CNTMT PRESS
HI PDS-30-42B, is OFF. _____
- M. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
is OFF. _____
- N. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- O. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M--6), MFW,
is OFF. _____
- P. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA,
is OFF. _____
- Q. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is OFF. _____
- R. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[5] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[6] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K620 _____

Q. 2-RLY-99-K621 _____

R. 2-RLY-99-K622 _____

S. 2-RLY-99-K630 _____

| | | |
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6.7 Containment Hi Pressure Safety Injection (continued)

T. 2-RLY-99-K647 _____

U. 2-RLY-99-K649 _____

[7] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K620 _____

Q. 2-RLY-99-K621 _____

R. 2-RLY-99-K622 _____

S. 2-RLY-99-K630 _____

T. 2-RLY-99-K647 _____

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6.7 Containment Hi Pressure Safety Injection (continued)

- U. 2-RLY-99-K649 _____
- [8] **PLACE** the following handswitches, at 2-M-4, to BLOCK:
 - A. 2-HS-63-135A, LO STEAM PRESS SI BLOCK. _____
 - B. 2-HS-63-135B, LO STEAM PRESS SI BLOCK. _____
- [9] **PLACE** the following handswitches, at 2-M-4, to BLOCK:
 - A. 2-HS-63-136A, P11 LO PZR PRESS SI BLOCK. _____
 - B. 2-HS-63-136B, P11 LO PRZ PRESS SI BLOCK. _____
- [10] **VERIFY** the following:
 - A. 2-XA-55-4A-68B,
LO STM PRESS SI-BLKD STM PRESS RATE SLI-
ACTIVE (P-11), is in ALARM. _____
 - B. 2-XA-55-4A-69B,
PZR PRESS SI BLOCKED, is in ALARM. _____
- [11] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH,
at 2-R-47, to A + B. _____
- [12] **PLACE** PS/935B, Cntmt Hi Press Ch3 bistable, at 2-R-11
in TRIP. _____
- [13] **VERIFY** the following:
 - A. 2-XA-55-6C-125D,
CNTMT HI PRESS SI, is in ALARM. _____
 - B. 2-XA-55-4D-78G,
SI CNTMT PRESS HI, remains CLEAR. _____
 - C. 2-XA-55-4A-70A,
SI ACTUATED, remains CLEAR. _____
 - D. ICS point P1001D (CNTMT HI PRESSURE 3 SI PARTIAL
RX TRIP) indicates, TRIP. _____
 - E. ICS point P1003D (CNTMT HI PRESSURE SI CAUSES
RX TRIP) indicates, NOT TR. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

- F. Trip Status Light 60 (2-XX-55-6A, 2-M-6),
CNTMT PRESS HI PDS-30-43B, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
remains OFF. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
remains OFF. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
remains OFF. _____
- J. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA,
remains OFF. _____
- K. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
remains OFF. _____
- L. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
remains OFF. _____

[14] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[15] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____

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6.7 Containment Hi Pressure Safety Injection (continued)

- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

[16] **VERIFY** the following Slave Relays remain RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____

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6.7 Containment Hi Pressure Safety Injection (continued)

- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

[17] **PLACE** PS/935B, Cntmt Hi Press Ch3 bistable, at 2-R-11, in NORMAL. _____

[18] **VERIFY** the following:

- A. 2-XA-55-6C-125D, CNTMT HI PRESS SI, is CLEAR. _____
- B. ICS point P1001D (CNTMT HI PRESSURE 3 SI PARTIAL RX TRIP) indicates, NOT TR. _____
- C. Trip Status Light 60 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI PDS-30-43B, is OFF. _____

[19] **PLACE** PS/934B, Cntmt Hi Press Ch4 bistable, at 2-R-28, in TRIP. _____

[20] **VERIFY** the following:

- A. 2-XA-55-6C-125D, CNTMT HI PRESS SI, is in ALARM. _____
- B. 2-XA-55-4D-78G, SI CNTMT PRESS HI, remains CLEAR. _____

| | | |
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6.7 Containment Hi Pressure Safety Injection (continued)

C. 2-XA-55-4A-70A,
SI ACTUATED, remains CLEAR. _____

D. ICS point P1002D (CNTMT HI PRESSURE 4 SI PARTIAL
RX TRIP), indicates, TRIP. _____

E. ICS point P1003D (CNTMT HI PRESSURE SI CAUSES
RX TRIP), remains NOT TR. _____

F. Trip Status Light 80 (2-XX-55-6A, 2-M-6),
CNTMT PRESS HI PDS-30-42B, is ON. _____

[21] **VERIFY** 42VDC (\geq 35VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[22] **PLACE** PS/934B, Cntmt Hi Press Ch4 bistable, at 2-R-28,
in NORMAL. _____

[23] **VERIFY** the following:

A. 2-XA-55-4D-125D,
CNTMT HI PRESS SI, is CLEAR. _____

B. ICS point P1002D (CNTMT HI PRESSURE 4 SI PARTIAL
RX TRIP) indicates, NOT TR. _____

C. Trip Status Light 80 (2-XX-55-6A, 2-M-6),
CNTMT PRESS HI PDS-30-42B, is OFF. _____

[24] **PLACE** PS/936B, Cntmt Hi Press Ch2 bistable, at 2-R-7, in
TRIP. _____

| | | |
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6.7 Containment Hi Pressure Safety Injection (continued)

[25] **VERIFY** the following

A. 2-XA-55-4D-125D,
CNTMT HI PRESS SI, is in ALARM. _____

B. 2-XA-55-4D-78G,
SI CNTMT PRESS HI, remains CLEAR. _____

C. 2-XA-55-4A-70A,
SI ACTUATED, remains CLEAR. _____

D. ICS point P1000D (CNTMT HI PRESSURE 2 SI PARTIAL
RX TRIP) indicates, TRIP. _____

E. ICS point P1003D (CNTMT HI PRESSURE SI CAUSES
RX TRIP) remains NOT TR. _____

F. Trip Status Light 40 (2-XX-55-6A, 2-M-6),
CNTMT PRESS HI PDS-30-44B, is ON. _____

[26] **VERIFY** 42VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[27] **PLACE** PS/936B, Cntmt Hi Press Ch2 bistable, at 2-R-7,
in NORMAL. _____

[28] **VERIFY** the following:

A. 2-XA-55-4D-125D,
CNTMT HI PRESS SI, is CLEAR. _____

B. ICS point P1000D (CNTMT HI PRESSURE 2 SI PARTIAL
RX TRIP) indicates, NOT TR. _____

C. Trip Status Light 40 (2-XX-55-6A, 2-M-6),
CNTMT PRESS HI PDS-30-44B, is OFF. _____

[29] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH
in NORMAL. _____

| | | |
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6.7 Containment Hi Pressure Safety Injection (continued)

[30] **POSITION** the following bistables to TRIP:

A. PS/936B, Cntmt Hi Press Ch2, at 2-R-7. _____

B. PS/935B, Cntmt Hi Press Ch3, at 2-R-11. _____

[31] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-4D-78G,
SI CNTMT PRESS HI, is in ALARM. _____

B. 2-XA-55-4A-70A,
SI ACTUATED, is in ALARM. _____

C. ICS point P1003D (CNTMT HI PRESSURE SI CAUSES
RX TRIP) indicates, TRIP. _____

D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A,
is ON. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is ON. _____

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A,
is ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[32] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. **(Acc Crit)** _____

B. M501 at 2-R-50. **(Acc Crit)** _____

| | | |
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6.7 Containment Hi Pressure Safety Injection (continued)

[33] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48:

- | | | | |
|----|---------------|------------|-------|
| A. | 2-RLY-99-K601 | (Acc Crit) | _____ |
| B. | 2-RLY-99-K602 | (Acc Crit) | _____ |
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K620 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| T. | 2-RLY-99-K647 | (Acc Crit) | _____ |
| U. | 2-RLY-99-K649 | (Acc Crit) | _____ |

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6.7 Containment Hi Pressure Safety Injection (continued)

[34] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

- | | | | |
|----|---------------|------------|-------|
| A. | 2-RLY-99-K601 | (Acc Crit) | _____ |
| B. | 2-RLY-99-K602 | (Acc Crit) | _____ |
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K620 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| T. | 2-RLY-99-K647 | (Acc Crit) | _____ |
| U. | 2-RLY-99-K649 | (Acc Crit) | _____ |

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6.7 Containment Hi Pressure Safety Injection (continued)

- [35] **CLOSE** the Switched Jumper (P-4 Test Switch) TB506, across Terminal Points 4 and 5, at 2-R-47, to simulate Reactor TRIPPED. _____

NOTE

Step 6.7[30] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

- [36] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

- [37] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

- [38] **VERIFY** the following:

- A. 2-XA-55-4A-70B, AUTO SI BLOCKED, is in ALARM. _____
- B. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[39] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 (Acc Crit) _____
- B. 2-RLY-99-K602 (Acc Crit) _____
- C. 2-RLY-99-K603 (Acc Crit) _____
- D. 2-RLY-99-K604 (Acc Crit) _____
- E. 2-RLY-99-K605 (Acc Crit) _____
- F. 2-RLY-99-K606 (Acc Crit) _____
- G. 2-RLY-99-K607 (Acc Crit) _____
- H. 2-RLY-99-K608 (Acc Crit) _____
- I. 2-RLY-99-K609 (Acc Crit) _____
- J. 2-RLY-99-K610 (Acc Crit) _____
- K. 2-RLY-99-K611 (Acc Crit) _____
- L. 2-RLY-99-K612 (Acc Crit) _____
- M. 2-RLY-99-K613 (Acc Crit) _____
- N. 2-RLY-99-K614 (Acc Crit) _____
- O. 2-RLY-99-K615 (Acc Crit) _____
- P. 2-RLY-99-K622 (Acc Crit) _____
- Q. 2-RLY-99-K630 (Acc Crit) _____
- R. 2-RLY-99-K647 (Acc Crit) _____

[40] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

- A. 2-RLY-99-K620 (Acc Crit) _____
- B. 2-RLY-99-K621 (Acc Crit) _____
- C. 2-RLY-99-K649 (Acc Crit) _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[41] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K608 _____
- F. 2-RLY-99-K609 _____
- G. 2-RLY-99-K610 _____
- H. 2-RLY-99-K611 _____
- I. 2-RLY-99-K620 _____
- J. 2-RLY-99-K621 _____
- K. 2-RLY-99-K647 _____
- L. 2-RLY-99-K649 _____

[42] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K605 **(Acc Crit)** _____
- B. 2-RLY-99-K606 **(Acc Crit)** _____
- C. 2-RLY-99-K607 **(Acc Crit)** _____
- D. 2-RLY-99-K612 **(Acc Crit)** _____
- E. 2-RLY-99-K613 **(Acc Crit)** _____
- F. 2-RLY-99-K614 **(Acc Crit)** _____
- G. 2-RLY-99-K615 **(Acc Crit)** _____
- H. 2-RLY-99-K622 **(Acc Crit)** _____
- I. 2-RLY-99-K630 **(Acc Crit)** _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[43] **OPEN** the Switched Jumper (P-4 Test Switch) TB506 across Terminal Points 4 and 5, at 2-R-47, to simulate Reactor NOT TRIPPED.

[44] **VERIFY** the following:

A. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR.

B. 2-XA-55-4A-70A, SI ACTUATED, remains in ALARM.

[45] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48:

A. 2-RLY-99-K601 (Acc Crit)

B. 2-RLY-99-K602 (Acc Crit)

C. 2-RLY-99-K603 (Acc Crit)

D. 2-RLY-99-K604 (Acc Crit)

E. 2-RLY-99-K605 (Acc Crit)

F. 2-RLY-99-K606 (Acc Crit)

G. 2-RLY-99-K607 (Acc Crit)

H. 2-RLY-99-K608 (Acc Crit)

I. 2-RLY-99-K609 (Acc Crit)

J. 2-RLY-99-K610 (Acc Crit)

K. 2-RLY-99-K611 (Acc Crit)

L. 2-RLY-99-K612 (Acc Crit)

M. 2-RLY-99-K613 (Acc Crit)

N. 2-RLY-99-K614 (Acc Crit)

O. 2-RLY-99-K615 (Acc Crit)

P. 2-RLY-99-K620 (Acc Crit)

Q. 2-RLY-99-K621 (Acc Crit)

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6.7 Containment Hi Pressure Safety Injection (continued)

- R. 2-RLY-99-K622 (Acc Crit) _____
- S. 2-RLY-99-K630 (Acc Crit) _____
- T. 2-RLY-99-K647 (Acc Crit) _____
- U. 2-RLY-99-K649 (Acc Crit) _____

[46] **CLOSE** the Switched Jumper (P-4 Test Switch) TB506, across Terminal Points 4 and 5, at 2-R-50, to simulate Reactor TRIPPED. _____

NOTE

Step 6.7[30] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[47] **PRESS** the following Pushbuttons, at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[48] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV- 63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[49] **VERIFY** the following:

A. 2-XA-55-4A-70A,
SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4A-70B,
AUTO SI BLOCKED, is in ALARM. _____

[50] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K601 (Acc Crit) _____

B. 2-RLY-99-K602 (Acc Crit) _____

C. 2-RLY-99-K603 (Acc Crit) _____

D. 2-RLY-99-K604 (Acc Crit) _____

E. 2-RLY-99-K605 (Acc Crit) _____

F. 2-RLY-99-K606 (Acc Crit) _____

G. 2-RLY-99-K607 (Acc Crit) _____

H. 2-RLY-99-K608 (Acc Crit) _____

I. 2-RLY-99-K609 (Acc Crit) _____

J. 2-RLY-99-K610 (Acc Crit) _____

K. 2-RLY-99-K611 (Acc Crit) _____

L. 2-RLY-99-K612 (Acc Crit) _____

M. 2-RLY-99-K613 (Acc Crit) _____

N. 2-RLY-99-K614 (Acc Crit) _____

O. 2-RLY-99-K615 (Acc Crit) _____

P. 2-RLY-99-K622 (Acc Crit) _____

Q. 2-RLY-99-K630 (Acc Crit) _____

R. 2-RLY-99-K647 (Acc Crit) _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[51] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-51:

- A. 2-RLY-99-K620 (Acc Crit) _____
- B. 2-RLY-99-K621 (Acc Crit) _____
- C. 2-RLY-99-K649 (Acc Crit) _____

[52] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K608 _____
- F. 2-RLY-99-K609 _____
- G. 2-RLY-99-K610 _____
- H. 2-RLY-99-K611 _____
- I. 2-RLY-99-K620 _____
- J. 2-RLY-99-K621 _____
- K. 2-RLY-99-K647 _____
- L. 2-RLY-99-K649 _____

[53] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K605 (Acc Crit) _____
- B. 2-RLY-99-K606 (Acc Crit) _____
- C. 2-RLY-99-K607 (Acc Crit) _____
- D. 2-RLY-99-K612 (Acc Crit) _____

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- E. 2-RLY-99-K613 (Acc Crit) _____
- F. 2-RLY-99-K614 (Acc Crit) _____
- G. 2-RLY-99-K615 (Acc Crit) _____
- H. 2-RLY-99-K622 (Acc Crit) _____
- I. 2-RLY-99-K630 (Acc Crit) _____
- [54] **OPEN** the Switched Jumper (P-4 Test Switch) TB506, across Terminal Points 4 and 5, at 2-R-50, to simulate Reactor NOT TRIPPED. _____
- [55] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:
 - A. 2-RLY-99-K601 (Acc Crit) _____
 - B. 2-RLY-99-K602 (Acc Crit) _____
 - C. 2-RLY-99-K603 (Acc Crit) _____
 - D. 2-RLY-99-K604 (Acc Crit) _____
 - E. 2-RLY-99-K605 (Acc Crit) _____
 - F. 2-RLY-99-K606 (Acc Crit) _____
 - G. 2-RLY-99-K607 (Acc Crit) _____
 - H. 2-RLY-99-K608 (Acc Crit) _____
 - I. 2-RLY-99-K609 (Acc Crit) _____
 - J. 2-RLY-99-K610 (Acc Crit) _____
 - K. 2-RLY-99-K611 (Acc Crit) _____
 - L. 2-RLY-99-K612 (Acc Crit) _____
 - M. 2-RLY-99-K613 (Acc Crit) _____
 - N. 2-RLY-99-K614 (Acc Crit) _____
 - O. 2-RLY-99-K615 (Acc Crit) _____

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6.7 Containment Hi Pressure Safety Injection (continued)

P. 2-RLY-99-K620 (Acc Crit) _____

Q. 2-RLY-99-K621 (Acc Crit) _____

R. 2-RLY-99-K622 (Acc Crit) _____

S. 2-RLY-99-K630 (Acc Crit) _____

T. 2-RLY-99-K647 (Acc Crit) _____

U. 2-RLY-99-K649 (Acc Crit) _____

[56] **PLACE** PS/935B, CNTMT HI PRESS CH3 BISTABLE, at
2-R-11, in NORMAL. _____

[57] **VERIFY** the following:

A. 2-XA-55-4A-70A,
SI ACTUATED, is in ALARM. _____

B. 2-XA-55-4D-78G,
SI CNTMT PRESS HI, is CLEAR. _____

NOTE

Step 6.7[54] starts a time sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[58] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____

D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____

F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[59] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG FCV- 63-72. _____

[60] **VERIFY** 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[61] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[62] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K620 _____
- Q. 2-RLY-99-K621 _____
- R. 2-RLY-99-K622 _____
- S. 2-RLY-99-K630 _____
- T. 2-RLY-99-K647 _____
- U. 2-RLY-99-K649 _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[63] **VERIFY** the following:

- A. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- C. MISSP. Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF _____
- D. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[64] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[65] **PLACE** PS/934B, Cntmt Hi Press Ch4, at 2-R-28, in TRIP. _____

[66] **VERIFY** the following (**Acc-Crit**):

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is ON. _____

G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[67] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. **(Acc Crit)** _____

B. M501 at 2-R-50. **(Acc Crit)** _____

[68] **PLACE** P5/936B, Cntmt Hi Press Ch2 bistable, at 2-R-7,
in NORMAL. _____

NOTE

Step 6.7[65] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[69] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____

D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____

F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[70] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[71] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[72] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[73] **PLACE** PS/935B, Cntmt Hi Press Ch3 bistable, at 2-R-11, in TRIP. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

[74] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[75] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[76] **POSITION** the following bistables to NORMAL:

- A. PS/934B, Cntmt Hi Press Ch4, at 2-R-28. _____
- B. PS/935B, Cntmt Hi Press Ch3, at 2-R-11. _____

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6.7 Containment Hi Pressure Safety Injection (continued)

NOTE

Step 6.7[73] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[77] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[78] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

[79] **VERIFY** the following:

- A. 2-XA-55-6C-125D, CNTMT HI PRESS SI, is CLEAR. _____
- B. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- C. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA,
is OFF. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

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G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF _____

[80] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[81] **VERIFY** the following:

A. Trip Status Light 40 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI PDS-30-44B, is OFF. _____

B. Trip Status Light 60 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI PDS-30-43B, is OFF. _____

C. Trip Status Light 80 (2-XX-55-6A, 2-M-6), CNTMT PRESS HI PDS-30-42B, is OFF. _____

[82] **ENSURE** the following bistables are in TRIP:

A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1, at 2-R-1. _____

B. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2, at 2-R-5. _____

C. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3, at 2-R-9. _____

[83] **VERIFY** the following:

A. 2-XA-55-4A-68B, LO STM PRESS SI BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____

B. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____

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6.8 Low Steamline Pressure Safety Injection

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.8 have been completed. _____

- [2] **ENSURE** the Switched Jumpers (P-4 Test Switch) are OPEN to simulate Reactor NOT TRIPPED, in the following locations:
 - A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____
 - B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____

- [3] **Ensure** the following bistables in NORMAL:
 - A. PS/514A, Lo Stm Press Lp1 Ch1, at 2-R-3. _____
 - B. PS/524A, Lo Stm Press Lp2 Ch1, at 2-R-3. _____
 - C. PS/534A, Lo Stm Press Lp3 Ch1, at 2-R-4. _____
 - D. PS/544A, Lo Stm Press Lp4 Ch1, at 2-R-4. _____
 - E. PS/515A, Lo Stm Press Lp1 Ch2, at 2-R-7. _____
 - F. PS/535A, Lo Stm Press Lp3 Ch2, at 2-R-7. _____
 - G. PS/525A, Lo Stm Press Lp2 Ch2, at 2-R-8. _____
 - H. PS/545A, Lo Stm Press Lp4 Ch2, at 2-R-8. _____
 - I. PS/526A, Lo Stm Press Lp2 Ch3, at 2-R-11. _____
 - J. PS/536A, Lo Stm Press Lp3 Ch3, at 2-R-11. _____
 - K. PS/516A, Lo Stm Press Lp1 Ch4, at 2-R-12. _____
 - L. PS/546A, Lo Stm Press Lp4 Ch4, at 2-R-12. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[4] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- D. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- E. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- F. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- G. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- H. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- I. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- J. 2-XA-55-6B-116A, SG 1 PRESS LO, is CLEAR. _____
- K. 2-XA-55-6B-117A, SG 2 PRESS LO, is CLEAR. _____
- L. 2-XA-55-6B-118A, SG 3 PRESS LO, is CLEAR. _____
- M. 2-XA-55-6B-119A, SG4 PRESS LO, is CLEAR. _____
- N. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- O. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- P. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- Q. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- R. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- S. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[5] **VERIFY** the following:

- A. Trip Status Light 1 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-2A, is OFF. _____
- B. Trip Status Light 2 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-9A, is OFF. _____
- C. Trip Status Light 3 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20A, is OFF. _____
- D. Trip Status Light 4 (2-XX-55-6B, 2-M-6, SG4 PRESS LO PS-1-27A, is OFF. _____
- E. Trip Status Light 25 (2-XX-55-6B, 2-M-6) SG1 PRESS LO PS-1-2B, is OFF. _____
- F. Trip Status Light 26 (2-XX-55-6B, 2-M-6) SG2 PRESS LO PS-1-9B, is OFF. _____
- G. Trip Status Light 27 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20B, is OFF. _____
- H. Trip Status Light 28 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-27B, is OFF. _____
- I. Trip Status Light 73 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-5A, is OFF. _____
- J. Trip Status Light 50 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-12A, is OFF. _____
- K. Trip Status Light 51 (2-XX-S5-6B, 2-M-6), SG3 PRESS LO PS-1-23A, is OFF. _____
- L. Trip Status Light 76 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-30A, is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[6] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[7] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K616 _____

Q. 2-RLY-99-K617 _____

R. 2-RLY-99-K620 _____

S. 2-RLY-99-K621 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[8] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K621 _____
- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____
- [9] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH,
at 2-R-47, in A + B. _____
- [10] **PLACE** PS/514A, Lo Stm Press LP1 Ch1 bistable, at 2-R-3,
in TRIP. _____
- [11] **VERIFY** the following:
 - A. 2-XA-55-6B-116A, SG 1 PRESS LO, is in ALARM. _____
 - B. 2-XA-55-4A-70A, SI ACTUATED, remains CLEAR. _____
 - C. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
 - D. ICS point P0404D (SL1 LO PRESSURE P1 SI PARTIAL
RX TRIP) indicates, TRIP. _____
 - E. ICS point P0407D (SL1 LO PRESSURE SI CAUSES RX
TRIP) indicates, NOT TR. _____
 - F. Trip Status Light 1 (2-XX-55-6B, 2-M-6),
SG1 PRESS PS-1-2A, is ON. _____
 - G. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A,
remains OFF. _____
 - H. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
remains OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- I. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, remains OFF. _____
- J. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, remains OFF. _____
- K. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, remains OFF. _____
- L. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, remains OFF. _____

[12] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[13] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K623 _____
- T. 2-RLY-99-K624 _____
- U. 2-RLY-99-K621 _____
- V. 2-RLY-99-K622 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[14] **VERIFY** the following Slave Relays remain RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K623 _____
- T. 2-RLY-99-K624 _____
- U. 2-RLY-99-K621 _____
- V. 2-RLY-99-K622 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[15] **PLACE** PS/514A, Lo Stm Press Lp1 Ch1 bistable, at 2-R-3, in NORMAL. _____

[16] **VERIFY** the following:

- A. 2-XA-55-6B-116A, SG 1 PRESS LO, is CLEAR. _____
- B. ICS point P0404D (SL1 LO PRESSURE P1 SI PARTIAL RX TRIP), indicates, NOT TR. _____
- C. Trip Status Light 1 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-2A, is OFF. _____

[17] **PLACE** PS/515A, Lo Stm Press Lp1 Ch2 bistable, at 2-R-7, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[18] **VERIFY** the following:

- A. 2-XA-55-6B-116A, SG 1 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0405D (SL1 LO PRESSURE P2 SI PARTIAL RX TRIP), indicates, TRIP. _____
- D. ICS point P0407D (SL1 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 25 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-2B, is ON. _____

[19] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[20] **PLACE** PS/515A, Lo Stm Press Lp1 Ch2 bistable, at 2-R-7, in NORMAL. _____

[21] **VERIFY** the following:

- A. 2-XA-55-6B-116A, SG 1 PRESS LO, is CLEAR. _____
- B. ICS point P0405D (SL1 LO PRESSURE P2 SI PARTIAL RX TRIP) indicates, NOT TR. _____
- C. Trip Status Light 25 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-2B, is OFF. _____

[22] **PLACE** PS/516A, Lo Stm Press Lp1 Ch4 bistable, at 2-R-12, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[23] **VERIFY** the following:

- A. 2-XA-55-6B-116A, SG 1 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0406D (SL1 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0407D (SL1 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 73 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-5A, is ON. _____

[24] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[25] **PLACE** PS/516A, Lo Stm Press Lp1 Ch4 bistable, at 2-R-12, in NORMAL. _____

[26] **VERIFY** the following:

- A. 2-XA-55-6B-116A, SG 1 PRESS LO, is CLEAR. _____
- B. ICS point P0406D (SL1 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, NOT TR. _____
- C. Trip Status Light 73 (2-XX-55-6B, 2-M-6), SG1 PRESS LO PS-1-5A, is OFF. _____

[27] **PLACE** PS/524A, Lo Stm Press Lp2 Ch1 bistable, at 2-R-3, in TRIP. _____

[28] **VERIFY** the following:

- A. 2-XA-55-6B-117A, SG 2 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0424D (SL2 LO PRESSURE P1 SI PARTIAL RX TRIP) indicates, TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- D. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____
- E. Trip Status Light 2 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-9A, is ON. _____
- [29] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:
 - A. M501 at 2-R-47. _____
 - B. M501 at 2-R-50. _____
- [30] **PLACE** PS/524A, Lo Stm Press Lp2 Ch1 bistable, at 2-R-3, in NORMAL. _____
- [31] **VERIFY** the following:
 - A. 2-XA-55-6B-117A, SG 2 PRESS LO, is CLEAR. _____
 - B. ICS point P0424D (SL2 LO PRESSURE P1 SI PARTIAL RX TRIP), indicates, NOT TR. _____
 - C. Trip Status Light 2 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-9A, is OFF. _____
- [32] **PLACE** PS/525A, Lo Stm Press Lp2 Ch2 bistable, at 2-R-8, in TRIP. _____
- [33] **VERIFY** the following:
 - A. 2-XA-55-6B-117A, SG 2 PRESS LO, is in ALARM. _____
 - B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
 - C. ICS point P0425D (SL2 LO PRESSURE P2 SI PARTIAL RX TRIP) indicates, TRIP. _____
 - D. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
 - E. Trip Status Light 26 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-9B, is ON. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[34] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[35] **PLACE** PS/525A, Lo Stm Press Lp2 Ch2 bistable, at 2-R-8, in NORMAL. _____

[36] **VERIFY** the following:

A. 2-XA-55-6B-117A, SG 2 PRESS LO, is CLEAR. _____

B. ICS point P0425D (SL2 LO PRESSURE P2 SI PARTIAL RX TRIP), indicates, NOT TR. _____

C. Trip Status Light 26 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-9B, is OFF. _____

[37] **PLACE** PS/526A, Lo Stm Press Lp2 Ch3 bistable, at 2-R-11, in TRIP. _____

[38] **VERIFY** the following:

A. 2-XA-55-6B-117A, SG 2 PRESS LO, is in ALARM. _____

B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____

C. ICS point P0426D (SL2 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, TRIP. _____

D. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____

E. Trip Status Light 50 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-12A, is ON. _____

[39] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[40] **PLACE** PS/526A, Lo Stm Press Lp2 Ch3 bistable, at 2-R-11, in NORMAL. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[41] **VERIFY** the following:

- A. 2-XA-55-6B-117A, SG 2 PRESS LO, is in CLEAR. _____
- B. ICS point P0426D (SL2 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, NOT TR. _____
- C. Trip Status Light 50 (2-XX-55-6B, 2-M-6), SG2 PRESS LO PS-1-12A, is OFF. _____

[42] **PLACE** PS/534A, Lo Stm Press Lp3 Ch1 bistable, at 2-R-4, in TRIP. _____

[43] **VERIFY** the following:

- A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0446D (SL3 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0447D (SL3 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 3 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20A, is ON. _____

[44] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[45] **PLACE** PS/534A, Lo Stm Press Lp3 Ch1 bistable, at 2-R-4, in NORMAL. _____

[46] **VERIFY** the following:

- A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in CLEAR. _____
- B. ICS point P0446D (SL3 LO PRESSURE P3 SI PARTIAL RX TRIP) remains NOT TR. _____
- C. Trip Status Light 3 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20A, is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[47] **PLACE** PS/535A, Lo Stm Press Lp3 Ch2 bistable, at 2-R-7, in TRIP. _____

[48] **VERIFY** the following:

A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in ALARM. _____

B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____

C. ICS point P0444D (SL3 LO PRESSURE P1 SI PARTIAL RX TRIP) indicates, TRIP. _____

D. ICS point P0447D (SL3 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____

E. Trip Status Light 27 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20B, is ON. _____

[49] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[50] **PLACE** PS/535A, Lo Stm Press Lp3 Ch2 bistable, at 2-R-7, in NORMAL. _____

[51] **VERIFY** the following:

A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in CLEAR. _____

B. ICS point P0444D (SL3 LO PRESSURE P1 SI PARTIAL RX TRIP) remains NOT TR. _____

C. Trip Status Light 27 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-20B, is OFF. _____

[52] **PLACE** PS/536A, Lo Stm Press Lp3 Ch3 bistable, at 2-R-11, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[53] **VERIFY** the following:

- A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0445D (SL3 LO PRESSURE P2 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0447D (SL3 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 51 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-23A, is ON. _____

[54] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[55] **PLACE** PS/536A, Lo Stm Press Lp3 Ch3 bistable, at 2-R-11, in NORMAL. _____

[56] **VERIFY** the following:

- A. 2-XA-55-6B-118A, SG 3 PRESS LO, is in CLEAR. _____
- B. ICS point P0445D (SL3 LO PRESSURE P2 SI PARTIAL RX TRIP) remains NOT TR. _____
- C. Trip Status Light 51 (2-XX-55-6B, 2-M-6), SG3 PRESS LO PS-1-23A, is OFF. _____

[57] **PLACE** PS/544A, Lo Stm Press Lp4 Ch1 bistable, at 2-R-4, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[58] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0466D (SL4 LO PRESSURE P3 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0467D (SL4 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 4 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-27A, is ON. _____

[59] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[60] **PLACE** PS/544A, Lo Stm Press Lp4 Ch1 bistable, at 2-R-4, in NORMAL. _____

[61] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in CLEAR. _____
- B. ICS point P0466D (SL4 LO PRESSURE P3 SI PARTIAL RX TRIP) remains NOT TR. _____
- C. Trip Status Light 4 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-27A, is OFF. _____

[62] **PLACE** PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[63] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0465D (SL4 LO PRESSURE P2 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0467D (SL4 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 28 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-27B, is ON. _____

[64] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[65] **PLACE** PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8, in NORMAL. _____

[66] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in CLEAR. _____
- B. ICS point P0465D (SL4 LO PRESSURE P2 SI PARTIAL RX TRIP) remains NOT TR. _____
- C. Trip Status Light 28 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-27B, is OFF. _____

[67] **PLACE** PS/546A, Lo Stm Press Lp4 Ch4 bistable, at 2-R-12, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[68] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, remains CLEAR. _____
- C. ICS point P0464D (SL4 LO PRESSURE P1 SI PARTIAL RX TRIP) indicates, TRIP. _____
- D. ICS point P0467D (SL4 LO PRESSURE SI CAUSES RX TRIP) remains NOT TR. _____
- E. Trip Status Light 76 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-30A, is ON. _____

[69] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[70] **PLACE** PS/546A, Lo Stm Press Lp4 Ch4 bistable, at 2-R-12, in NORMAL. _____

[71] **VERIFY** the following:

- A. 2-XA-55-6B-119A, SG4 PRESS LO, is in CLEAR. _____
- B. ICS point P0464D (SL4 LO PRESSURE P1 SI PARTIAL RX TRIP) remains NOT TR. _____
- C. Trip Status Light 76 (2-XX-55-6B, 2-M-6), SG4 PRESS LO PS-1-30A, is OFF. _____

[72] **PLACE** the TRAIN A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in NORMAL. _____

[73] **POSITION** the following bistables to TRIP:

- A. PS/514A, Lo Stm Press Lp1 Ch1, at 2-R-3. _____
- B. PS/515A, Lo Stm Press Lp1 Ch2, at 2-R-7. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[74] **VERIFY** the following (Acc-Crit):

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. ICS point P0407D (SL1 LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[75] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. (Acc Crit) _____
- B. M501 at 2-R-50. (Acc Crit) _____

[76] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48:

- A. 2-RLY-99-K601 (Acc Crit) _____
- B. 2-RLY-99-K602 (Acc Crit) _____
- C. 2-RLY-99-K603 (Acc Crit) _____
- D. 2-RLY-99-K604 (Acc Crit) _____
- E. 2-RLY-99-K605 (Acc Crit) _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- F. 2-RLY-99-K606 (Acc Crit) _____
- G. 2-RLY-99-K607 (Acc Crit) _____
- H. 2-RLY-99-K608 (Acc Crit) _____
- I. 2-RLY-99-K609 (Acc Crit) _____
- J. 2-RLY-99-K610 (Acc Crit) _____
- K. 2-RLY-99-K611 (Acc Crit) _____
- L. 2-RLY-99-K612 (Acc Crit) _____
- M. 2-RLY-99-K613 (Acc Crit) _____
- N. 2-RLY-99-K614 (Acc Crit) _____
- O. 2-RLY-99-K615 (Acc Crit) _____
- P. 2-RLY-99-K616 (Acc Crit) _____
- Q. 2-RLY-99-K617 (Acc Crit) _____
- R. 2-RLY-99-K620 (Acc Crit) _____
- S. 2-RLY-99-K621 (Acc Crit) _____
- T. 2-RLY-99-K622 (Acc Crit) _____
- U. 2-RLY-99-K623 (Acc Crit) _____
- V. 2-RLY-99-K624 (Acc Crit) _____
- W. 2-RLY-99-K630 (Acc Crit) _____
- X. 2-RLY-99-K647 (Acc Crit) _____
- Y. 2-RLY-99-K649 (Acc Crit) _____

[77] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

- A. 2-RLY-99-K601 (Acc Crit) _____
- B. 2-RLY-99-K602 (Acc Crit) _____

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6.8 Low Steamline Pressure Safety Injection (continued)

| | | | |
|----|---------------|------------|-------|
| C. | 2-RLY-99-K603 | (Acc Crit) | _____ |
| D. | 2-RLY-99-K604 | (Acc Crit) | _____ |
| E. | 2-RLY-99-K605 | (Acc Crit) | _____ |
| F. | 2-RLY-99-K606 | (Acc Crit) | _____ |
| G. | 2-RLY-99-K607 | (Acc Crit) | _____ |
| H. | 2-RLY-99-K608 | (Acc Crit) | _____ |
| I. | 2-RLY-99-K609 | (Acc Crit) | _____ |
| J. | 2-RLY-99-K610 | (Acc Crit) | _____ |
| K. | 2-RLY-99-K611 | (Acc Crit) | _____ |
| L. | 2-RLY-99-K612 | (Acc Crit) | _____ |
| M. | 2-RLY-99-K613 | (Acc Crit) | _____ |
| N. | 2-RLY-99-K614 | (Acc Crit) | _____ |
| O. | 2-RLY-99-K615 | (Acc Crit) | _____ |
| P. | 2-RLY-99-K616 | (Acc Crit) | _____ |
| Q. | 2-RLY-99-K617 | (Acc Crit) | _____ |
| R. | 2-RLY-99-K620 | (Acc Crit) | _____ |
| S. | 2-RLY-99-K621 | (Acc Crit) | _____ |
| T. | 2-RLY-99-K622 | (Acc Crit) | _____ |
| U. | 2-RLY-99-K623 | (Acc Crit) | _____ |
| V. | 2-RLY-99-K624 | (Acc Crit) | _____ |
| W. | 2-RLY-99-K630 | (Acc Crit) | _____ |
| X. | 2-RLY-99-K647 | (Acc Crit) | _____ |
| Y. | 2-RLY-99-K649 | (Acc Crit) | _____ |

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6.8 Low Steamline Pressure Safety Injection (continued)

[78] **PLACE** PS/515A, Lo Stm Press Lp1 Ch2 bistable, at 2-R-7, in NORMAL. _____

[79] **VERIFY** the following:

A. 2-XA-55-4A-70A, SI ACTUATED, remains in ALARM. _____

B. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____

C. ICS point P0407D (SL1 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____

D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, remains ON. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, remains ON. _____

F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, remains ON. _____

G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6) ØA, remains ON. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, remains ON. _____

I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, remains ON. _____

[80] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[81] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K621 _____
- S. 2-RLY-99-K622 _____
- T. 2-RLY-99-K623 _____
- U. 2-RLY-99-K624 _____
- V. 2-RLY-99-K630 _____
- W. 2-RLY-99-K647 _____

[82] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

- A. 2-RLY-99-K620 _____
- B. 2-RLY-99-K649 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[83] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K621 _____
- S. 2-RLY-99-K622 _____
- T. 2-RLY-99-K623 _____
- U. 2-RLY-99-K624 _____
- V. 2-RLY-99-K630 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

W. 2-RLY-99-K647 _____

[84] **VERIFY** the following Slave Relays remain RESET, at 2-R-51:

A. 2-RLY-99-K620 _____

B. 2-RLY-99-K649 _____

NOTE

Step 6.8[78] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[85] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____

D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____

F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[86] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI
SIG TO FCV-63-72. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[87] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SC 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[88] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[89] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K621 _____
- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

W. 2-RLY-99-K630 _____

X. 2-RLY-99-K647 _____

Y. 2-RLY-99-K649 _____

[90] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K616 _____

Q. 2-RLY-99-K617 _____

R. 2-RLY-99-K620 _____

S. 2-RLY-99-K621 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[91] **PLACE** PS/516A, Lo Stm Press Lp1 Ch4 bistable, at 2-R-12, in TRIP _____

[92] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is ON. _____

[93] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[94] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[95] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[96] **PLACE** PS/514A, Lo Stm Press Lp1 Ch1 bistable, at 2-R-3, in NORMAL. _____

NOTE

Step 6.8[91] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[97] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[98] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[99] **VERIFY** the following

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[100] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[101] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[102] **PLACE** PS/515A, Lo Stm Press Lp1 Ch2 bistable, at 2-R-7, in TRIP. _____

[103] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[104] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[105] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[106] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[107] **POSITION** the following bistables to NORMAL:

- A. PS/515A, Lo Stm Press Lp1 Ch2, at 2-R-7. _____
- B. PS/516A, Lo Stm Press Lp1 Ch4, at 2-R-12. _____

NOTE

Step 6.8[102] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[108] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[109] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[110] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[111] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[112] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[113] **POSITION** the following bistables to TRIP:

- A. PS/524A, Lo Stm Press Lp2 Ch1, at 2-R-3. _____
- B. PS/525A, Lo Stm Press Lp2 Ch2, at 2-R-8. _____

[114] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO is in ALARM. _____
- C. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[115] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[116] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[117] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[118] **PLACE** PS/525A, Lo Stm Press Lp2 Ch2 bistable, at 2-R-8, in NORMAL. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[119] **VERIFY** the following :

- A. 2-XA-55-4A-70A, SI ACTUATED, is ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO is in CLEAR. _____
- C. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, remains ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, remains ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, remains ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, remains ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, remains ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, remains ON. _____

[120] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[113] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[121] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[122] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

[123] **VERIFY** the following

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. ICS point P0427D (SL2 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

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- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is OFF. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[124] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[125] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[126] **PLACE** PS/526A, Lo Stm Press Lp2 Ch3 bistable, at 2-R-11, in TRIP. _____

[127] **VERIFY** the following (Acc-Crit):

- A. 2-XA-55-4A-70A, SI ACTUATED, is ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

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E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____

G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[128] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. **(Acc Crit)** _____

B. M501 at 2-R-50. **(Acc Crit)** _____

[129] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[130] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[131] **PLACE** PS/524A, Lo Stm Press Lp2 Ch1 bistable, at 2-R-3, in NORMAL. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[126] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[132] **PRESS** the following pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[133] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[134] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____

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- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[135] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[136] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[137] **PLACE** PS/525A, Lo Stm Press Lp2 Ch2 bistable, at 2-R-8, in TRIP. _____

[138] **VERIFY** the following (**Acc-Crit**):

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

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F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____

G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[139] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. **(Acc Crit)** _____

B. M501 at 2-R-50. **(Acc Crit)** _____

[140] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[141] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[142] **POSITION** the following bistables to NORMAL:

A. PS/525A, Lo Stm Press Lp2 Ch2, at 2-R-8. _____

B. PS/526A, Lo Stm Press Lp2 Ch3, at 2-R-11. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[137] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[143] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[144] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[145] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____

F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

G. MISSP Trip Status Light 4 (2-XX-55-60, 2-M-6), MFW, is OFF. _____

[146] **VERIFY** the following Slave Relays are RESET at 2-R-48:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[147] **VERIFY** the following Slave Relays are RESET at 2-R-51:

A. 2-RLY-99-K616 _____

B. 2-RLY-99-K617 _____

C. 2-RLY-99-K623 _____

D. 2-RLY-99-K624 _____

[148] **POSITION** the following bistables to TRIP:

A. PS/534A, Lo Stm Press Lp3 Ch1, at 2-R-4. _____

B. PS/535A, Lo Stm Press Lp3 Ch2, at 2-R-7. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[149] **VERIFY** the following (Acc-Crit):

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. ICS point P0447D (SL3 LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[150] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[151] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[152] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[153] **PLACE** PS/535A, Lo Stm Press Lp3 Ch2 bistable, at 2-R-7, in NORMAL. _____

[154] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- C. ICS point P0447D (SL3 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____

[155] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters;

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[148] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[156] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[157] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[158] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is OFF. _____

[159] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[160] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[161] **PLACE** PS/536A, Lo Stm Press Lp3 Ch3 bistable, at 2-R-11, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[162] **VERIFY** the following (Acc-Crit):

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is ON. _____

[163] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. (Acc Crit) _____
- B. M501 at 2-R-50. (Acc Crit) _____

[164] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[165] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[166] **PLACE** PS/534A, Lo Stm Press Lp3 Ch1 bistable, at 2-R-4, in NORMAL. _____

NOTE

Step 6.8[161] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[167] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-A. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[168] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[169] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[170] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[171] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[172] **PLACE** PS/535A, Lo Stm Press Lp3 Ch2 bistable, at 2-R-7, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[173] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is ON. _____

[174] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[175] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[176] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[177] **POSITION** the following bisables to NORMAL:

- A. PS/535A, Lo Stm Press Lp3 Ch2, at 2-R-7. _____
- B. PS/536A, Lo Stm Press Lp3 Ch3, at 2-R-11. _____

NOTE

Step 6.8[172] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[178] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[179] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[180] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[181] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[182] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[183] **POSITION** the following bistables to TRIP:

- A. PS/544A, Lo Stm Press Lp4 Ch1, at 2-R-4. _____
- B. PS/545A, Lo Stm Press Lp4 Ch2, at 2-R-8. _____

[184] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. ICS point P0467D (SL4 LO PRESSURE SI CAUSES RX TRIP) indicates, TRIP. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is ON. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[185] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[186] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[187] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

[188] **PLACE** PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8, in NORMAL. _____

[189] **VERIFY** the following

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in CLEAR. _____
- C. ICS point P0467D (SL4 LO PRESSURE SI CAUSES RX TRIP) indicates, NOT TR. _____

[190] **VERIFY** 42VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[183] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[191] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[192] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[193] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____

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E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A is OFF.

F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF.

G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is OFF.

[194] **VERIFY** the following Slave Relays are RESET at 2-R-48:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

[195] **VERIFY** the following Slave Relays are RESET at 2-R-51:

A. 2-RLY-99-K616

B. 2-RLY-99-K617

C. 2-RLY-99-K623

D. 2-RLY-99-K624

[196] **PLACE** PS/546A, Lo Stm Press Lp4 Ch4 bistable, at 2-R-12, in TRIP.

[197] **VERIFY** the following (**Acc-Crit**):

A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM.

B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM.

C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6) \emptyset A, is ON.

D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON.

E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON.

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F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____

G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[198] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. **(Acc Crit)** _____

B. M501 at 2-R-50. **(Acc Crit)** _____

[199] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[200] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

A. 2-RLY-99-K616 **(Acc Crit)** _____

B. 2-RLY-99-K617 **(Acc Crit)** _____

C. 2-RLY-99-K623 **(Acc Crit)** _____

D. 2-RLY-99-K624 **(Acc Crit)** _____

[201] **PLACE** PS/544A, Lo Stm Press Lp4 Ch1 bistable, at 2-R-4, in NORMAL. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[196] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[202] **PRESS** the following pushbuttons at 2-M-6

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[203] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[204] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6) CVI is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW is OFF. _____
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[205] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[206] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[207] **PLACE** PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[208] **VERIFY** the following **(Acc-Crit)**:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4D-79G, SI STM PRESS LO, is in ALARM. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- E. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- F. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- G. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- H. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[209] **VERIFY** 0 VDC (\leq 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. **(Acc Crit)** _____
- B. M501 at 2-R-50. **(Acc Crit)** _____

[210] **VERIFY** the following Slave Relays are ACTUATED at 2-R-48:

- A. 2-RLY-99-K616 **(Acc Crit)** _____
- B. 2-RLY-99-K617 **(Acc Crit)** _____
- C. 2-RLY-99-K623 **(Acc Crit)** _____
- D. 2-RLY-99-K624 **(Acc Crit)** _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[211] **VERIFY** the following Slave Relays are ACTUATED at 2-R-51:

- A. 2-RLY-99-K616 (Acc Crit) _____
- B. 2-RLY-99-K617 (Acc Crit) _____
- C. 2-RLY-99-K623 (Acc Crit) _____
- D. 2-RLY-99-K624 (Acc Crit) _____

[212] **ENSURE** the following bistables are in NORMAL:

- A. PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8. _____
- B. PS/546A, Lo Stm Press Lp4 Ch4 bistable, at 2-R-12. _____

NOTE

Step 6.8[207] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[213] **PRESS** the following pushbuttons at 2-M-6

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[214] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- D. **PLACE** 2-HS-1-4A, MSIV SG1, in CLOSE/PULL TO RESET.

[215] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR.
- B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF.
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF.
- D. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF.
- E. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF.
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF.
- G. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF.

[216] **VERIFY** 42VDC (\geq 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47.
- B. M501 at 2-R-50.

[217] **VERIFY** the following Slave Relays are RESET at 2-R-48:

- A. 2-RLY-99-K616
- B. 2-RLY-99-K617
- C. 2-RLY-99-K623
- D. 2-RLY-99-K624

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6.8 Low Steamline Pressure Safety Injection (continued)

[218] **VERIFY** the following Slave Relays are RESET at 2-R-51:

- A. 2-RLY-99-K616 _____
- B. 2-RLY-99-K617 _____
- C. 2-RLY-99-K623 _____
- D. 2-RLY-99-K624 _____

[219] **POSITION** the following bistables to TRIP:

- A. PS/514A, Lo Stm Press Lp1 Ch1, at 2-R-3. _____
- B. PS/524A, Lo Stm Press Lp2 Ch1, at 2-R-3. _____
- C. PS/534A, Lo Stm Press Lp3 Ch1, at 2-R-4. _____
- D. PS/544A, Lo Stm Press Lp4 Ch1, at 2-R-4. _____
- E. PS/515A, Lo Stm Press Lp1 Ch2, at 2-R-7. _____
- F. PS/525A, Lo Stm Press Lp2 Ch2, at 2-R-8. _____
- G. PS/535A, Lo Stm Press Lp3 Ch2, at 2-R-7. _____
- H. PS/545A, Lo Stm Press Lp4 Ch2, at 2-R-8. _____

[220] **VERIFY** 0 VDC (≤ 5 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[221] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K621 _____
- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

W. 2-RLY-99-K630 _____

X. 2-RLY-99-K647 _____

Y. 2-RLY-99-K649 _____

[222] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K602 _____

C. 2-RLY-99-K603 _____

D. 2-RLY-99-K604 _____

E. 2-RLY-99-K605 _____

F. 2-RLY-99-K606 _____

G. 2-RLY-99-K607 _____

H. 2-RLY-99-K608 _____

I. 2-RLY-99-K609 _____

J. 2-RLY-99-K610 _____

K. 2-RLY-99-K611 _____

L. 2-RLY-99-K612 _____

M. 2-RLY-99-K613 _____

N. 2-RLY-99-K614 _____

O. 2-RLY-99-K615 _____

P. 2-RLY-99-K616 _____

Q. 2-RLY-99-K617 _____

R. 2-RLY-99-K620 _____

S. 2-RLY-99-K621 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[223] **POSITION** the following bisables to NORMAL:

- A. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1,
at 2-R-1. _____
- B. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2,
at 2-R-5. _____
- C. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3,
at 2-R-9. _____

[224] **POSITION** the following;

- A. Handswitch 2-HS-63-135A, LO STEAM PRESS SI
BLOCK, in BLOCK. _____
- B. Handswitch 2-HS-63-135B, LO STEAM PRESS SI
BLOCK, in BLOCK. _____

[225] **VERIFY** 42VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

NOTE

Step 6.8[219] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[226] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-A. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[227] **POSITION** the following handswitches, at 2-M-4, to reset Steam Line Isolation:

- A. **ENSURE** 2-HS-1-11A, MSIV SG 2, in CLOSE. _____
- B. **ENSURE** 2-HS-1-22A, MSIV SG 3, in CLOSE. _____
- C. **ENSURE** 2-HS-1-29A, MSIV SG4, in CLOSE. _____
- D. **PLACE** 2-HS-1-4A, MSIV SG 1, in CLOSE/PULL TO RESET. _____

[228] **ROTATE** the following handswitches, at 2-M-6, to RESET:

- A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73. _____
- B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[229] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K621 _____
- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[230] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K616 _____
- Q. 2-RLY-99-K617 _____
- R. 2-RLY-99-K620 _____
- S. 2-RLY-99-K621 _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- T. 2-RLY-99-K622 _____
- U. 2-RLY-99-K623 _____
- V. 2-RLY-99-K624 _____
- W. 2-RLY-99-K630 _____
- X. 2-RLY-99-K647 _____
- Y. 2-RLY-99-K649 _____

[231] **VERIFY** 42VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

| | | |
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6.8 Low Steamline Pressure Safety Injection (continued)

[232] **POSITION** the following:

- A. PS/514A, Lo Stm Press Lp1 Ch1 bistable, at 2-R-3,
in NORMAL. _____
- B. PS/524A, Lo Stm Press Lp2 Ch1 bistable, at 2-R-3,
in NORMAL. _____
- C. PS/534A, Lo Stm Press Lp3 Ch1 bistable, at 2-R-4,
in NORMAL. _____
- D. PS/544A, Lo Stm Press Lp4 Ch1 bistable, at 2-R-4,
in NORMAL. _____
- E. PS/515A, Lo Stm Press Lp1 Ch2 bistable, at 2-R-7,
in NORMAL. _____
- F. PS/525A, Lo Stm Press Lp2 Ch2 bistable, at 2-R-8,
in NORMAL. _____
- G. PS/535A, Lo Stm Press Lp3 Ch2 bistable, at 2-R-7,
in NORMAL. _____
- H. PS/545A, Lo Stm Press Lp4 Ch2 bistable, at 2-R-8,
in NORMAL. _____
- I. PS/455B, (Pzr Press) Enable Manual Block of SI Ch1
bistable, at 2-R-1, in TRIP. _____
- J. PS/456B, (Pzr Press) Enable Manual Block of SI Ch2
bistable, at 2-R-5, in TRIP. _____
- K. PS/457B, (Pzr Press) Enable Manual Block of SI Ch3
bistable, at 2-R-9, in TRIP. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

[233] **VERIFY** the following:

- A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____
- B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____
- C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____
- D. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- E. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- F. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- G. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- H. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- I. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- J. 2-XA-55-6B-116A, SG 1 PRESS LO, is CLEAR. _____
- K. 2-XA-55-6B-117A, SG 2 PRESS LO, is CLEAR. _____
- L. 2-XA-55-6B-119A, SG4 PRESS LO, is CLEAR. _____
- M. 2-XA-55-6B-118A, SG 3 PRESS LO, is CLEAR. _____
- N. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____
- O. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- P. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- Q. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____
- R. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

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6.8 Low Steamline Pressure Safety Injection (continued)

- S. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[234] **VERIFY** the following:

- A. Trip Status Light 1 (2-XX-55-6B, 2-M-6) SG1 PRESS LO
PS-1-2A, is OFF. _____
- B. Trip Status Light 2 (2-XX-55-6B, 2-M-6) SG2 PRESS LO
PS-1-9A, is OFF. _____
- C. Trip Status Light 3 (2-XX-55-6B, 2-M-6) SG3 PRESS LO
PS-1-20A, is OFF. _____
- D. Trip Status Light 4 (2-XX-55-6B, 2-M-6) SG4 PRESS LO
PS-1-27A, is OFF. _____
- E. Trip Status Light 25 (2-XX-55-6B, 2-M-6), SG1 PRESS
LO PS-1-2B, is OFF. _____
- F. Trip Status Light 26 (2-XX-55-6B, 2-M-6), SG2 PRESS
LO PS-1-9B, is OFF. _____
- G. Trip Status Light 27 (2-XX-55-6B, 2-M-6), SG3 PRESS
LO PS-1-20B, is OFF. _____
- H. Trip Status Light 28 (2-XX-55-6B, 2-M-6), SG4 PRESS
LO PS-1-27B, is OFF. _____
- I. Trip Status Light 73 (2-XX-55-6B, 2-M-6), SG1 PRESS
LO PS-1-5A, is OFF. _____
- J. Trip Status Light 50 (2-XX-55-6B, 2-M-6), SG2 PRESS
LO PS-1-12A, is OFF. _____
- K. Trip Status Light 51 (2-XX-55-6B, 2-M-6), SG3 PRESS
LO PS-1-23A, is OFF. _____
- L. Trip Status Light 76 (2-XX-55-6B, 2-M-6), SG4 PRESS
LO PS-1-30A, is OFF. _____

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6.9 Manual Containment Phase A Ventilation/Isolation

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.9 have been completed. _____

[2] **VERIFY** the following;

A. 2-XA-55-4A-70A, SI ACTUATED, at 2-XA-55-4A, is CLEAR. _____

B. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is OFF. _____

C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

D. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is OFF. _____

E. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

[3] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

A. M501 at Panel 2-R-47. _____

B. M501 at Panel 2-R-50. _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[4] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

A. 2-RLY-99-K605

B. 2-RLY-99-K606

C. 2-RLY-99-K607

D. 2-RLY-99-K612

E. 2-RLY-99-K613

F. 2-RLY-99-K614

G. 2-RLY-99-K615

H. 2-RLY-99-K622

I. 2-RLY-99-K630

[5] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

A. 2-RLY-99-K605

B. 2-RLY-99-K606

C. 2-RLY-99-K607

D. 2-RLY-99-K612

E. 2-RLY-99-K613

F. 2-RLY-99-K614

G. 2-RLY-99-K615

H. 2-RLY-99-K622

I. 2-RLY-99-K630

[6] **ROTATE** Handswitch 2-HS-30-63A, at 2-M-6, ØA & CNTMT VENT ISOL, to ACTUATE.

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[7] **VERIFY** the following:

- A. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is ON. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

[8] **VERIFY** 42 VDC (≥ 35 VDC) on the following UV Coil Meters:

- A. M501 at 2-R-47. _____
- B. M501 at 2-R-50. _____

[9] **VERIFY** the following Slave Relays are ACTUATED, at Panel 2-R-48:

- A. 2-RLY-99-K605 (Acc Crit) _____
- B. 2-RLY-99-K606 (Acc Crit) _____
- C. 2-RLY-99-K607 (Acc Crit) _____
- D. 2-RLY-99-K612 (Acc Crit) _____
- E. 2-RLY-99-K613 (Acc Crit) _____
- F. 2-RLY-99-K614 (Acc Crit) _____
- G. 2-RLY-99-K615 (Acc Crit) _____
- H. 2-RLY-99-K622 (Acc Crit) _____
- I. 2-RLY-99-K630 (Acc Crit) _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[10] **VERIFY** the following Slave Relays are ACTUATED, at Panel 2-R-51:

- A. 2-RLY-99-K605 (Acc Crit) _____
- B. 2-RLY-99-K606 (Acc Crit) _____
- C. 2-RLY-99-K607 (Acc Crit) _____
- D. 2-RLY-99-K612 (Acc Crit) _____
- E. 2-RLY-99-K613 (Acc Crit) _____
- F. 2-RLY-99-K614 (Acc Crit) _____
- G. 2-RLY-99-K615 (Acc Crit) _____
- H. 2-RLY-99-K622 (Acc Crit) _____
- I. 2-RLY-99-K630 (Acc Crit) _____

[11] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-30-63D, ØA CNTMT ISOL RESET, TR-A. _____
- B. 2-HS-30-63E, ØA CNTMT ISOL RESET, TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

[12] **VERIFY** the following:

- A. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is OFF. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[13] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

- A. 2-RLY-99-K605 _____
- B. 2-RLY-99-K606 _____
- C. 2-RLY-99-K607 _____
- D. 2-RLY-99-K612 _____
- E. 2-RLY-99-K613 _____
- F. 2-RLY-99-K614 _____
- G. 2-RLY-99-K615 _____
- H. 2-RLY-99-K622 _____
- I. 2-RLY-99-K630 _____

[14] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

- A. 2-RLY-99-K605 _____
- B. 2-RLY-99-K606 _____
- C. 2-RLY-99-K607 _____
- D. 2-RLY-99-K612 _____
- E. 2-RLY-99-K613 _____
- F. 2-RLY-99-K614 _____
- G. 2-RLY-99-K615 _____
- H. 2-RLY-99-K622 _____
- I. 2-RLY-99-K630 _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[15] **ROTATE** Handswitch 2-HS-30-63B, at 2-M-6, ØA & CNTMT VENT ISOL, to ACTUATE. _____

[16] **VERIFY** the following:

A. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is ON. _____

B. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____

C. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is ON. _____

D. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

[17] **VERIFY** 42 VDC (\geq 35 VDC) on the following UV Coil Meters:

A. M501 at 2-R-47. _____

B. M501 at 2-R-50. _____

[18] **VERIFY** the following Slave Relays are ACTUATED, at Panel 2-R-48:

A. 2-RLY-99-K605 (Acc Crit) _____

B. 2-RLY-99-K606 (Acc Crit) _____

C. 2-RLY-99-K607 (Acc Crit) _____

D. 2-RLY-99-K612 (Acc Crit) _____

E. 2-RLY-99-K613 (Acc Crit) _____

F. 2-RLY-99-K614 (Acc Crit) _____

G. 2-RLY-99-K615 (Acc Crit) _____

H. 2-RLY-99-K622 (Acc Crit) _____

I. 2-RLY-99-K630 (Acc Crit) _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[19] **VERIFY** the following Slave Relays are ACTUATED, at Panel 2-R-51:

- A. 2-RLY-99-K605 (Acc Crit) _____
- B. 2-RLY-99-K606 (Acc Crit) _____
- C. 2-RLY-99-K607 (Acc Crit) _____
- D. 2-RLY-99-K612 (Acc Crit) _____
- E. 2-RLY-99-K613 (Acc Crit) _____
- F. 2-RLY-99-K614 (Acc Crit) _____
- G. 2-RLY-99-K615 (Acc Crit) _____
- H. 2-RLY-99-K622 (Acc Crit) _____
- I. 2-RLY-99-K630 (Acc Crit) _____

[20] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-30-63D, ØA CNTMT ISOL RESET, TR-A. _____
- B. 2-HS-30-63E, ØA CNTMT ISOL RESET, TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

[21] **VERIFY** the following:

- A. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- C. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), ØA, is OFF. _____
- D. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[22] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

- A. 2-RLY-99-K605 _____
- B. 2-RLY-99-K606 _____
- C. 2-RLY-99-K607 _____
- D. 2-RLY-99-K612 _____
- E. 2-RLY-99-K613 _____
- F. 2-RLY-99-K614 _____
- G. 2-RLY-99-K615 _____
- H. 2-RLY-99-K622 _____
- I. 2-RLY-99-K630 _____

[23] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

- A. 2-RLY-99-K605 _____
- B. 2-RLY-99-K606 _____
- C. 2-RLY-99-K607 _____
- D. 2-RLY-99-K612 _____
- E. 2-RLY-99-K613 _____
- F. 2-RLY-99-K614 _____
- G. 2-RLY-99-K615 _____
- H. 2-RLY-99-K622 _____
- I. 2-RLY-99-K630 _____

[24] **CLOSE** the Test Switch Jumper at TB506 Terminal Points 1 and 2 in 2-R-47 to simulate Containment Hi Radiation. _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[25] **VERIFY** the following:

A. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is ON. _____

B. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is OFF. _____

[26] **VERIFY** the following Slave Relays are ACTUATED, at
2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[27] **VERIFY** the following Slave Relays remain RESET,
at 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[28] **OPEN** the Test Switch Jumper at Terminal Block TB506
across Terminal Points 1 and 2, in Panel 2-R-47 to simulate no
Containment Hi Radiation. _____

[29] **VERIFY** the following Slave Relays remain ACTUATED, at
2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[30] **PRESS** pushbutton 2-HS-30-65A, CNTMT VENT ISOL RESET
TR-A, at 2-M-6. _____

[31] **VERIFY** MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6) CVI,
is OFF. _____

[32] **VERIFY** the following Slave Relays are RESET, at Panel
2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[33] **VERIFY** the following Slave Relays remain RESET, at Panel 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[34] **CLOSE** the Test Switch Jumper at Terminal Block TB506 across Terminal Points 1 and 2, in 2-R-50, to simulate Containment Hi Radiation. _____

[35] **VERIFY** the following:

A. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

B. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____

[36] **VERIFY** the following Slave Relays are ACTUATED, at 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[37] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[38] **OPEN** the Test Switch Jumper at Terminal Block TB506 across Terminal Points 1 and 2, in Panel 2-R-50 to simulate no Containment Hi Radiation. _____

[39] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[40] **PRESS** Pushbutton 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B, at 2-M-6. _____

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6.9 Manual Containment Phase A Ventilation/Isolation (continued)

[41] **VERIFY** the following:

A. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____

B. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is OFF. _____

[42] **VERIFY** the following Slave Relays are RESET, at Panel
2-R-51:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

[43] **VERIFY** the following Slave Relays remain RESET, at Panel
2-R-48:

A. 2-RLY-99-K615 _____

B. 2-RLY-99-K622 _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12

- [1] **VERIFY** prerequisites listed in section 4.0 for subsection 6.10 have been completed. _____
- [2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at Panel 2-R-47, in A + B. _____
- [3] **VERIFY** the following:
 - A. Trip Status Light 13 (2-XX-55-5, 2-M-5), LOOP 1 LO LO TAVG TS-68-2J, is OFF. _____
 - B. Trip Status Light 33 (2-XX-55-5, 2-M-5), LOOP 2 LO LO TAVG TS-68-25J, is OFF. _____
 - C. Trip Status Light 53 (2-XX-55-5, 2-M-5) LOOP 3 LO LO TAVG TS-68-44J, is OFF. _____
 - D. Trip Status Light 73 (2-XX-55-5, 2-M-5), LOOP 4 LO LO TAVG TS-68-67J, is OFF. _____
 - E. 2-XA-55-6B-123E, TAVG LO-LO, is CLEAR. _____
 - F. 2-XA-55-4A-68A, P-12 LO-LO TAVG STM DUMP BLK, is CLEAR. _____
 - G. TS/412D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-2, in NORMAL. _____
 - H. TS/422D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-6, in NORMAL. _____
 - I. TS/432D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-10, in NORMAL. _____
 - J. TS/442D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-13, in NORMAL. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[4] **VERIFY** the following pre-test contact condition for Slave Relay K631, at Panel 2-R-48:

A. TB 652 points 5 and 6 are OPEN. _____

B. TB 652 points 7 and 8 are OPEN. _____

C. TB 652 points 9 and 10 are OPEN. _____

D. TB 652 points 11 and 12 are OPEN. _____

[5] **VERIFY** the following pre-test contact condition for Slave Relay K631, at Panel 2-R-51:

A. TB 652 points 5 and 6 are OPEN. _____

B. TB 652 points 7 and 8 are OPEN. _____

C. TB 652 points 9 and 10 are OPEN. _____

D. TB 652 points 11 and 12 are OPEN. _____

[6] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in TRIP. _____

[7] **VERIFY** the following:

A. 2-XA-55-6B-123E, TAVG LO-LO, is in ALARM. _____

B. Trip Status Light 33 (2-XX-55-5, 2-M-5), LOOP 2 LO LO TAVG TS-68-25J, is ON. _____

C. ICS point T0428D (LP2 LO-LO T_{AVG} P12 PART PERM) indicates, SET. _____

[8] **VERIFY** the following Slave Relays remain RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[9] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in NORMAL. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[10] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in CLEAR. _____
- B. Trip Status Light 33 (2-XX-55-5, 2-M-5), LOOP 2 LO LO TAVG TS-68-25J, is OFF. _____
- C. ICS point T0428D (LP2 LO-LO T_{AVG} P12 PART PERM) indicates, RESET. _____

[11] **PLACE** TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in TRIP. _____

[12] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in ALARM. _____
- B. Trip Status Light 53 (2-XX-55-5, 2-M-5), LOOP 3 LO LO TAVG TS-68-44J, is ON. _____
- C. ICS point T0448D (LP3 LO-LO T_{AVG} P12 PART PERM) indicates, SET. _____

[13] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K631, at 2-R-48. _____
- B. 2-RLY-99-K631, at 2-R-51. _____

[14] **PLACE** TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in NORMAL. _____

[15] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in CLEAR. _____
- B. Trip Status Light 53 (2-XX-55-5, 2-M-5), LOOP 2 LO LO TAVG TS-68-44J, is OFF. _____
- C. ICS point T0448D indicates, (LP3 LO-LO T_{AVG} P12 PART PERM) RESET. _____

[16] **PLACE** TS/442D, Loop 4 Lo-Lo T_{AVG} bistable, at 2-R-13, in TRIP. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[17] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in ALARM. _____
- B. Trip Status Light 73 (2-XX-55-5, 2-M-5), LOOP 4 LO LO TAVG TS-68-67J, is ON. _____
- C. ICS point T0468D (LP4 LO-LO T_{AVG} P12 PART PERM) indicates, SET. _____

[18] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K631, at 2-R-48. _____
- B. 2-RLY-99-K631, at 2-R-51. _____

[19] **PLACE** TS/442D, Loop 4 Lo-Lo T_{AVG} bistable, at 2-R-13, in NORMAL. _____

[20] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in CLEAR. _____
- B. Trip Status Light 73 (2-XX-55-5, 2-M-5), LOOP 4 LO LO TAVG TS-68-67J, is OFF. _____
- C. ICS point T0468D (LP4 LO-LO T_{AVG} P12 PART PERM) indicates, RESET. _____

[21] **PLACE** TS/412D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-2, in TRIP. _____

[22] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is in ALARM. _____
- B. Trip Status Light 13 (2-XX-55-5, 2-M-5), LOOP 1 LO LO TAVG TS-68-2J, is ON. _____
- C. ICS point T0408D (LP1 LO-LO T_{AVG} P12 PART PERM) indicates, SET. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[23] **VERIFY** the following Slave Relays remain RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[24] **PLACE** TS/412D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-2, in NORMAL. _____

[25] **VERIFY** the following:

A. 2-XA-55-6B-123E, TAVG LO-LO, is in CLEAR. _____

B. Trip Status Light 13 (2-XX-55-5, 2-M-5), LOOP 1 LO LO TAVG TS-68-2J, is OFF. _____

C. ICS point T0408D (LP1 LO-LO T_{AVG} P12 PART PERM) indicates, RESET. _____

[26] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH at Panel 2-R-47 in NORMAL. _____

[27] **POSITION** the following bisables to TRIP:

A. TS/412D, Loop 1 Lo-Lo T_{AVG}, at 2-R-2. _____

B. TS/422D, Loop 2 Lo-Lo T_{AVG}, at 2-R-6. _____

[28] **VERIFY** the following:

A. 2-XA-55-6B-123E, TAVG LO-LO, is in ALARM. _____

B. 2-XA-55-4A-68A, P-12 LO-LO TAVG STM DUMP BLK, is in ALARM. _____

[29] **VERIFY** the following ACTUATED contact condition for Slave Relay K631, at 2-R-48:

A. TB 652 points 5 and 6 are CLOSED. **(Acc Crit)** _____

B. TB 652 points 7 and 8 are CLOSED. **(Acc Crit)** _____

C. TB 652 points 9 and 10 are CLOSED. **(Acc Crit)** _____

D. TB 652 points 11 and 12 are CLOSED. **(Acc Crit)** _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[30] **VERIFY** the following ACTUATED contact condition for Slave Relay K631, at 2-R-51:

- A. TB 652 points 5 and 6 are CLOSED. **(Acc Crit)** _____
- B. TB 652 points 7 and 8 are CLOSED. **(Acc Crit)** _____
- C. TB 652 points 9 and 10 are CLOSED. **(Acc Crit)** _____
- D. TB 652 points 11 and 12 are CLOSED. **(Acc Crit)** _____

[31] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in NORMAL and

VERIFY the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, remains in ALARM. _____
- B. 2-XA-55-4A-68A, P-12 LO-LO TAVG STM DUMP BLK, is CLEAR. _____

[32] **VERIFY** the following RESET contact condition for Slave Relay K631, at 2-R-48:

- A. TB 652 points 5 and 6 are OPEN. _____
- B. TB 652 points 7 and 8 are OPEN. _____
- C. TB 652 points 9 and 10 are OPEN. _____
- D. TB 652 points 11 and 12 are OPEN. _____

[33] **VERIFY** the following RESET contact condition for Slave Relay K631, at 2-R-51:

- A. TB 652 points 5 and 6 are OPEN. _____
- B. TB 652 points 7 and 8 are OPEN. _____
- C. TB 652 points 9 and 10 are OPEN. _____
- D. TB 652 points 11 and 12 are OPEN. _____

[34] **PLACE** TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in TRIP. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[35] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K631, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K631, at 2-R-51. **(Acc Crit)** _____

[36] **PLACE** TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in NORMAL. _____

[37] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[38] **PLACE** TS/442D, Loop 4 Lo-Lo T_{AVG} bistable, at 2-R-13, in TRIP. _____

[39] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K631, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K631, at 2-R-51. **(Acc Crit)** _____

[40] **PLACE** TS/412D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-2, in NORMAL. _____

[41] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[42] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in TRIP. _____

[43] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K631, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K631, at 2-R-51. **(Acc Crit)** _____

[44] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in NORMAL. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[45] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[46] **PLACE** TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in TRIP. _____

[47] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K631, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K631, at 2-R-51. **(Acc Crit)** _____

[48] **PLACE** TS/442D, Loop 4 Lo-Lo T_{AVG} bistable, at 2-R-13, in NORMAL. _____

[49] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

[50] **PLACE** TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in TRIP. _____

[51] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K631, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K631, at 2-R-51. **(Acc Crit)** _____

[52] **POSITION** the following bisables to NORMAL:

A. TS/432D, Loop 3 Lo-Lo T_{AVG}, at 2-R-10. _____

B. TS/422D, Loop 2 Lo-Lo T_{AVG}, at 2-R-6. _____

[53] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K631, at 2-R-48. _____

B. 2-RLY-99-K631, at 2-R-51. _____

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6.10 Lo-Lo Tavg Steam Dump Interlock P-12 (continued)

[54] **VERIFY** the following:

- A. 2-XA-55-6B-123E, TAVG LO-LO, is CLEAR. _____
- B. 2-XA-55-4A-68A, P-12 LO-LO TAVG STM DUMP BLK, is CLEAR. _____
- C. Trip Status Light 13 (2-XX-55-5, 2-M-5), LOOP 1 LO LO TAVG TS-68-2J, is OFF. _____
- D. Trip Status Light 33 (2-XX-55-5, 2-M-5), LOOP 2 LO LO TAVG TS-68-25J, is OFF. _____
- E. Trip Status Light 53 (2-XX-55-5, 2-M-5), LOOP 3 LO LO TAVG TS-68-44J, is OFF. _____
- F. Trip Status Light 73 (2-XX-55-5, 2-M-5), LOOP 4 LO LO TAVG TS-68-67J, is OFF. _____
- G. TS/412D, Loop 1 Lo-Lo T_{AVG} bistable, at 2-R-2, in NORMAL. _____
- H. TS/422D, Loop 2 Lo-Lo T_{AVG} bistable, at 2-R-6, in NORMAL. _____
- I. TS/432D, Loop 3 Lo-Lo T_{AVG} bistable, at 2-R-10, in NORMAL. _____
- J. TS/442D, Loop 4 Lo-Lo T_{AVG} bistable, at 2-R-13, in NORMAL. _____

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6.11 Low Tavg/P-4 Feedwater Isolation

[1] **VERIFY** prerequisites listed in section 4.0 for subsection 6.11 have been completed. _____

[2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in A + B. _____

[3] **VERIFY** the following:

A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____

B. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____

C. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____

D. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____

E. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____

F. 2-XA-55-6B-119B, SG 4 LEVEL HI-HI, is CLEAR. _____

G. Trip Status Light 12 (2-XX-55-5, 2-M-5), LOOP 1 LO TAVG TS-68-2K, is OFF. _____

H. Trip Status Light 32 (2-XX-55-5, 2-M-5), LOOP 2 LO TAVG TS-68-25K, is OFF. _____

I. Trip Status Light 52 (2-XX-55-5, 2-M-5), LOOP 3 LO TAVG TS-68-44K, is OFF. _____

J. Trip Status Light 72 (2-XX-55-5, 2-M-5), LOOP 4 LO TAVG TS-68-67K, is OFF. _____

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6.11 Low Tavq/P-4 Feedwater Isolation (continued)

[4] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-48:

A. 2-RLY-99-K601

B. 2-RLY-99-K610

C. 2-RLY-99-K620

D. 2-RLY-99-K621

E. 2-RLY-99-K636

F. 2-RLY-99-K637

G. 2-RLY-99-K649

[5] **VERIFY** the following Slave Relays are RESET, at Panel 2-R-51:

A. 2-RLY-99-K601

B. 2-RLY-99-K610

C. 2-RLY-99-K620

D. 2-RLY-99-K621

E. 2-RLY-99-K636

F. 2-RLY-99-K637

G. 2-RLY-99-K649

[6] **CLOSE** the Switched Jumpers (P-4 Test Switch), to simulate Reactor TRIPPED, in the following locations:

A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5.

B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5.

[7] **VERIFY** a pretest contact condition per Table 11.

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[8] **VERIFY** the following

A. ICS point Y2407D (SSPS TURBINE TRIP TRAIN A) indicates, TRIP. _____

B. ICS point Y2417D (SSPS TURBINE TRIP TRAIN B) indicates, TRIP. _____

[9] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6, in TRIP. _____

[10] **VERIFY** the following:

A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____

B. Trip Status Light 32 (2-XX-55-5, 2-M-5), LOOP 2 LO TAVG TS-68-25K, is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____

D. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[11] **VERIFY** the following Slave Relays remain RESET:

A. 2-RLY-99-K636 at 2-R-48. _____

B. 2-RLY-99-K637 at 2-R-48. _____

C. 2-RLY-99-K636 at 2-R-51. _____

D. 2-RLY-99-K637 at 2-R-51. _____

[12] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6, in NORMAL. _____

[13] **VERIFY** Trip Status Light 32 (2-XX-55-5, 2-M-5), LOOP 2 LO TAVG TS-68-25K, is OFF. _____

[14] **PLACE** TS/432G, Loop 3 Lo T_{AVG} (Fw Isol) bistable, at 2-R-10, in TRIP. _____

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6.11 Low TavG/P-4 Feedwater Isolation (continued)

[15] **VERIFY** the following:

- A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____
- B. Trip Status Light 52 (2-XX-55-5, 2-M-5), LOOP 3 LO TAVG TS-68-44K, is ON. _____
- C. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[16] **PLACE** TS/432G, Loop 3 Lo T_{AVG} (Fw Isol) bistable, at 2-R-10, in NORMAL. _____

[17] **VERIFY** Trip Status Light 52 (2-XX-55-5, 2-M-5), LOOP 3 LO TAVG TS-68-44K, is OFF. _____

[18] **PLACE** TS/442G, Loop 4 Lo T_{AVG} (Fw Isol) bistable, at 2-R-13, in TRIP. _____

[19] **VERIFY** the following:

- A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____
- B. Trip Status Light 72 (2-XX-55-5, 2-M-5), LOOP 4 LO TAVG TS-68-67K, is ON. _____
- C. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[20] **PLACE** TS/442G, Loop 4 Lo T_{AVG} (Fw Isol) bistable, at 2-R-13, in NORMAL. _____

[21] **VERIFY** Trip Status Light 72 (2-XX-55-5, 2-M-5), LOOP 4 LO TAVG TS-68-67K, is OFF. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[22] **PLACE** TS/412G, Loop 1 Lo T_{AVG} (Fw Isol) bistable, at 2-R-2, in TRIP.

[23] **VERIFY** the following:

A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is CLEAR.

B. Trip Status Light 12 (2-XX-55-5, 2-M-5), LOOP 1 LO TAVG TS-68-2K, is ON.

C. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF.

D. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF.

[24] **PLACE** TS/412G, Loop 1 Lo T_{AVG} (Fw Isol) bistable, at 2-R-2, in NORMAL.

[25] **VERIFY** Trip Status Light 12 (2-XX-55-5, 2-M-5), LOOP 1 LO TAVG TS-68-2K, is OFF.

[26] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in NORMAL.

[27] **POSITION** the following bistables to TRIP:

A. TS/412G, Loop 1 Lo T_{AVG} (Fw Isol), at 2-R-2.

B. TS/422G, Loop 2 Lo T_{AVG} (Fw Isol), at 2-R-6.

[28] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C, LO TAVG WITH RX TRIP MFW ISOL, is in ALARM.

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON.

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON.

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6.11 Low Tav_g/P-4 Feedwater Isolation (continued)

[29] **VERIFY** the following Slave Relays, remain RESET, at Panel 2-R-48:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K610 _____

C. 2-RLY-99-K620 _____

D. 2-RLY-99-K649 _____

[30] **VERIFY** the following Slave Relays, remain RESET, at Panel 2-R-51:

A. 2-RLY-99-K601 _____

B. 2-RLY-99-K610 _____

C. 2-RLY-99-K620 _____

D. 2-RLY-99-K649 _____

[31] **VERIFY** an ACTUATED contact condition per Table 11.
(Acc Crit) _____

[32] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____

[33] **VERIFY** the following:

A. ICS point Y2407D (SSPS TURBINE TRIP TRAIN A) indicates, TRIP. _____

B. ICS point Y2417D (SSPS TURBINE TRIP TRAIN B) indicates, TRIP. _____

[34] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6, in NORMAL. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[35] **VERIFY** the following:

- A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL, remains in ALARM. _____
- B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[36] **VERIFY** the following Slave Relays remain ACTUATED:

- A. 2-RLY-99-K621 at 2-R-48 _____
- B. 2-RLY-99-K636 at 2-R-48 _____
- C. 2-RLY-99-K637 at 2-R-48 _____
- D. 2-RLY-99-K621 at 2-R-51 _____
- E. 2-RLY-99-K636 at 2-R-51 _____
- F. 2-RLY-99-K637 at 2-R-51 _____

[37] **PLACE** the following Handswitches, at 2-M-3, to RESET:

- A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____
- B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[38] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

- A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____
- B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[39] **VERIFY** a RESET contact condition per Table 11. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[40] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K621, at 2-R-48. _____

B. 2-RLY-99-K621, at 2-R-51. _____

[41] **VERIFY** the following:

A. ICS point Y2407D (SSPS TURBINE TRIP TRAIN A) indicates, NO TRIP. _____

B. ICS point Y2417D (SSPS TURBINE TRIP TRAIN B) indicates, NO TRIP. _____

[42] **VERIFY** the following:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[43] **PLACE** TS/432G, Loop 3 Lo T_{AVG} (Fw Isol) bistable, at 2-R-10, in TRIP. _____

[44] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL, is in ALARM. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____

[45] **PLACE** TS/432G, Loop 3 Lo T_{AVG} (Fw Isol) bistable, at 2-R-10, in NORMAL. _____

| | | |
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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[46] **PLACE** the following Handswitches, at 2-M-3, to RESET:

A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____

B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[47] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____

B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[48] **VERIFY** the following:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is CLEAR. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[49] **PLACE** TS/442G, Loop 4 Lo T_{AVG} (Fw Isol) bistable, at 2-R-13,
in TRIP. _____

[50] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is in ALARM. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[51] **PLACE** TS/412G, Loop 1 Lo T_{AVG} (Fw Isol) bistable, at 2-R-2,
in NORMAL. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[52] **PLACE** the following Handswitches, at 2-M-3, to RESET:

A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____

B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[53] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____

B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[54] **VERIFY** the following:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is CLEAR. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW
is OFF. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[55] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6,
in TRIP. _____

[56] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is in ALARM. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[57] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6,
in NORMAL. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[58] **PLACE** the following Handswitches, at 2-M-3, to RESET:

A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____

B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[59] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____

B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[60] **VERIFY** the following:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is CLEAR. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[61] **PLACE** TS/432G, Loop 3 Lo T_{AVG} (Fw Isol) bistable, at 2-R-10,
in TRIP. _____

[62] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is in ALARM. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[63] **PLACE** TS/442G, Loop 4 Lo T_{AVG} (Fw Isol) bistable, at 2-R-13,
in NORMAL. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[64] **PLACE** the following Handswitches, at 2-M-3, to RESET:

A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____

B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[65] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____

B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[66] **VERIFY** the following:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is CLEAR. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[67] **PLACE** TS/422G, Loop 2 Lo T_{AVG} (Fw Isol) bistable, at 2-R-6,
in TRIP. _____

[68] **VERIFY** the following **(Acc Crit)**:

A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL,
is in ALARM. _____

B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[69] **OPEN** the Switched Jumpers (P4 Test Switch), to simulate
Reactor NOT TRIPPED, in the following locations:

A. Panel 2-R-47, Terminal Block TB506 across Terminal
Points 4 and 5. _____

B. Panel 2-R-50, Terminal Block TB506 across Terminal
Points 4 and 5. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

[70] **PLACE** the following Handswitches, at 2-M-3, to RESET:

- A. 2-HS-3-99A1, MFW ISOL ACT RESET TR-A. _____
- B. 2-HS-3-99B1, MFW ISOL ACT RESET TR-B. _____

[71] **PRESS** the following Pushbuttons, at 2-M-3, to RESET:

- A. 2-HS-3-99A2, RESET TR-A MFW ISOL. _____
- B. 2-HS-3-99B2, RESET TR-B MFW ISOL. _____

[72] **VERIFY** the following:

- A. 2-XA-55-3C-58C LO TAVG WITH RX TRIP MFW ISOL, is CLEAR. _____
- B. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- C. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____

[73] **POSITION** the following bistables to NORMAL:

- A. TS/422G, Loop 2 Lo T_{AVG} (Fw Isol), at 2-R-6. _____
- B. TS/432G, Loop 3 La T_{AVG} (Fw Isol), at 2-R-10. _____

[74] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- C. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- D. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____
- E. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____
- F. Trip Status Light 12 (2-XX-55-5, 2-M-5), LOOP 1 LO TAVG TS-68-2K, is OFF. _____
- G. Trip Status Light 32 (2-XX-55-5, 2-M-5), LOOP 2 LO TAVG TS-68-25K, is OFF. _____

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6.11 Low Tavg/P-4 Feedwater Isolation (continued)

H. Trip Status Light 52 (2-XX-55-5, 2-M-5), LOOP 3 LO
TAVG TS-68-44K, is OFF.

I. Trip Status Light 72 (2-XX-55-5, 2-M-5), LOOP 4 LO
TAVG TS-68-67K, is OFF.

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over

[1] **VERIFY** prerequisites listed in Section 4.0 for subsection 6.12 have been completed. _____

[2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in A + B. _____

[3] **ENSURE** the following bistables in NORMAL:

A. LS/913A, Auto Recirc Low Interlock (RWST Level Ch1, at 2-R-3. _____

B. LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1), at 2-R-4. _____

C. LS/914A, Auto Recirc Low Interlock (RWST Level Ch2), at 2-R-. _____

D. LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8. _____

E. LS/915A, Auto Recirc Low Interlock (RWST Level Ch3), at 2-R-9. _____

F. LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3), at 2-R-11. _____

G. LS/916A, Auto Recirc Low Interlock (RWST Level Ch4), at 2-R-28. _____

H. LS/941A, Auto Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[4] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK,
is CLEAR. _____
- B. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK,
is CLEAR. _____
- C. Trip Status Light 15 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-50A, is OFF. _____
- D. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-51A, is OFF. _____
- E. Trip Status Light 55 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-52A, is OFF. _____
- F. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-53A, is OFF. _____
- G. Trip Status Light 8 (2-XX-55-6A, 2-M-6) CNTMT SUMP
LEVEL HI LS-63-180, is OFF. _____
- H. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-181, is OFF. _____
- I. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-182, is OFF. _____
- J. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-183, is OFF. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation.

- [5] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K648, at 2-R-48:
 - A. 2-RLY-99-K648 Contact Points 1, 2 OPEN. _____
 - B. 2-RLY-99-K648 Contact Points 3, 4 OPEN. _____
- [6] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K648, at 2-R-51:
 - A. 2-RLY-99-K648 Contact Points 1, 2 OPEN. _____
 - B. 2-RLY-99-K648 Contact Points 3, 4 OPEN. _____
- [7] **PLACE** LS/913A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-3, in TRIP. _____
- [8] **VERIFY** the following:
 - A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
 - B. Trip Status Light 15 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-50A, is ON. _____
- [9] **PLACE** LS/913A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-3, in NORMAL. _____
- [10] **VERIFY** the following:
 - A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
 - B. Trip Status Light 15 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-50A, is OFF. _____
- [11] **PLACE** LS/914A, Auto Recirc Low Interlock (RWST Level Ch2) bistable, at 2-R-7, in TRIP. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[12] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-51A, is ON. _____

[13] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[14] **PLACE** LS/914A, Auto Recirc Low Interlock (RWST Level Ch2) bistable, at 2-R-7, in NORMAL. _____

[15] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-51A, is OFF. _____

[16] **PLACE** LS/915A, Auto Recirc Low Interlock (RWST Level Ch3) bistable, at 2-R-9, in TRIP. _____

[17] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 55 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-52A, is ON. _____

[18] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[19] **PLACE** LS/915A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-9, in NORMAL. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[20] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 55 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-52A, is OFF. _____

[21] **PLACE** LS/916A, Auto Recirc Low Interlock (RWST Level Ch4) bistable, at 2-R-28, in TRIP. _____

[22] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-53A, is ON. _____

[23] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[24] **PLACE** LS/916A, Auto Recirc Low Interlock (RWST Level Ch4) bistable, at 2-R-28, in NORMAL. _____

[25] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-53A, is OFF. _____

[26] **PLACE** LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1) bistable, at 2-R-4 in TRIP. _____

[27] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 8 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-180, is ON. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[28] **PLACE** LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1) bistable, at 2-R-4, in NORMAL. _____

[29] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is CLEAR. _____

B. Trip Status Light 8 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-180, is OFF. _____

[30] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-8, in TRIP. _____

[31] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

B. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-181, is ON. _____

[32] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-8, in NORMAL. _____

[33] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is CLEAR. _____

B. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-181, is OFF. _____

[34] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-11, in TRIP. _____

[35] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

B. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-182, is ON. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[36] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-11, in NORMAL. _____

[37] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is CLEAR. _____

B. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-182, is OFF. _____

[38] **PLACE** LS/941A, AUTO Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28, in TRIP. _____

[39] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

B. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-183, is ON. _____

[40] **PLACE** LS/941A, AUTO Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28, in NORMAL. _____

[41] **VERIFY** the following:

A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is CLEAR. _____

B. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-183, is OFF. _____

[42] **PLACE** the following bistables in TRIP:

A. LS / 920A Auto Recirc Low Interlock (RWST Level Ch1), at 2-R-4. _____

B. LS / 921A Auto Recirc Low Interlock (RWST Level Ch2), at 2-R-8. _____

[43] **VERIFY** 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

- [44] **PLACE** LS/913A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-3, in TRIP. _____
- [45] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
 - B. Trip Status Light 15 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-50A, is ON. _____
- [46] **VERIFY** the following:
- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
 - B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____
- [47] **PLACE** LS/913A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-3, in NORMAL. _____
- [48] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
 - B. Trip Status Light 15 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-50A, is OFF. _____
- [49] **PLACE** LS/914A, Auto Recirc Low Interlock (RWST Level Ch2) bistable, at 2-R-7, in TRIP. _____
- [50] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
 - B. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-51A, is ON. _____
- [51] **VERIFY** the following:
- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
 - B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

- [52] **PLACE** LS/914A, Auto Recirc Low Interlock (RWST Level Ch2) bistable, at 2-R-7, in NORMAL. _____
- [53] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
 - B. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-51A, is OFF. _____
- [54] **PLACE** LS/915A, Auto Recirc Low Interlock (RWST Level Ch3) bistable, at 2-R-9, in TRIP. _____
- [55] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
 - B. Trip Status Light 55 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-52A, is ON. _____
- [56] **VERIFY** the following:
- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
 - B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____
- [57] **PLACE** LS/915A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-9, in NORMAL. _____
- [58] **VERIFY** the following:
- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
 - B. Trip Status Light 55 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-52A, is OFF. _____
- [59] **PLACE** LS/916A, Auto Recirc Low Interlock (RWST Level Ch4) bistable, at 2-R-28, in TRIP. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[60] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-53A, is ON. _____

[61] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[62] **PLACE** LS/916A, Auto Recirc Low Interlock (RWST Level Ch4) bistable, at 2-R-28, in NORMAL. _____

[63] **VERIFY** the following:

- A. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL LO LS-63-53A, is OFF. _____

[64] **PLACE** the following bistables in TRIP:

- A. LS/913A, Auto Recirc Low Interlock (RWST Level Ch1), at 2-R-3. _____
- B. LS/914A, Auto Recirc Low Interlock (RWST Level Ch2), at 2-R-7. _____

[65] **VERIFY** 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK, is in ALARM. _____

[66] **VERIFY** the following ACTUATED contact condition for Slave Relay 2-R-RLY-99-K648, at 2-R-48:

- A. 2-RLY-99-K648 contact points 1, 2 CLOSED. (**Acc-Crit**) _____
- B. 2-RLY-99-K648, contact points 3, 4 CLOSED. (**Acc-Crit**) _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[67] **VERIFY** the following ACTUATED contact condition for Slave Relay 2-RLY-99-K648, at 2-R-51:

A. 2-RLY-99-K648 contact points 1, 2 CLOSED. (**Acc-Crit**) _____

B. 2-RLY-99-K648 contact points 3, 4 CLOSED. (**Acc-Crit**) _____

[68] **PLACE** LS/914A, Auto Recirc Low Interlock) RWST Level Ch2), at 2-R-7, bistable in NORMAL. _____

[69] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K648, at 2-R-48:

A. 2-RLY-99-K648 Contact Points 1, 2 OPEN. _____

B. 2-RLY-99-K648 Contact Points 3, 4 OPEN. _____

[70] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K648, at 2-R-51:

A. 2-RLY-99-K648 Contact Points 1, 2 OPEN. _____

B. 2-RLY-99-K648 Contact Points 3, 4 OPEN. _____

[71] **PLACE** LS/915A, Auto Recirc Low Interlock (RWST Level Ch3), bistable, at 2-R-9, in TRIP. _____

[72] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. (**Acc-Crit**) _____

[73] **PLACE** LS/915A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-9 in NORMAL. _____

[74] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. (**Acc-Crit**) _____

[75] **PLACE** LS/916A Auto Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28 in TRIP. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[76] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. (**Acc-Crit**) _____

[77] **PLACE** LS/913A, Auto Recirc Low Interlock (RWST Level Ch1) bistable, at 2-R-3 in NORMAL. _____

[78] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[79] **PLACE** LS/914A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-7 in TRIP. _____

[80] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. (**Acc-Crit**) _____

[81] **PLACE** LS/914A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-7 in NORMAL. _____

[82] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[83] **PLACE** LS/915A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-9 in TRIP. _____

[84] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. (**Acc-Crit**) _____

[85] **PLACE** LS/916A, Auto Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28 in NORMAL. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[86] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[87] **PLACE** LS/914A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-7 in TRIP. _____

[88] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. (**Acc-Crit**) _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. (**Acc-Crit**) _____

[89] **PLACE** the following bistables in NORMAL:

A. LS/915A, Auto Recirc High Interlock (CNTMT Sump Level Ch3). _____

B. LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1). _____

C. LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch1). _____

[90] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

C. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

NOTE

Step 6.12[91] commences logic testing for Containment Sump Level High. There is one RWST Low Level bistable (LS/914A) in trip. The remaining steps complete logic testing for RWST Level.

[91] **PLACE** the following bistables in TRIP:

A. LS/913A, Auto Recirc Low Interlock (RWST Level Ch1), at 2-R-3. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

- B. LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1), at 2-R-4. _____

[92] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK, is in ALARM. _____

- B. Trip Status Light 8 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-180, is ON. _____

[93] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

- B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[94] **PLACE** LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1) bistable, at 2-R-4, in NORMAL. _____

[95] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is CLEAR. _____

- B. Trip Status Light 8 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-180, is OFF. _____

[96] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-8, in TRIP. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[97] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-181, is ON. _____

[98] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[99] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2) bistable, at 2-R-8, in NORMAL. _____

[100] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-181, is OFF. _____

[101] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-11, in TRIP. _____

[102] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-182, is ON. _____

[103] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[104] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3) bistable, at 2-R-11, in NORMAL. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[105] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-182, is OFF. _____

[106] **PLACE** LS/941A, Auto Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28, in TRIP. _____

[107] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is in ALARM. _____
- B. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-183, is ON. _____

[108] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, remains RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, remains RESET. _____

[109] **PLACE** LS/941A, Auto Recirc High Interlock (CNTMT Sump Level Ch4) bistable, at 2-R-28, in NORMAL. _____

[110] **VERIFY** the following:

- A. 2-XA-55-6C-127E, CNTMT SUMP LEVEL HI RECIRC INTLK, is CLEAR. _____
- B. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP LEVEL HI LS-63-183, is OFF. _____

[111] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in NORMAL. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[112] **POSITION** the following bisables to TRIP:

A. LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1) at 2-R-4. _____

B. LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8. _____

[113] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[114] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8, bistable in NORMAL. _____

[115] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[116] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3), at 2-R-11, bistable in TRIP. _____

[117] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[118] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3), at 2-R-11, bistable in NORMAL. _____

[119] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[120] **PLACE** LS/941A, Auto Recirc High Interlock (CNTMT Sump Level Ch4), at 2-R-28, bistable in TRIP. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[121] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[122] **PLACE** LS/920A, Auto Recirc High Interlock (CNTMT Sump Level Ch1), at 2-R-4, bistable in NORMAL. _____

[123] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[124] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8, bistable in TRIP. _____

[125] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[126] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8, bistable in NORMAL. _____

[127] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is RESET. _____

B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[128] **PLACE** LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3), at 2-R-11, bistable in TRIP. _____

[129] **VERIFY** the following:

A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____

B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[130] **PLACE** LS/941A, Auto Recirc High Interlock (CNTMT Sump Level Ch4), at 2-R-28, bistable in NORMAL. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[131] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, is RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, is RESET. _____

[132] **PLACE** LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8, bistable in TRIP. _____

[133] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, is ACTUATED. **(Acc Crit)** _____
- B. 2-RLY-99-K648, at 2-R-51, is ACTUATED. **(Acc Crit)** _____

[134] **POSITION** the following bisables to NORMAL:

- A. LS/913A, Auto Recirc Low Interlock (RWST Level Ch1), at 2-R-3. _____
- B. LS/914A, Auto Recirc Low Interlock (RWST Level Ch2), at 2-R-7. _____
- C. LS/921A, Auto Recirc High Interlock (CNTMT Sump Level Ch2), at 2-R-8. _____
- D. LS/940A, Auto Recirc High Interlock (CNTMT Sump Level Ch3), at 2-R-11. _____

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6.12 RWST Lo-Lo/Containment Sump High Switch-Over (continued)

[135] **VERIFY** the following:

- A. 2-RLY-99-K648, at 2-R-48, is RESET. _____
- B. 2-RLY-99-K648, at 2-R-51, is RESET. _____
- C. 2-XA-55-6C-126C, RWST LEVEL LO RECIRC INTLK,
is CLEAR. _____
- D. 2-XA-55-6C-127E, CNTMT LEVEL HI RECIRC INTLK,
is CLEAR. _____
- E. Trip Status Light 15 (2-XX-55-6A, 2-M-6) RWST LEVEL
LO LS-63-50A, is OFF. _____
- F. Trip Status Light 35 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-51A is OFF. _____
- G. Trip Status Light 55 (2-XX-55-6A, 2-M-6) RWST LEVEL
LO LS-63-52A, is OFF. _____
- H. Trip Status Light 75 (2-XX-55-6A, 2-M-6), RWST LEVEL
LO LS-63-53A, is OFF. _____
- I. Trip Status Light 8 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-180, is OFF. _____
- J. Trip Status Light 28 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-181, is OFF. _____
- K. Trip Status Light 48 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-182, is OFF. _____
- L. Trip Status Light 68 (2-XX-55-6A, 2-M-6), CNTMT SUMP
LEVEL HI LS-63-183, is OFF. _____

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow

- [1] **VERIFY** prerequisites listed in section 4.0 for subsection 6.13 have been completed. _____
- [2] **ENSURE** the following bistables in NORMAL:
- A. FS/998A, Cntmt Sp Pmp Tr-A Lo Interlock, at 2-R-9. _____
 - B. FS/998B, Cntmt Sp Pmp Tr-A Hi Interlock, at 2-R-9. _____
 - C. FS/999A, Cntmt Sp Pmp Tr-B Lo Interlock, at 2-R-28. _____
 - D. FS/999B, Cntmt Sp Pmp Tr-B Hi Interlock, at 2-R-28. _____
- [3] **LIFT** the field leads at the following locations:
- A. Panel 2-R-11, Terminal Block 11C, Terminal Point 11C4
(+) _____
_____ CV
 - B. Panel 2-R-28, Terminal Block 28C, Terminal Point 28C7
(+) _____
_____ CV
- [4] **INSTALL** 4-20ma current source (to simulate Containment Spray Pump flow) at the following locations:
- A. Panel 2-R-11, Terminal Block 11C, Terminal Points 11C4
(+) and 11C5 (-) _____
_____ CV
 - B. Panel 2-R-28, Terminal Block 28C, Terminal Points 28C7
(+) and 28C8 (-) _____
_____ CV

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow (continued)

- [5] **ADJUST** the 4-20ma current source outputs until the test panel trip lights go out (to simulate a NON TRIP condition) for the following:

- A. FB-998A, Cntmt Sp Pmp Tr-A Lo Interlock, at 2-R-9. _____
- B. FB-998B, Cntmt Sp Pmp Tr-A Hi Interlock, at 2-R-9. _____
- C. FB-999A, Cntmt Sp Pmp Tr-B Lo Interlock, at 2-R-28. _____
- D. FB-999B, Cntmt Sp Pmp Tr-B Hi Interlock, at 2-R-28. _____

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation.

- [6] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K638, at 2-R-48:

- A. TB655 points 1,2 OPEN. _____
- B. TB655 points 3,4 OPEN. _____
- C. TB655 points 5, 6 OPEN. _____
- D. TB655 points 7,8 OPEN. _____

- [7] **VERIFY** the following ACTUATED contact condition for Slave Relay 2-RLY-99-K639, at 2-R-48:

- A. TB655 points 9,10 OPEN. _____
- B. TB655 points 11,12 CLOSED. _____
- C. TB651 points 9,10 CLOSED. _____
- D. TB651 points 11,12 CLOSED. _____

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow (continued)

- [8] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K638, at 2-R-51:
- A. TB655 points 1,2 OPEN. _____
 - B. TB655 points 3,4 OPEN. _____
 - C. TB655 points 5,6 OPEN. _____
 - D. TB655 points 7,8 OPEN. _____
- [9] **VERIFY** the following ACTUATED contact condition for Slave Relay 2-RLY-99-K639, at 2-R-51:
- A. TB655 points 9,10 OPEN. _____
 - B. TB655 points 11,12 CLOSED. _____
 - C. TB651 points 9,10 CLOSED. _____
 - D. TB651 points 11,12 CLOSED. _____
- [10] **PLACE** FS/998A, Cntmt Sp Pmp Tr-A Lo Interlock, bistable, at 2-R-9, to TRIP. _____
- [11] **VERIFY** an ACTUATED contact condition for Slave Relay 2-RLY-99-K638, at 2-R-48:
- A. TB655 points 1,2 CLOSED. **(Acc Crit)** _____
 - B. TB655 points 3,4 CLOSED. **(Acc Crit)** _____
 - C. TB655 points 5,6 CLOSED. **(Acc Crit)** _____
 - D. TB655 points 7,8 CLOSED. **(Acc Crit)** _____
- [12] **VERIFY** Slave Relay 2-RLY-99-K638, at 2-R-51, remains RESET. _____
- [13] **PLACE** FS/998A, Cntmt Sp Pmp Tr-A Lo Interlock, bistable, at 2-R-9, to NORMAL. _____

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow (continued)

- [14] **VERIFY** the following RESET contact condition for Slave Relay 2-RLY-99-K638, at 2-R-48:
- A. TB655 points 1,2 OPEN. _____
 - B. TB655 points 3,4 OPEN. _____
 - C. TB655 points 5,6 OPEN. _____
 - D. TB655 points 7,8 OPEN. _____
- [15] **PLACE** FS/998B, Cntmt Sp Pmp Tr-A Hi Interlock, bistable, at 2-R-9, to TRIP. _____
- [16] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K639, at 2-R-48:
- A. TB655 points 9,10 CLOSED. **(Acc Crit)** _____
 - B. TB655 points 11,12 OPEN. **(Acc Crit)** _____
 - C. TB651 points 9,10 OPEN. **(Acc Crit)** _____
 - D. TB651 points 11,12 OPEN. **(Acc Crit)** _____
- [17] **VERIFY** Slave Relay 2-RLY-99-K639, at 2-R-51, remains ACTUATED. _____
- [18] **PLACE** FS/998B, Cntmt Sp Pmp Tr-A Hi Interlock, bistable, at 2-R-9, to NORMAL. _____
- [19] **VERIFY** an ACTUATED contact condition for Slave Relay 2-RLY-99-K639, at 2-R-48:
- A. TB655 points 9,10 OPEN. _____
 - B. TB655 points 11,12 CLOSED. _____
 - C. TB651 points 9,10 CLOSED. _____
 - D. TB651 points 11,12 CLOSED. _____
- [20] **POSITION** FS/999A, Cntmt Sp Pmp Tr-B Lo Interlock, bistable at 2-R-28 to TRIP. _____

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow (continued)

[21] **VERIFY** an ACTUATED contact condition for Slave Relay 2-RLY-99-K638, at 2-R-51:

A. TB655 points 1,2 CLOSED. **(Acc Crit)** _____

B. TB655 points 3,4 CLOSED. **(Acc Crit)** _____

C. TB655 points 5,6 CLOSED. **(Acc Crit)** _____

D. TB655 points 7,8 CLOSED. **(Acc Crit)** _____

[22] **VERIFY** Slave Relay 2-RLY-99-K638, at 2-R-48, remains RESET. _____

[23] **POSITION** FS/999A, Cntmt Sp Pmp Tr-B Lo Interlock, bistable, at 2-R-28, to NORMAL. _____

[24] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K638, at 2-R-51:

A. TB655 points 1,2 OPEN. _____

B. TB655 points 3,4 OPEN. _____

C. TB655 points 5,6 OPEN. _____

D. TB655 points 7,8 OPEN. _____

[25] **POSITION** FS/999B, Cntmt Sp Pmp Tr-B Hi Interlock, bistable, at 2-R-28, to TRIP. _____

[26] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K639, at 2-R-51:

A. TB655 points 9,10 CLOSED. **(Acc Crit)** _____

B. TB655 points 11,12 OPEN. **(Acc Crit)** _____

C. TB651 points 9,10 OPEN. **(Acc Crit)** _____

D. TB651 points 11,12 OPEN. **(Acc Crit)** _____

[27] **VERIFY** Slave Relay 2-RLY-99-K639, at 2-R-48, remains ACTUATED. _____

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6.13 Containment Spray Hi/Hi-Hi Flow and Mini-Flow (continued)

[28] **POSITION** FS/999B, Cntmt Sp Pmp Tr-B Hi Interlock, bistable, at 2-R-28, to NORMAL. _____

[29] **VERIFY** the following ACTUATED contact condition for Slave Relay 2-RLY-99-K639, at 2-R-51:

A. TB655 points 9,10 OPEN. _____

B. TB655 points 11,12 CLOSED. _____

C. TB651 points 9,10 CLOSED. _____

D. TB651 points 11,12 CLOSED. _____

[30] **REMOVE** the 4-20ma current sources from the following:

A. Panel 2-R-11, Terminal Block 11C, Terminal Points 11C4(+) and 11C5(-). _____

CV

B. Panel 2-R-28, Terminal Block 28C, Terminal Points 28C7(+) and 28C8(-). _____

CV

[31] **LAND** the field leads at the following locations:

A. Panel 2-R-11, Terminal Block 11C, Terminal Point 11C4(+). _____

CV

B. Panel 2-R-28, Terminal Block 28C, Terminal Point 28C7(+). _____

CV

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6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.14 have been completed. _____

[2] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at 2-R-47, in A + B. _____

[3] **ENSURE** the following bistables in NORMAL:

A. LS/519A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch2, at 2-R-5. _____

B. LS/529A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch2, at 2-R-5. _____

C. LS/539A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch2, at 2-R-5. _____

D. LS/549A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch2, at 2-R-5. _____

E. LS/518A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____

F. LS/528A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____

G. LS/538A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____

H. LS/548A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____

I. LS/51A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch4, at 2-R-12. _____

J. LS/527A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch4, at 2-R-12. _____

K. LS/537A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch4, at 2-R-12. _____

L. LS/547A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch4, at 2-R-12. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[4] **VERIFY** the following:

- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- C. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____
- D. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____
- E. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____
- F. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____
- G. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____
- H. 2-XA-55-4C-74D, SG4 LEVEL HI-HI, is CLEAR. _____
- I. Trip Status Light 44 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-38A, is OFF. _____
- J. Trip Status Light 68 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-39A, is OFF. _____
- K. Trip Status Light 92 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-42A, is OFF. _____
- L. Trip Status Light 45 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-51A, is OFF. _____
- M. Trip Status Light 69 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-52A, is OFF. _____
- N. Trip Status Light 93 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-55A, is OFF. _____
- O. Trip Status Light 46 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-93A, is OFF. _____
- P. Trip Status Light 70 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-94A, is OFF. _____
- Q. Trip Status Light 94 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-97A, is OFF. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

- R. Trip Status Light 47 (2-XX-55-6B, 2-M-6), SG4 LEVEL HI-HI LS-3-106A, is OFF. _____
- S. Trip Status Light 71 (2-XX-55-6B, 2-M-6), SG4 LEVEL HI-HI LS-3-107A, is OFF. _____
- T. Trip Status Light 95 (2-XX-55-6B, 2-M-6), SG4 LEVEL HI-HI LS-3-110A, is OFF. _____
- U. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is OFF. _____
- V. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____
- [5] **CLOSE** the Switched Jumpers (P-4 Test Switch), to simulate Reactor TRIPPED, in the following locations:
 - A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____
 - B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____
- [6] **VERIFY** a pre-test contact condition per Table 12. _____
- [7] **PLACE** LS/519A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____
- [8] **VERIFY** the following:
 - A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is in ALARM. _____
 - B. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____
 - C. Trip Status Light 44 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-38A, is ON. _____
 - D. 2-RLY-99-K620, at 2-R-48, remains RESET. _____
 - E. 2-RLY-99-K649, at 2-R-48, remains RESET. _____
 - F. 2-RLY-99-K620, at 2-R-51, remains RESET. _____
 - G. 2-RLY-99-K649, at 2-R-51, remains RESET. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

- [9] **PLACE** LS/519A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in NORMAL. _____
- [10] **VERIFY** the following:
- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 44 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-38A, is OFF. _____
- [11] **PLACE** LS/529A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____
- [12] **VERIFY** the following:
- A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____
- C. Trip Status Light 45 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-51A, is ON. _____
- D. 2-RLY-99-K620, at 2-R-48, remains RESET. _____
- E. 2-RLY-99-K649, at 2-R-48, remains RESET. _____
- F. 2-RLY-99-K620, at 2-R-51, remains RESET. _____
- G. 2-RLY-99-K649, at 2-R-51, remains RESET. _____
- [13] **PLACE** LS/529A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in NORMAL. _____
- [14] **VERIFY** the following:
- A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 45 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-51A, is OFF. _____
- [15] **PLACE** LS/539A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[16] **VERIFY** the following:

- A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____
- C. Trip Status Light 46 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-93A, is ON. _____
- D. 2-RLY-99-K620, at 2-R-48, remains RESET. _____
- E. 2-RLY-99-K649, at 2-R-48, remains RESET. _____
- F. 2-RLY-99-K620, at 2-R-51, remains RESET. _____
- G. 2-RLY-99-K649, at 2-R-51, remains RESET. _____

[17] **PLACE** LS/539A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in NORMAL. _____

[18] **VERIFY** the following:

- A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 46 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-93A, is OFF. _____

[19] **PLACE** LS/549A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[20] **VERIFY** the following:

- A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-74D, SG4 LEVEL HI-HI, is CLEAR. _____
- C. Trip Status Light 47 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-106A, is ON. _____
- D. 2-RLY-99-K620, at 2-R-48, remains RESET. _____
- E. 2-RLY-99-K649, at 2-R-48, remains RESET. _____
- F. 2-RLY-99-K620, at 2-R-51, remains RESET. _____
- G. 2-RLY-99-K649, at 2-R-51, remains RESET. _____

[21] **PLACE** LS/549A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in NORMAL. _____

[22] **VERIFY** the following:

- A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 47 (2-XX-55-6B, 2-M-6), SG4 LEVEL HI-HI LS-3-106A, is OFF. _____

[23] **PLACE** LS/518A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, in TRIP. _____

[24] **VERIFY** the following:

- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, remains CLEAR. _____
- C. Trip Status Light 68 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-39A, is ON. _____

[25] **PLACE** LS/518A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[26] **VERIFY** the following:

- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 68 (2-XX-55-6B, 2-M-6), SG1 LEVEL HI-HI LS-3-39A, is OFF. _____

[27] **PLACE** LS/528A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in TRIP. _____

[28] **VERIFY** the following:

- A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, remains CLEAR. _____
- C. Trip Status Light 69 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-52A, is ON. _____

[29] **PLACE** LS/528A, Sg2 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-11, in NORMAL. _____

[30] **VERIFY** the following:

- A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- B. Trip Status Light 69 (2-XX-55-6B, 2-M-6), SG2 LEVEL HI-HI LS-3-52A, is OFF. _____

[31] **PLACE** LS/538A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in TRIP. _____

[32] **VERIFY** the following:

- A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, remains CLEAR. _____
- C. Trip Status Light 70 (2-XX-55-6B, 2-M-6), SG3 LEVEL HI-HI LS-3-94A, is ON. _____

[33] **PLACE** LS/538A, Sg3 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[34] **VERIFY** the following:

A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 70 (2-XX-55-6B, 2-M-6), SG 3 LEVEL
HI-HI LS-3-94A, is OFF. _____

[35] **PLACE** LS/548A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch3
bistable, at 2-R-11, in TRIP. _____

[36] **VERIFY** the following:

A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is in ALARM. _____

B. 2-XA-55-4C-74D, SG4 LEVEL HI-HI, remains CLEAR. _____

C. Trip Status Light 71 (2-XX-55-6B, 2-M-6), SG4 LEVEL
HI-HI LS-3-107A, is ON. _____

[37] **PLACE** LS/548A, Sg4 Hi Hi Level Turb Trip & Fw Isol Ch3
bistable, at 2-R-11, in NORMAL. _____

[38] **VERIFY** the following:

A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 71 (2-XX-55-6B, 2-M-6), SG4 LEVEL HI-
HI LS-3-107A, is OFF. _____

[39] **PLACE** LS/517A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in TRIP. _____

[40] **VERIFY** the following:

A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is in ALARM. _____

B. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, remains CLEAR. _____

C. Trip Status Light 92 (2-XX-55-6B, 2-M-6), SG1 LEVEL
HI-HI LS-3-42A, is ON. _____

[41] **PLACE** LS/517A, Sg1 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[42] **VERIFY** the following:

A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 92 (2-XX-55-6B, 2-M-6), SG 1 LEVEL
HI-HI LS-3-42A, is OFF. _____

[43] **PLACE** LS/527A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in TRIP. _____

[44] **VERIFY** the following:

A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is in ALARM. _____

B. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, remains CLEAR. _____

C. Trip Status Light 93 (2-XX-55-6B, 2-M-6), SG2 LEVEL
HI-HI LS-3-55A, is ON. _____

[45] **PLACE** LS/527A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch3
bistable, at 2-R-12, in NORMAL. _____

[46] **VERIFY** the following:

A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 93 (2-XX-55-6B, 2-M-6), SG 2 LEVEL
HI-HI LS-3-55A, is OFF. _____

[47] **PLACE** LS/537A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in TRIP. _____

[48] **VERIFY** the following:

A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is in ALARM. _____

B. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, remains CLEAR. _____

C. Trip Status Light 94 (2-XX-55-6B, 2-M-6), SG 3 LEVEL
HI-HI LS-3-97A, is ON. _____

[49] **PLACE** LS/537A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[50] **VERIFY** the following:

A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 94 (2-XX-55-6B, 2-M-6), SG 3 LEVEL
HI-HI LS-3-97A, is OFF. _____

[51] **PLACE** LS/547A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in TRIP. _____

[52] **VERIFY** the following:

A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is in ALARM. _____

B. 2-XA-55-4C-74D, SG4 LEVEL HI-HI, remains CLEAR. _____

C. Trip Status Light 95 (2-XX-55-6B, 2-M-6), SG4 LEVEL
HI-HI LS-3-110A, is ON. _____

[53] **PLACE** LS/547A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch4
bistable, at 2-R-12, in NORMAL. _____

[54] **VERIFY** the following:

A. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____

B. Trip Status Light 95 (2-XX-55-6B, 2-M-6), SG4 LEVEL
HI-HI LS-3-110A, is OFF. _____

[55] **PLACE** the Train A SSPS MULTIPLEXER TEST SWITCH, at
2-R-47, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[56] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K610 _____
- C. 2-RLY-99-K636 _____
- D. 2-RLY-99-K637 _____

[57] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K610 _____
- C. 2-RLY-99-K636 _____
- D. 2-RLY-99-K637 _____

[58] **POSITION** the following bisables to TRIP:

- A. LS/517A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch4,
at 2-R-12. _____
- B. LS/518A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch3,
at 2-R-11. _____

[59] **VERIFY** 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is in ALARM. _____

[60] **VERIFY** an ACTUATED contact condition per Table 12.
(Acc Crit) _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[61] **VERIFY** the following Slave Relays remain RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K610 _____
- C. 2-RLY-99-K636 _____
- D. 2-RLY-99-K637 _____

[62] **VERIFY** the following Slave Relays remain RESET, at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K610 _____
- C. 2-RLY-99-K636 _____
- D. 2-RLY-99-K637 _____

[63] **VERIFY** the following:

- A. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____
- B. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[64] **PLACE** LS/518A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch3
bistable, at 2-R-11 in NORMAL. _____

[65] **VERIFY** 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____

[66] **VERIFY** the following Slave Relays remain ACTUATED, at
2-R-48:

- A. 2-RLY-99-K620 **(Acc Crit)** _____
- B. 2-RLY-99-K621 **(Acc Crit)** _____
- C. 2-RLY-99-K649 **(Acc Crit)** _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[67] **VERIFY** the following Slave Relays remain ACTUATED,
at 2-R-51:

A. 2-RLY-99-K620 (Acc Crit) _____

B. 2-RLY-99-K621 (Acc Crit) _____

C. 2-RLY-99-K649 (Acc Crit) _____

[68] **VERIFY** the following:

A. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is ON. _____

B. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is ON. _____

[69] **TOGGLE (OPEN then CLOSE)** the following Switched
Jumpers (P-4 Test Switches):

A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____

B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[70] **VERIFY** a RESET contact condition per Table 12.
(Acc Crit) _____

[71] **VERIFY** the following:

A. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW,
is OFF. _____

B. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW,
is OFF. _____

[72] **PLACE** LS/519A, SG 1 Hi Ni Level Turb Trip & Fw Isol Ch2
bistable, at 2-R-5, in TRIP. _____

[73] **VERIFY** 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is in ALARM. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[74] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48 **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48 **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48 **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51 **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51 **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51 **(Acc Crit)** _____

[75] **PLACE** LS/517A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch4 bistable, at 2-R-12, in NORMAL. _____

[76] **VERIFY** 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____

[77] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[78] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[79] **PLACE** LS/518A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in TRIP. _____

[80] **VERIFY** 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is in ALARM. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[81] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[82] **POSITION** the following bistables to NORMAL:

- A. LS/519A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch2,
at 2-R-5. _____
- B. LS/518A, SG 1 Hi Hi Level Turb Trip & Fw Isol Ch3,
at 2-R-11. _____

[83] **VERIFY** the following:

- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____

[84] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[85] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[86] **POSITION** the following bistables to TRIP:

- A. LS/527A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch4,
at 2-R-12. _____
- B. LS/528A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch3,
at 2-R-11. _____

[87] **VERIFY** 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is ALARM. _____

[88] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[89] **PLACE** LS/528A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch3
bistable, at 2-R-11, in NORMAL. _____

[90] **VERIFY** 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[91] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____

B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[92] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K620, at 2-R-48. _____

B. 2-RLY-99-K621, at 2-R-48. _____

C. 2-RLY-99-K649, at 2-R-48. _____

D. 2-RLY-99-K620, at 2-R-51. _____

E. 2-RLY-99-K621, at 2-R-51. _____

F. 2-RLY-99-K649, at 2-R-51. _____

[93] **PLACE** LS/529A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____

[94] **VERIFY** 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is in ALARM. _____

[95] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____

C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____

D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____

E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____

F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[96] **PLACE** LS/527A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch4 bistable, at 2-R-12, in NORMAL. _____

[97] **VERIFY** 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[98] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____

B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[99] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K620, at 2-R-48. _____

B. 2-RLY-99-K621, at 2-R-48. _____

C. 2-RLY-99-K649, at 2-R-48. _____

D. 2-RLY-99-K620, at 2-R-51. _____

E. 2-RLY-99-K621, at 2-R-51. _____

F. 2-RLY-99-K649, at 2-R-51. _____

[100] **PLACE** LS/528A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in TRIP. _____

[101] **VERIFY** 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is in ALARM. _____

[102] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____

C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____

D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____

E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____

F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[103] **POSITION** the following bistables to NORMAL:

- A. **PLACE** LS/528A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____
- B. **PLACE** LS/529A, SG 2 Hi Hi Level Turb Trip & Fw Isol Ch2, at 2-R-5. _____

[104] **VERIFY** the following:

- A. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____

[105] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[106] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[107] **POSITION** the following bistables to TRIP:

- A. LS/537A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch4, at 2-R-12. _____
- B. LS/538A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch3, at 2-R-11. _____

[108] **VERIFY** 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is in ALARM. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[109] **VERIFY** the following Slave Relays, are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[110] **PLACE** LS/538A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in NORMAL. _____

[111] **VERIFY** 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____

[112] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[113] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[114] **PLACE** LS/539A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch2 bistable, at 2-R-5, in TRIP. _____

[115] **VERIFY** 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is in ALARM. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[116] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[117] **PLACE** LS/537A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch4 bistable, at 2-R-12, in NORMAL. _____

[118] **VERIFY** 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____

[119] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[120] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[121] **PLACE** LS/538A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch3 bistable, at 2-R-11, in TRIP. _____

[122] **VERIFY** 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is in ALARM. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[123] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[124] **POSITION** the following bistables to NORMAL:

- A. LS/538A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch3,
at 2-R-11. _____
- B. LS/539A, SG 3 Hi Hi Level Turb Trip & Fw Isol Ch2,
at 2-R-5. _____

[125] **VERIFY** the following:

- A. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____

[126] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[127] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

[128] **POSITION** the following bistables to TRIP:

- A. LS/547A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch4,
at 2-R-12. _____
- B. LS/548A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch3,
at 2-R-11. _____

[129] **VERIFY** the following:

- A. 2-XA-55-6B-119B, SG 4 LEVEL HI-HI, is in ALARM. _____
- B. 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is in ALARM. _____

[130] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____
- D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____
- E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____
- F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

[131] **PLACE** LS/548A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 3
bistable, at 2-R-11, in NORMAL _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[132] **VERIFY** 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is CLEAR. _____

[133] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____

B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[134] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K620, at 2-R-48. _____

B. 2-RLY-99-K621, at 2-R-48. _____

C. 2-RLY-99-K649, at 2-R-48. _____

D. 2-RLY-99-K620, at 2-R-51. _____

E. 2-RLY-99-K621, at 2-R-51. _____

F. 2-RLY-99-K649, at 2-R-51. _____

[135] **PLACE** LS/549A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 2 bistable, at 2-R-5, in TRIP. _____

[136] **VERIFY** 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is in ALARM. _____

[137] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____

C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____

D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____

E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____

F. 2-RLY-99-K649, at 2-R-51 **(Acc Crit)** _____

[138] **PLACE** LS/547A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 4 bistable, at 2-R-12, in NORMAL. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[139] **VERIFY** 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is CLEAR. _____

[140] **TOGGLE (OPEN then CLOSE)** the following Switched Jumpers (P-4 Test Switches):

A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____

B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[141] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K620, at 2-R-48. _____

B. 2-RLY-99-K621, at 2-R-48. _____

C. 2-RLY-99-K649, at 2-R-48. _____

D. 2-RLY-99-K620, at 2-R-51. _____

E. 2-RLY-99-K621, at 2-R-51. _____

F. 2-RLY-99-K649, at 2-R-51. _____

[142] **PLACE** LS/548A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 3 bistable, at 2-R-11, in TRIP. _____

[143] **VERIFY** 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is in ALARM. _____

[144] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K620, at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K621, at 2-R-48. **(Acc Crit)** _____

C. 2-RLY-99-K649, at 2-R-48. **(Acc Crit)** _____

D. 2-RLY-99-K620, at 2-R-51. **(Acc Crit)** _____

E. 2-RLY-99-K621, at 2-R-51. **(Acc Crit)** _____

F. 2-RLY-99-K649, at 2-R-51. **(Acc Crit)** _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[145] **POSITION** the following bistables to NORMAL:

- A. LS/548A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 3,
at 2-R-11. _____
- B. LS/549A, SG 4 Hi Hi Level Turb Trip & Fw Isol Ch 2,
at 2-R-5. _____

[146] **VERIFY** the following:

- A. 2-XA-55-6B-119B, SG 4 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-4C-74D, SG 4 LEVEL HI-HI, is CLEAR. _____

[147] **TOGGLE (OPEN then CLOSE)** the following Switched
Jumpers (P-4 Test Switches):

- A. TB506 across Terminal Points 4 and 5 in 2-R-47. _____
- B. TB506 across Terminal Points 4 and 5 in 2-R-50. _____

[148] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620, at 2-R-48. _____
- B. 2-RLY-99-K621, at 2-R-48. _____
- C. 2-RLY-99-K649, at 2-R-48. _____
- D. 2-RLY-99-K620, at 2-R-51. _____
- E. 2-RLY-99-K621, at 2-R-51. _____
- F. 2-RLY-99-K649, at 2-R-51. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

[149] **VERIFY** the following:

- A. 2-XA-55-6B-116B, SG 1 LEVEL HI-HI, is CLEAR. _____
- B. 2-XA-55-6B-117B, SG 2 LEVEL HI-HI, is CLEAR. _____
- C. 2-XA-55-6B-118B, SG 3 LEVEL HI-HI, is CLEAR. _____
- D. 2-XA-55-6B-119B, SG4 LEVEL HI-HI, is CLEAR. _____
- E. 2-XA-55-4C-71D, SG 1 LEVEL HI-HI, is CLEAR. _____
- F. 2-XA-55-4C-72D, SG 2 LEVEL HI-HI, is CLEAR. _____
- G. 2-XA-55-4C-73D, SG 3 LEVEL HI-HI, is CLEAR. _____
- H. 2-XA-55-4C-74D, SG4 LEVEL HI-HI, is CLEAR. _____
- I. Trip Status Light 44 (2-XX-55-6B, 2-M-6), SG1 LEVEL
HI-HI LS-3-38A, is OFF _____
- J. Trip Status Light 68 (2-XX-55-6B, 2-M-6), SG1 LEVEL
HI-HI LS-3-39A, is OFF. _____
- K. Trip Status Light 92 (2-XX-55-6B, 2-M-6), SG1 LEVEL
HI-HI LS-3-42A, is OFF. _____
- L. Trip Status Light 45 (2-XX-55-6B, 2-M-6), SG2 LEVEL
HI-HI LS-3-51A, is OFF. _____
- M. Trip Status Light 69 (2-XX-55-6B, 2-M-6), SG2 LEVEL
HI-HI LS-3-52A, is OFF. _____
- N. Trip Status Light 93 (2-XX-55-6B, 2-M-6), SG2 LEVEL
HI-HI LS-3-55A, is OFF. _____
- O. Trip Status Light 46 (2-XX-55-6B, 2-M-6), SG3 LEVEL
HI-HI LS-3-93A, is OFF. _____
- P. Trip Status Light 70 (2-XX-55-6B, 2-M-6), SG3 LEVEL
HI-HI LS-3-94A, is OFF. _____
- Q. Trip Status Light 94 (2-XX-55-6B, 2-M-6), SG3 LEVEL
HI-HI LS-3-97A, is OFF. _____

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**6.14 Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation
(continued)**

R. Trip Status Light 47 (2-XX-55-6B, 2-M-6) SG4 LEVEL
HI-HI LS-3-106A, is OFF. _____

S. Trip Status Light 71 (2-XX-55-6B, 2-M-6), SG4 LEVEL
HI-HI LS-3-107A, is OFF. _____

T. Trip Status Light 95 (2-XX-55-6B, 2-M-6), SG4 LEVEL
HI-HI LS-3-110A, is OFF. _____

U. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is
OFF. _____

V. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is
OFF. _____

[150] **OPEN** the Switched Jumpers (P-4 Test Switch), to simulate
Reactor NOT TRIPPED, in the following locations:

A. Panel 2-R-47, Terminal Block TB506 across Terminal
Points 4 and 5. _____

B. Panel 2-R-50, Terminal Block TB506 across Terminal
Points 4 and 5. _____

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6.15 Residual Heat Removal Valve Interlock

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.15 have been completed. _____
- [2] **ENSURE** the following bistables are in NORMAL:
- A. PS/406A, RCS WR PR LP 1 OPEN PERM, at 2-R-2. _____
- B. PS/406B, RCS WR PR LP 1 HI PRESS, at 2-R-2. _____
- [3] **LIFT** the field wire from Terminal Block 115 Terminal Point 9 in Panel 2-R-54. _____
- _____ CV
- [4] **LIFT** the field wire from Terminal Block 112 Terminal Point 1 in Panel 2-R-54. _____
- _____ CV
- [5] **LIFT** the field wire from Terminal Block 121 Terminal Point 1 in Panel 2-R-54. _____
- _____ CV

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation.

- [6] **VERIFY** a CLOSED contact state across Terminal Block 115 Terminal Points 9 and 10 in Panel 2-R-54. _____
- [7] **VERIFY** a CLOSED contact state across Terminal Block 121 Points 1 and 2 in Panel 2-R-54. _____
- [8] **VERIFY** an OPEN contact state across Terminal Block 112 Points 1 and 2 in Panel 2-R-54. _____

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6.15 Residual Heat Removal Valve Interlock (continued)

- [9] **PLACE** PS/406A, RCS WR PR LP 1 OPEN PERM,
in BYPASS, at 2-R-2. _____
- [10] **VERIFY** an OPEN contact state across Terminal Block 115
Terminal Points 9 and 10 in Panel 2-R-54. **(Acc Crit)** _____
- [11] **VERIFY** an OPEN contact state across Terminal Block 121
Terminal Points 1 and 2 in Panel 2-R-54. **(Acc Crit)** _____
- [12] **PLACE** PS/406B, RCS WR PR LP 1 HI PRESS bistable, in
TRIP. _____
- [13] **VERIFY** a CLOSED contact state across Terminal Block 112
Terminal Points 1 and 2 in Panel 2-R-54. _____
- [14] **PLACE** PS/406A, RCS WR PR LP 1 OPEN PERM,
in NORMAL. _____
- [15] **PLACE** PS/406B, RCS WR PR LP 3 HI PRESS bistable,
in NORMAL. _____
- [16] **VERIFY** a CLOSED contact state across Terminal Block 115
Terminal Points 9 and 10 in Panel 2-R-54. _____
- [17] **VERIFY** a CLOSED contact state across Terminal Block 121
Terminal Points 1 and 2 in Panel 2-R-54. _____
- [18] **VERIFY** an OPEN contact state across Terminal Block 112
Terminal Points 1 and 2 in Panel 2-R-54. _____

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6.15 Residual Heat Removal Valve Interlock (continued)

- [19] **LAND** the field wire from Terminal Block 115 Terminal Point 9 in Panel 2-R-54.

CV

- [20] **LAND** the field wire from Terminal Block 121 Terminal Point 1 in Panel 2-R-54.

CV

- [21] **LAND** the field wire from Terminal Block 112 Terminal Point 1 in Panel 2-R-54.

CV

- [22] **ENSURE** the following bistables are in NORMAL:

A. PS/407A, RCS WR PR LP 1 OPEN PERM at 2-R-6.

B. PS/407B, RCS WR PR LP 1 HI PRESS, at 2-R-6.

- [23] **LIFT** the field wire (for 2-FCV-74-2-B) from Terminal Block 208 Terminal Point 1 in Panel 2-R-55.

CV

- [24] **LIFT** the field wire (for 2-FCV-74-9-B) from Terminal Block 219 Terminal Point 1 in Panel 2-R-55.

CV

- [25] **LIFT** the field wire (for RHR Isol Valve Open & Sys Pressure High annunciator) from Terminal Block 214 Terminal Point 10 in Panel 2-R-55.

CV

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6.15 Residual Heat Removal Valve Interlock (continued)

- [26] **VERIFY** a CLOSED contact state across Terminal Block 208
Terminal Points 1 and 2 in Panel 2-R-55. _____
- [27] **VERIFY** a CLOSED contact state across Terminal Block 219
Points 1 and 2 in Panel 2-R-55. _____
- [28] **VERIFY** an OPEN contact state across Terminal Block 214
Points 10 and 11 in Panel 2-R-55. _____
- [29] **PLACE** PS/407A, RCS WR PR LP 1 OPEN PERM,
in BYPASS. _____
- [30] **VERIFY** an OPEN contact state across Terminal Block 208
Terminal Points 1 and 2 in Panel 2-R-55. **(Acc Crit)** _____
- [31] **VERIFY** an OPEN contact state across Terminal Block 219
Terminal Points 1 and 2 in Panel 2-R-55. **(Acc Crit)** _____
- [32] **PLACE** PS/407B, RCS WR PR LP 1 HI PRESS bistable,
in TRIP. _____
- [33] **VERIFY** a CLOSED contact state across Terminal Block 214
Terminal Points 10 and 11 in Panel 2-R-55. _____
- [34] **PLACE** PS/407A, RCS WR PR LP 1 OPEN PERM,
in NORMAL. _____
- [35] **PLACE** PS/407B, RCS WR PR LP 1 HI PRESS bistable,
in NORMAL. _____
- [36] **VERIFY** a CLOSED contact state across Terminal Block 208
Terminal Points 1 and 2 in Panel 2-R-55. _____
- [37] **VERIFY** a CLOSED contact state across Terminal Block 219
Terminal Points 1 and 2 in Panel 2-R-55. _____
- [38] **VERIFY** a OPEN contact state across Terminal Block 214
Terminal Points 10 and 11 in Panel 2-R-55. _____

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6.15 Residual Heat Removal Valve Interlock (continued)

- [39] **LAND** the field wire from Terminal Block 208 Terminal Point 1
in Panel 2-R-55.

CV
- [40] **LAND** the field wire from Terminal Block 219 Terminal Point 1
in Panel 2-R-55.

CV
- [41] **LAND** the field wire from Terminal Block 214 Terminal Point 10
in Panel 2-R-55.

CV

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6.16 Main Steam Valve Vault Room High Level Logic

- [1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.16 have been completed. _____
- [2] **ENSURE** the following fuses at 2-JB-290-8257-D, CB EL 708, C8Q, are installed:
- A. 2-FU-290-8257/1-D _____
 - B. 2-FU-290-8257/2-D _____
 - C. 2-FU-290-8257/3-D _____
 - D. 2-FU-290-8257/4-D _____
 - E. 2-FU-290-8257/5-D _____
 - F. 2-FU-290-8257/6-D _____
 - G. 2-FU-290-8257/7-D _____
 - H. 2-FU-290-8257/8-D. _____
- [3] **ENSURE** the following fuses at 2-JB-290-8260-F, CB EL 708, C8Q, are installed:
- A. 2-FU-290-8260/1-F _____
 - B. 2-FU-290-8260/2-F _____
 - C. 2-FU-290-8260/3-F _____
 - D. 2-FU-290-8260/4-F _____
 - E. 2-FU-290-8260/5-F _____
 - F. 2-FU-290-8260/6-F _____
 - G. 2-FU-290-8260/7-F _____
 - H. 2-FU-290-8260/8-F _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[4] **ENSURE** the following fuses at 2-JB-290-8259-G, CB EL 708, C8Q are installed:

A. 2-FU-290-8259/1-G _____

B. 2-FU-290-8259/2-G _____

C. 2-FU-290-8259/3-G _____

D. 2-FU-290-8259/4-G _____

E. 2-FU-290-8259/5-G _____

F. 2-FU-290-8259/6-G _____

G. 2-FU-290-8259/7-G _____

H. 2-FU-290-8259/8-G _____

[5] **ENSURE** the following, MAIN STEAM VALVE VAULT FLOOD LEVEL, Test Switches, in NORMAL:

A. 2-HS-3-402-D at 2-JB-290-8257-D. _____

B. 2-HS-3-405-D at 2-JB-290-8257-D. _____

C. 2-HS-3-403-F at 2-JB-290-8260-F. _____

D. 2-HS-3-406-F at 2-JB-290-8260-F. _____

E. 2-HS-3-404-G at 2-JB-290-8259-G. _____

F. 2-HS-3-407-G at 2-JB-290-8259-G. _____

[6] **VERIFY** the following:

A. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

B. 2-XA-55-4A-66D, PROTECTION SET I BYPASS, is in ALARM. _____

C. 2-XA-55-4A-68D, PROTECTION SET III BYPASS, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- D. 2-XA-55-4A-69D, PROTECTION SET IV BYPASS,
is in ALARM. _____
 - E. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____
 - F. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE
VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____
 - G. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____
 - H. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE
VAULT ROOM LEVEL HI LS-3-406-F, is OFF. _____
 - I. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____
 - J. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE
VAULT ROOM LEVEL HI LS-3-407-G, is OFF. _____
- [7] **ENSURE** the Switched Jumpers (P-4 Test Switch) are OPEN
to simulate Reactor NOT TRIPPED, in the following locations:
- A. Panel 2-R-47, Terminal Block TB506 across Terminal
points 4 and 5. _____
 - B. Panel 2-R-50, Terminal Block TB506 across Terminal
points 4 and 5. _____
- [8] **VERIFY** the following Slave Relays are RESET:
- A. 2-RLY-99-K620 in 2-R-48. _____
 - B. 2-RLY-99-K649 in 2-R-48. _____
 - C. 2-RLY-99-K620 in 2-R-51. _____
 - D. 2-RLY-99-K649 in 2-R-51. _____
- [9] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D,
at 2-JB-290-8257-D, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[10] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
- B. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[11] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[12] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D, in NORMAL. _____

[13] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor indicates for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
- B. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[14] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, at 2-JB-290-8260-F, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[15] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
- B. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[16] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[17] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in NORMAL. _____

[18] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
- B. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[19] **PLACE** 2-HS-3-404-G, TEST SWITCH for 2-LS-3-404-G, at 2-JB-290-8259-G, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[20] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
- B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[21] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[22] **PLACE** 2-HS-3-404-G, TEST SWITCH for 2-LS-3-404-G, in NORMAL. _____

[23] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
- B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[24] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-402-D float device, to simulate a South Valve Vault Room High Level. _____

[25] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
- B. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is ON. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is in ALARM. _____

[26] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[27] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D,
in BYPASS. _____

[28] **VERIFY** the following:

- A. 2-XA-55-4A-66D, PROTECTION SET I BYPASS,
REFLASHES. _____
- B. Annunciator Cabinet Display Monitor for 57C, SOUTH
MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
- C. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is CLEAR. _____

[29] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D,
in NORMAL. _____

[30] **VERIFY** the following:

- A. 2-XA-55-4A-66D, PROTECTION SET I BYPASS,
is in ALARM. _____
- B. Annunciator Cabinet Display Monitor for 57C, SOUTH
MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
- C. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-402-D, is ON. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- [31] **RELEASE** Level Switch 2-LS-3-402-D float device. _____
- [32] **VERIFY** the following:
- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
 - B. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in CLEAR. _____
- [33] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-403-F float device, to simulate a South Valve Vault Room High Level. _____
- [34] **VERIFY** the following:
- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____
 - B. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is ON. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [35] **VERIFY** the following Slave Relays remain RESET:
- A. 2-RLY-99-K620 in 2-R-48. _____
 - B. 2-RLY-99-K649 in 2-R-48. _____
 - C. 2-RLY-99-K620 in 2-R-51. _____
 - D. 2-RLY-99-K649 in 2-R-51. _____
- [36] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in BYPASS. _____
- [37] **VERIFY** the following:
- A. 2-XA-55-4A-68D, PROTECTION SET III BYPASS, REFLASHES. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- B. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
- C. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____
- [38] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in NORMAL. _____
- [39] **VERIFY** the following:
 - A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404) is in ALARM. _____
 - B. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is ON. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [40] **RELEASE** Level Switch 2-LS-3-403-F float device. _____
- [41] **VERIFY** the following:
 - A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
 - B. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____
- [42] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-404-G float device, to simulate a South Valve Vault Room High Level. _____
- [43] **VERIFY** the following:
 - A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [44] **VERIFY** the following Slave Relays remain RESET:
 - A. 2-RLY-99-K620 in 2-R-48. _____
 - B. 2-RLY-99-K649 in 2-R-48. _____
 - C. 2-RLY-99-K620 in 2-R-51. _____
 - D. 2-RLY-99-K649 in 2-R-51. _____
- [45] **PLACE** 2-HS-3-404-G, TEST SWITCH for 2-LS-3-404-G, in BYPASS. _____
- [46] **VERIFY** the following:
 - A. 2-XA-55-4A-69D, PROTECTION SET IV BYPASS, REFLASHES. _____
 - B. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
 - C. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____
 - D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____
- [47] **PLACE** 2-HS-3-404-G, TEST SWITCH for 2-LS-3-404-G, in NORMAL. _____
- [48] **VERIFY** the following:
 - A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404) is in ALARM. _____
 - B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is ON. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- [49] **RELEASE** Level Switch 2-LS-3-404-G float device. _____
- [50] **VERIFY** the following:
- A. Annunciator Cabinet Display Monitor for 57C, SOUTH MSVR LEVEL HI (LS-3-402,403,404), returns to normal. _____
 - B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____
 - C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____
- [51] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D, in TRIP. _____
- [52] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in TRIP. _____
- [53] **VERIFY** the following: **(Acc Crit)**
- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, is in ALARM. _____
 - B. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-402-D, is ON. _____
 - C. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is ON. _____
 - D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [54] **VERIFY** the following Slave Relays are ACTUATED:
- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
 - B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
 - C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
 - D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____
- [55] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in NORMAL. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[56] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, returns to NORMAL. _____
- B. Trip Status Light 60 (2-XX-55-6B, 2-M-6B), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[57] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[58] **PLACE** 2-HS-3-404-G, TEST SWITCH FOR 2-LS-3-404-G, in TRIP. _____

[59] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, is in ALARM. **(Acc Crit)** _____
- B. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[60] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[61] **PLACE** 2-HS-3-402-D, TEST SWITCH for 2-LS-3-402-D,
in NORMAL. _____

[62] **VERIFY** the following:

A. Annunciator Cabinet Display Monitor for 57C,
FEEDWATER ISOL MS VALVE VAULT LEVEL HI,
returns to NORMAL. _____

B. Trip Status Light 12 (2-XX-55-6B, 2-M-6B), SOUTH
VALVE VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____

C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is CLEAR. _____

[63] **VERIFY** the following Slave Relays are RESET:

A. 2-RLY-99-K620 in 2-R-48. _____

B. 2-RLY-99-K649 in 2-R-48. _____

C. 2-RLY-99-K620 in 2-R-51. _____

D. 2-RLY-99-K649 in 2-R-51. _____

[64] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F,
in TRIP. _____

[65] **VERIFY** the following:

A. Annunciator Cabinet Display Monitor for 57C,
FEEDWATER ISOL MS VALVE VAULT LEVEL HI,
is in ALARM. **(Acc Crit)** _____

B. Trip Status Light 60 (2-XX-55-6B, 2-M-6B), SOUTH
VALVE VAULT ROOM LEVEL HI LS-3-403-F, is ON. _____

C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[66] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

[67] **PLACE** 2-HS-3-403-F, TEST SWITCH for 2-LS-3-403-F, in NORMAL. _____

[68] **PLACE** 2-HS-3-404-G, TEST SWITCH for 2-LS-3-404-G, in NORMAL. _____

[69] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 60 (2-XX-55-6B, 2-M-6B), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____
- C. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____

[70] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[71] **PLACE** 2-HS-3-405-D, TEST SWITCH FOR 2-LS-3-405-D, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[72] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RX LEVEL HI/MFW ISOLATION, is in ALARM. _____

[73] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[74] **PLACE** 2-HS-3-405-D, TEST SWITCH FOR 2-LS-3-405-D, in NORMAL. _____

[75] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[76] **PLACE** 2-HS-3-406-F, TEST SWITCH FOR 2-LS-3-406-F, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[77] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-406F, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[78] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[79] **PLACE** 2-HS-3-406-F, TEST SWITCH FOR 2-LS-3-406-F, in NORMAL. _____

[80] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[81] **PLACE** 2-HS-3-407-G, TEST SWITCH FOR 2-LS-3-407-G, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[82] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 85 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[83] **VERIFY** the following Slave Relays are RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[84] **PLACE** 2-HS-3-407-G, TEST SWITCH FOR 2-LS-3-407-G, in NORMAL. _____

[85] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 85 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[86] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-405-D float device, to simulate a North Valve Vault Room High Level. _____

[87] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[88] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[89] **PLACE** 2-HS-3-405-D, TEST SWITCH for 2-LS-3-405-D, in BYPASS. _____

[90] **VERIFY** the following:

- A. 2-XA-55-4A-66D, PROTECTION SET I BYPASS ALARM REFLASHES. _____
- B. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- C. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[91] **PLACE** 2-HS-3-405-D, TEST SWITCH for 2-LS-3-405-D, in NORMAL. _____

[92] **VERIFY** the following:

- A. 2-XA-55-4A-66D, PROTECTION SET I BYPASS, is in ALARM. _____
- B. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- C. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [93] **RELEASE** Level Switch 2-LS-3-405-D float device. _____
- [94] **VERIFY** the following:
- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____
- [95] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-406-F float device, to simulate a North Valve Vault Room High Level. _____
- [96] **VERIFY** the following:
- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____
- [97] **VERIFY** the following Slave Relays remain RESET:
- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____
- [98] **PLACE** 2-HS-3-406-F, TEST SWITCH for 2-LS-3-406-F, in BYPASS. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[99] **VERIFY** the following:

- A. 2-XA-55-4A-68D, PROTECTION SET III BYPASS, ALARM REFLASHES. _____
- B. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- C. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[100] **PLACE** 2-HS-3-406-F, TEST SWITCH for 2-LS-3-406-F, in NORMAL. _____

[101] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[102] **RELEASE** Level Switch 2-LS-3-406-F float device. _____

[103] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[104] **MANUALLY LIFT** and **HOLD** Level Switch 2-LS-3-407-G float device, to simulate a North Valve Vault Room High Level. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[105] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 85 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[106] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[107] **PLACE** 2-HS-3-407-G, TEST SWITCH for 2-LS-3-407-G, in BYPASS. _____

[108] **VERIFY** the following:

- A. 2-XA-55-4A-69D, PROTECTION SET IV BYPASS, ALARM REFLASHES. _____
- B. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- C. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[109] **PLACE** 2-HS-3-407-G, TEST SWITCH for 2-LS-3-407-G, in NORMAL. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[110] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), is in ALARM. _____
- B. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[111] **RELEASE** Level Switch 2-LS-3-407-G float device. _____

[112] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, NORTH MSVR LEVEL HI (LS-3-405,406,407), returns to NORMAL. _____
- B. Trip Status Light 85 (2-XX-55-6B, 2-M-6) NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is OFF. _____
- C. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is CLEAR. _____

[113] **PLACE** 2-HS-3-405-D, TEST SWITCH FOR 2-LS-3-405-D, in TRIP. _____

[114] **PLACE** 2-HS-3-406-F, TEST SWITCH FOR 2-LS-3-406-F, in TRIP _____

[115] **VERIFY** the following: **(Acc Crit)**

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, is in ALARM. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____
- C. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is ON. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[116] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

[117] **PLACE** 2-HS-3-406-F, TEST SWITCH for 2-LS-3-406-F, in NORMAL. _____

[118] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, returns to normal. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____
- C. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is OFF. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[119] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[120] **PLACE** 2-HS-3-407-G, TEST SWITCH FOR 2-LS-3-407-G, in TRIP. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[121] **VERIFY** the following: **(Acc-Crit)**

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, is in ALARM. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is ON. _____
- C. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[122] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

[123] **PLACE** 2-HS-3-405-D, TEST SWITCH for 2-LS-3-405-D, in NORMAL. _____

[124] **VERIFY** the following:

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, returns to NORMAL. _____
- B. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____
- C. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[125] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[126] **PLACE** 2-HS-3-406-F, TEST SWITCH for 2-LS-3-406-F, in TRIP. _____

[127] **VERIFY** the following: **(Acc-Crit)**

- A. Annunciator Cabinet Display Monitor for 57C, FEEDWATER ISOL MS VALVE VAULT LEVEL HI, is in ALARM. _____
- B. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-406-F, is ON. _____
- C. Trip Status Light 85 (2-XX-55-6B, 2-M-6), NORTH VALVE VAULT ROOM LEVEL HI LS-3-407-G, is ON. _____
- D. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM LEVEL HI/MFW ISOLATION, is in ALARM. _____

[128] **VERIFY** the following Slave Relays are ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

[129] **CLOSE** the Switched Jumpers (P-4 Test Switch), to simulate Reactor TRIPPED, in the following locations:

- A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____
- B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

[130] **VERIFY** the following Slave Relays remain ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____
- D. 2-RLY-99-K649 in 2-R-51. _____

[131] **PLACE** 2-HS-3-406-F, TEST SWITCH for 2-LS-3-406-F, in NORMAL. _____

[132] **PLACE** 2-HS-3-407-G, TEST SWITCH for 2-LS-3-407-G, in NORMAL. _____

[133] **VERIFY** the following Slave Relays remain ACTUATED:

- A. 2-RLY-99-K620 in 2-R-48. **(Acc Crit)** _____
- B. 2-RLY-99-K649 in 2-R-48. **(Acc Crit)** _____
- C. 2-RLY-99-K620 in 2-R-51. **(Acc Crit)** _____
- D. 2-RLY-99-K649 in 2-R-51. **(Acc Crit)** _____

[134] **OPEN** the Switched Jumpers (P-4 Test Switch) to simulate Reactor NOT TRIPPED, in the following locations:

- A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____
- B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____

[135] **VERIFY** Annunciator Cabinet Display Monitor for 57C FEEDWATER ISOL MS VALVE VAULT LEVEL HI, returns to normal. _____

[136] **VERIFY** the following Slave Relays remain RESET:

- A. 2-RLY-99-K620 in 2-R-48. _____
- B. 2-RLY-99-K649 in 2-R-48. _____
- C. 2-RLY-99-K620 in 2-R-51. _____

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6.16 Main Steam Valve Vault Room High Level Logic (continued)

D. 2-RLY-99-K649 in 2-R-51. _____

[137] **VERIFY** the following:

A. 2-XA-55-3C-57C, NORTH/SOUTH VALVE VAULT RM
LEVEL HI/MFW ISOLATION, is CLEAR. _____

B. 2-XA-55-4A-66D, PROTECTION SET I BYPASS,
is in ALARM. _____

C. 2-XA-55-4A-68D, PROTECTION SET III BYPASS,
is in ALARM. _____

D. 2-XA-55-4A-69D, PROTECTION SET IV BYPASS,
is in ALARM. _____

E. Trip Status Light 12 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-402-D, is OFF. _____

F. Trip Status Light 13 (2-XX-55-6B, 2-M-6), NORTH VALVE
VAULT ROOM LEVEL HI LS-3-405-D, is OFF. _____

G. Trip Status Light 60 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-403-F, is OFF. _____

H. Trip Status Light 61 (2-XX-55-6B, 2-M-6), NORTH VALVE
VAULT ROOM LEVEL HI LS-3-406F, is OFF _____

I. Trip Status Light 84 (2-XX-55-6B, 2-M-6), SOUTH VALVE
VAULT ROOM LEVEL HI LS-3-404-G, is OFF. _____

J. Trip Status Light 85 (2-XX-55-6B, 2-M-6) NORTH VALVE
VAULT ROOM LEVEL HI LS-3-407-G, is OFF. _____

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6.17 Manual Safety Injection Train B

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.17 have been completed. _____

[2] **VERIFY** the following:

A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____

B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____

C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____

D. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____

E. 2-XA-55-4A-70B, AUTO SI BLOCKED, BLOCKED, is CLEAR. _____

F. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____

G. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____

H. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____

I. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____

J. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____

K. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI; is OFF. _____

L. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6) MFW, is OFF. _____

M. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6) ØA, is OFF. _____

N. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6) CVI, is OFF. _____

O. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is OFF. _____

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6.17 Manual Safety Injection Train B (continued)

- P. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, NOT TR. _____
- Q. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, NOT TR. _____
- R. White RESET Light on Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, is OFF. _____
- S. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is OFF. _____
- [3] **PLACE** MEMORIES FUNCTION SELECTORS Switch, at 2-R-50, in Position 9. _____
- [4] **PRESS** and **RELEASE** the Black Lower MEMORY FUNCTION TEST Pushbutton, at 2-R-50. _____
- [5] **VERIFY** the Memory Set Lamp is NOT LIT. _____
- [6] **PLACE** S521 TIMER TEST SWITCH, at 2-R-50, in Position 2. _____
- [7] **VERIFY** the UV Coil Meter (M501), at 2-R-50, indicates 26 to 48 VDC. _____
- [8] **PLACE** S521 TIMER TEST SWITCH, at 2-R-50, in Position 3. _____
- [9] **VERIFY** 0VDC (≤ 5 VDC) on the UV Coil Meter (M501), at 2-R-50. _____
- [10] **PLACE** S605 TIMER TEST SWITCH, at 2-R-51, in Position 2. _____
- [11] **VERIFY** Timer Test Lamp is LIT. _____
- [12] **PLACE** S605 TIMER TEST SWITCH, at 2-R-51, in Position 3 _____
- [13] **VERIFY** Timer Test Lamp is NOT LIT. _____
- [14] **PRESS** and **HOLD** Pushbutton 2-HS-63-134B, SI RESET TR-B, at 2-M-6. _____
- [15] **VERIFY** Timer Test Lamp, at 2-R-51, is LIT. _____

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6.17 Manual Safety Injection Train B (continued)

[16] **RELEASE** Pushbutton 2-HS-63-134B, SI RESET TR-B,
at 2-M-6. _____

[17] **VERIFY** Timer Test Lamp, at 2-R-51, is NOT LIT. _____

NOTES

- 1) A stopwatch will be used in the next steps to verify Safety Injection reset time from actuation of the handswitches until the UV Coil Meter indicates 26 to 48VDC.
- 2) Communications will be required for start of reset time between Auxiliary Instrument Room and Main Control Room.
- 3) Steps 6.17[18] and 6.17[19] must be performed in less than or equal to 60 seconds.

[18] **SIMULTANEOUSLY PERFORM** the following:

A. **ROTATE** Handswitch 2-HS-63-133B, SI ACTUATE TR-A
& B, at 2-M-4, to ACTUATE. _____

B. **START** the stopwatch. _____

[19] **PRESS** Pushbutton 2-HS-63-134B, SI RESET TR-B, at 2-M-6,
and **VERIFY** 2-XA-55-4A-70A, SI ACTUATED, remains in
ALARM. **(Acc Crit)** _____

[20] **STOP** the stopwatch when 26 to 48 VDC is indicated on the
UV Coil Meter (M501), at 2-R-50, and **RECORD** the elapsed
time. _____

Time _____ seconds

M&TE _____ Cal Due Date _____

[21] **VERIFY** the Safety Injection reset time delay is 90 ±10
seconds. **(Acc Crit)** _____

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6.17 Manual Safety Injection Train B (continued)

[22] **PRESS** the following Pushbuttons at 2-M-6:

- A. 2-HS-63-134A, SI RESET TR-A. _____
- B. 2-HS-63-134B, SI RESET TR-B. _____
- C. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
- D. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____
- E. 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A. _____
- F. 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B. _____

[23] **VERIFY** the following:

- A. Memory Set Lamp, at 2-R-50, is LIT. _____
- B. Timer Test Lamp, at 2-R-51, is NOT LIT. _____
- C. 2-RLY-99-K602, at 2-R-51, is RESET. _____
- D. UV Coil Meter, at 2-R-50, indicates 0 VDC (≤ 5 VDC). _____

[24] **PLACE** Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, in RESET. _____

[25] **PLACE** Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73, at 2-M-6, in RESET. _____

[26] **VERIFY** the following:

- A. 2-RLY-99-K647, at 2-R-48, is RESET. _____
- B. 2-RLY-99-K647, at 2-R-51, is RESET. _____

[27] **PLACE** S521 TIMER TEST Switch, at 2-R-50, in Position 2 and **VERIFY** the UV Coil Meter, at 2-R-50, indicates 26 to 48 VDC. _____

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6.17 Manual Safety Injection Train B (continued)

[28] **PLACE** the following switches in the indicated positions:

- A. MEMORIES FUNCTION SELECTOR, at 2-R-50, in OFF. _____
- B. S521 TIMER TEST, at 2-R-50, in NORMAL (1). _____
- C. S605 TIMER TEST, at 2-R-51, in OFF (1). _____

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[29] **VERIFY** a pre-test contact condition per Table 13. _____

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6.17 Manual Safety Injection Train B (continued)

[30] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K621 _____
- Q. 2-RLY-99-K622 _____
- R. 2-RLY-99-K630 _____
- S. 2-RLY-99-K647 _____

[31] **ROTATE** Handswitch 2-HS-63-133B, SI ACTUATE TR A & B,
AT 2-M-4, to ACTUATE. _____

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[32] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is in ALARM. _____
- B. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- C. 2-XA-55-4D-76G, SI MANUAL, is in ALARM. _____
- D. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), \emptyset A, is ON. _____
- E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is ON. _____
- F. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW, is ON. _____
- G. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6), \emptyset A, is ON. _____
- H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is ON. _____
- I. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is ON. _____
- J. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, TRIP. _____
- K. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, NOT TR. _____
- L. White RESET Light on Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-75, at 2-M-6, is ON. _____
- M. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is ON. _____

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6.17 Manual Safety Injection Train B (continued)

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[33] **VERIFY** an ACTUATED contact condition per Table 13.
(Acc Crit)

[34] **VERIFY** the following Slave Relays are ACTUATED, at
2-R-48:

A. 2-RLY-99-K601 (Acc Crit)

B. 2-RLY-99-K602 (Acc Crit)

C. 2-RLY-99-K603 (Acc Crit)

D. 2-RLY-99-K604 (Acc Crit)

E. 2-RLY-99-K605 (Acc Crit)

F. 2-RLY-99-K606 (Acc Crit)

G. 2-RLY-99-K607 (Acc Crit)

H. 2-RLY-99-K608 (Acc Crit)

I. 2-RLY-99-K609 (Acc Crit)

J. 2-RLY-99-K610 (Acc Crit)

K. 2-RLY-99-K611 (Acc Crit)

L. 2-RLY-99-K612 (Acc Crit)

M. 2-RLY-99-K613 (Acc Crit)

N. 2-RLY-99-K614 (Acc Crit)

O. 2-RLY-99-K615 (Acc Crit)

P. 2-RLY-99-K621 (Acc Crit)

Q. 2-RLY-99-K622 (Acc Crit)

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6.17 Manual Safety Injection Train B (continued)

- R. 2-RLY-99-K630 (Acc Crit) _____
- S. 2-RLY-99-K647 (Acc Crit) _____

NOTE

Step 6.17[31] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

- [35] **PRESS** Pushbutton 2-HS-63-134A, SI RESET TR-A, at Panel 2-M-6. _____
- [36] **VERIFY** MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6), MFW is OFF. _____
- [37] **VERIFY** the following Slave Relays are RESET, at 2-R-48:
- A. 2-RLY-99-K601 _____
 - B. 2-RLY-99-K602 _____
 - C. 2-RLY-99-K603 _____
 - D. 2-RLY-99-K604 _____
 - E. 2-RLY-99-K608 _____
 - F. 2-RLY-99-K609 _____
 - G. 2-RLY-99-K610 _____
 - H. 2-RLY-99-K611 _____
 - I. 2-RLY-99-K621 _____
- [38] **ROTATE** Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-72, at 2-M-6, to RESET. _____
- [39] **VERIFY** 2-RLY-99-K647 is RESET, at 2-R-48. _____
- [40] **VERIFY** the white RESET light on Handswitch 2-HS-63-72D is OFF. _____

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6.17 Manual Safety Injection Train B (continued)

- [41] **PRESS** Pushbutton 2-HS-30-63D, ØA CNTMT ISOL RESET TR-A, at 2-M-6. _____
- [42] **VERIFY** MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- [43] **VERIFY** the following Slave Relays are RESET, at 2-R-48:
- A. 2-RLY-99-K605 _____
 - B. 2-RLY-99-K606 _____
 - C. 2-RLY-99-K607 _____
 - D. 2-RLY-99-K612 _____
 - E. 2-RLY-99-K613 _____
 - F. 2-RLY-99-K614 _____
 - G. 2-RLY-99-K630 _____
- [44] **PRESS** Pushbutton 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A, at 2-M-6. _____
- [45] **VERIFY** MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6) CVI, is OFF. _____
- [46] **VERIFY** the following Slave Relays are RESET, at 2-R-48:
- A. 2-RLY-99-K615 _____
 - B. 2-RLY-99-K622 _____

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6.17 Manual Safety Injection Train B (continued)

[47] **VERIFY** the following Slave Relays remain ACTUATED,
at 2-R-51:

- A. 2-RLY-99-K601 _____
- B. 2-RLY-99-K602 _____
- C. 2-RLY-99-K603 _____
- D. 2-RLY-99-K604 _____
- E. 2-RLY-99-K605 _____
- F. 2-RLY-99-K606 _____
- G. 2-RLY-99-K607 _____
- H. 2-RLY-99-K608 _____
- I. 2-RLY-99-K609 _____
- J. 2-RLY-99-K610 _____
- K. 2-RLY-99-K611 _____
- L. 2-RLY-99-K612 _____
- M. 2-RLY-99-K613 _____
- N. 2-RLY-99-K614 _____
- O. 2-RLY-99-K615 _____
- P. 2-RLY-99-K621 _____
- Q. 2-RLY-99-K622 _____
- R. 2-RLY-99-K630 _____
- S. 2-RLY-99-K647 _____

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6.17 Manual Safety Injection Train B (continued)

- [48] **PRESS** Pushbutton 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B, at 2-M-6. _____
- [49] **VERIFY** MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6) CVI, is OFF. _____
- [50] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K615 _____
 - B. 2-RLY-99-K622 _____
- [51] **PRESS** Pushbutton 2-HS-30-63E, ØA CNTMT ISOL RESET TR-B, at 2-M-6. _____
- [52] **VERIFY** MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6) ØA, is OFF. _____
- [53] **VERIFY** the following Slave Relays are RESET, at 2-R-51:
- A. 2-RLY-99-K605 _____
 - B. 2-RLY-99-K606 _____
 - C. 2-RLY-99-K607 _____
 - D. 2-RLY-99-K612 _____
 - E. 2-RLY-99-K613 _____
 - F. 2-RLY-99-K614 _____
 - G. 2-RLY-99-K630 _____

NOTE

Step 6.17[31] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

- [54] **PRESS** Pushbutton 2-HS-63-134B, SI RESET TR-B, at 2-M-6. _____

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6.17 Manual Safety Injection Train B (continued)

[55] **VERIFY** the following:

- A. 2-XA-55-4A-70A, SI ACTUATED, is CLEAR. _____
- B. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- C. 2-XA-55-4A-70B, AUTO SI BLOCKED, is CLEAR. _____
- D. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6), MFW, is OFF. _____
- E. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, NOT TR. _____
- F. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, NOT TR. _____

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

- [56] **VERIFY** a RESET contact condition per Table 13.
(Acc Crit) _____
- [57] **ROTATE** Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, to RESET. _____
- [58] **VERIFY** the white RESET light on Handswitch 2-HS-63-73D, is OFF. _____
- [59] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K647 at 2-R-51:
 - A. TB631 points 9,10 OPEN. _____
 - B. TB631 points 11,12 OPEN. _____

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6.17 Manual Safety Injection Train B (continued)

[60] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K601 at 2-R-51:

A. TB630 points 9,10 CLOSED. _____

B. TB631 points 5,6 CLOSED. _____

C. TB631 points 7,8 CLOSED. _____

D. TB648 points 1,2 CLOSED. _____

E. TB648 points 3,4 CLOSED. _____

F. TB649 points 1,2 CLOSED. _____

G. TB649 points 3,4 CLOSED. _____

[61] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K610, at 2-R-51.

A. TB621 points 9,10 CLOSED. _____

B. TB622 points 11,12 CLOSED. _____

C. TB622 points 1,2 CLOSED. _____

D. TB622 points 5,6 OPEN. _____

E. TB622 points 7,8 OPEN. _____

F. TB622 points 9,10 CLOSED. _____

[62] **VERIFY** a RESET contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-51:

A. TB631 points 1,2 OPEN. _____

B. TB631 points 3,4 OPEN. _____

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6.17 Manual Safety Injection Train B (continued)

[63] **MANUALLY ACTUATE** and **HOLD** Slave Relay
2-RLY-99-K648, at 2-R-51. _____

[63.1] **VERIFY** the RESET contact condition for Slave Relays
2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-51,
has NOT changed:

A. TB631 points 1,2 OPEN. _____

B. TB631 points 3,4 OPEN. _____

[63.2] **RELEASE** Slave Relay 2-RLY-99-K648, at 2-R-51. _____

[64] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K601
at 2-R-51. _____

[65] **VERIFY** an ACTUATED contact condition for Slave Relay
2-RLY-99-K601 at 2-R-51:

A. TB630 points 9,10 OPEN. _____

B. TB631 points 5,6 OPEN. _____

C. TB631 points 7,8 OPEN. _____

D. TB648 points 1,2 OPEN. _____

E. TB648 points 3,4 OPEN. _____

F. TB649 points 1,2 OPEN. _____

G. TB649 points 3,4 OPEN. _____

[66] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K610
at 2-R-51. _____

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6.17 Manual Safety Injection Train B (continued)

[67] **VERIFY** an ACTUATED contact condition for Slave Relay 2-RLY-99-K610, at 2-R-51:

- A. TB621 points 9,10 OPEN. _____
- B. TB621 points 11,12 OPEN. _____
- C. TB622 points 1,2 OPEN. _____
- D. TB622 points 5,6 CLOSED. _____
- E. TB622 points 7,8 CLOSED. _____
- F. TB622 points 9,10 OPEN. _____

[68] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K647, at 2-R-51. _____

[69] **VERIFY** the RESET contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-51, has NOT changed:

- A. TB631 points 1,2 OPEN. _____
- B. TB631 points 3,4 OPEN. _____

[70] **MANUALLY ACTUATE** and **HOLD** Slave Relay 2-RLY-99-K648, at 2-R-51. _____

[70.1] **VERIFY** an ACTUATED contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-51:

- A. TB631 points 1,2 CLOSED. _____
- B. TB631 points 3,4 CLOSED. _____

[70.2] **RELEASE** Slave Relay 2-RLY-99-K648 at 2-R-51. _____

[71] **MANUALLY ACTUATE** Slave Relay 2-RLY-99-K602, at 2-R-51. _____

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NOTE

Step 6.17[31] starts a timed sequence. Due to a time delay, wait at least 120 seconds before performing the next step.

[72] **PRESS** the following Pushbuttons at 2-M-6:

A. 2-HS-63-134A, SI RESET TR-A. _____

B. 2-HS-63-134B, SI RESET TR-B. _____

[73] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K601 at 2-R-51:

A. TB630 points 9,10 CLOSED. _____

B. TB631 points 5,6 CLOSED. _____

C. TB631 points 7,8 CLOSED. _____

D. TB648 points 1,2 CLOSED. _____

E. TB648 points 3,4 CLOSED. _____

F. TB649 points 1,2 CLOSED. _____

G. TB649 points 3,4 CLOSED. _____

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[74] **VERIFY** a RESET contact condition for Slave Relay 2-RLY-99-K610, at 2-R-51.

A. TB621 points 9,10 CLOSED. _____

B. TB621 points 11,12 CLOSED. _____

C. TB622 points 1,2 CLOSED. _____

D. TB622 points 5,6 OPEN. _____

E. TB622 points 7,8 OPEN. _____

F. TB622 points 9,10 CLOSED. _____

[75] **ROTATE** the following handswitches, at 2-M-6, to RESET:

A. 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-73. _____

B. 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72. _____

[76] **VERIFY** a RESET contact condition for Slave Relays 2-RLY-99-K647 and 2-RLY-99-K648, at 2-R-51.

A. TB631 points 1,2 OPEN. _____

B. TB631 points 3,4 OPEN. _____

[77] **VERIFY** the following:

A. 2-XA-55-4A-68B, LO STM PRESS SI-BLKD STM PRESS RATE SLI-ACTIVE (P-11), is CLEAR. _____

B. 2-XA-55-4A-69A, P-11 PZR PRESS PZR/STM PRESS SI BLOCK PERMISSIVE, is CLEAR. _____

C. 2-XA-55-4A-69B, PZR PRESS SI BLOCKED, is CLEAR. _____

D. 2-XA-55-4A-70A, SI ACTUATED, at 2-XA-55-4A, is CLEAR. _____

E. 2-XA-55-4A-70B, AUTO SI BLOCKED, BLOCKED, is CLEAR. _____

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- F. 2-XA-55-4D-76G, SI MANUAL, is CLEAR. _____
- G. 2-XA-55-4D-77G, SI PZR PRESS LO, is CLEAR. _____
- H. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____
- I. 2-XA-55-4D-79G, SI STM PRESS LO, is CLEAR. _____
- J. MISSP Trip Status Light 1 (2-XX-55-6C, 2-M-6), ØA, is OFF. _____
- K. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI; is OFF. _____
- L. MISSP Trip Status Light 4 (2-XX-55-6C, 2-M-6) MFW, is OFF. _____
- M. MISSP Trip Status Light 1 (2-XX-55-6D, 2-M-6) ØA, is OFF. _____
- N. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6) CVI, is OFF. _____
- O. MISSP Trip Status Light 4 (2-XX-55-6D, 2-M-6) MFW, is OFF. _____
- P. ICS point Y0920D (SFTY INJ SET MANUAL 1 CAUSES RX TRIP) indicates, NOT TR. _____
- Q. ICS point Y0921D (SFTY INJ SET MANUAL 2 CAUSES RX TRIP) indicates, NOT TR. _____
- R. White RESET Light on Handswitch 2-HS-63-73D, RWST-CNTMT SUMP SWITCHOVER SI SIG to FCV-63-73, at 2-M-6, is OFF. _____
- S. White RESET Light on Handswitch 2-HS-63-72D, RWST-CNTMT SUMP SWITCHOVER SI SIG TO FCV-63-72, at 2-M-6, is OFF. _____

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6.18 Manual Containment Spray Actuation Train B

[1] **VERIFY** prerequisites listed in Section 4.0 for Subsection 6.18 have been completed. _____

[2] **VERIFY** the following:

A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLINE ISOL is CLEAR. _____

B. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

C. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

D. 2-XA-55-4D-78G, SI CNTMT PRESS HI, is CLEAR. _____

E. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____

F. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6) ØB, is OFF. _____

G. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

H. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____

I. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____

J. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

CAUTION

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[3] **VERIFY** a pre-test contact condition per Table 14. _____

| | | |
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Date _____

6.18 Manual Containment Spray Actuation Train B (continued)

[4] **SIMULTANEOUSLY ROTATE** the following Handswitches,
at 2-M-5, to ACTUATE:

A. 2-HS-30-68A, ØB & CNTMT VENT ISOL. _____

B. 2-HS-30-68B, ØB & CNTMT VENT ISOL. _____

[5] **VERIFY** the following:

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY
ACTUATE, is in ALARM. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is in ALARM. _____

C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is ON. _____

D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB,
is ON. _____

E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS,
is ON. _____

F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is ON. _____

G. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB,
is ON. _____

H. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6) CS,
is ON. _____

[6] **VERIFY** the following Slave Relays are ACTUATED:

A. 2-RLY-99-K615 at 2-R-48. **(Acc Crit)** _____

B. 2-RLY-99-K622 at 2-R-48. **(Acc Crit)** _____

C. 2-RLY-99-K615 at 2-R-51. **(Acc Crit)** _____

D. 2-RLY-99-K622 at 2-R-51. **(Acc Crit)** _____

| | | |
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6.18 Manual Containment Spray Actuation Train B (continued)

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

- [7] **VERIFY** an ACTUATED contact condition per Table 14.
(Acc Crit) _____
- [8] **VERIFY** the following Slave Relays are ACTUATED,
at Panel 2-R-48:
- A. 2-RLY-99-K615 _____
 - B. 2-RLY-99-K618 _____
 - C. 2-RLY-99-K619 _____
 - D. 2-RLY-99-K622 _____
 - E. 2-RLY-99-K625 _____
 - F. 2-RLY-99-K626 _____
 - G. 2-RLY-99-K643 _____
 - H. 2-RLY-99-K644 _____
 - I. 2-RLY-99-K645 _____
- [9] **SIMULTANEOUSLY PRESS** the following Pushbuttons,
at 2-M-6:
- A. 2-HS-30-65A, CNTMT VENT ISOL RESET TR-A. _____
 - B. 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B. _____

| | | |
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Date _____

6.18 Manual Containment Spray Actuation Train B (continued)

[10] **VERIFY** the following:

- A. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI,
is OFF. _____
- B. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI,
is OFF. _____
- C. 2-RLY-99-K615, at 2-R-48, is RESET. _____
- D. 2-RLY-99-K622, at 2-R-48, is RESET. _____
- E. 2-RLY-99-K615, at 2-R-51, is RESET. _____
- F. 2-RLY-99-K622, at 2-R-51, is RESET. _____

[11] **PRESS** Pushbutton 2-HS-30-64E, ØB CNTMT ISOL RESET
TR-B, at 2-M-6. _____

[12] **VERIFY** the following:

- A. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6) ØB,
is ON. _____
- B. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB,
is OFF. _____

[13] **VERIFY** the following Slave Relays remain ACTUATED,
at 2-R-48:

- A. 2-RLY-99-K618 **(Acc Crit)** _____
- B. 2-RLY-99-K619 **(Acc Crit)** _____
- C. 2-RLY-99-K625 **(Acc Crit)** _____
- D. 2-RLY-99-K626 **(Acc Crit)** _____

| | | |
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Date _____

6.18 Manual Containment Spray Actuation Train B (continued)

[14] **VERIFY** the following Slave Relays are RESET, at 2-R-51:

A. 2-RLY-99-K618 _____

B. 2-RLY-99-K619 _____

C. 2-RLY-99-K625 _____

D. 2-RLY-99-K626 _____

[15] **PRESS** Pushbutton 2-HS-30-64D, ØB CNTMT ISOL, RESET TR-A, at 2-M-6. _____

[16] **VERIFY** MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6) B, is OFF. _____

[17] **VERIFY** the following Slave Relays are RESET, at 2-R-48:

A. 2-RLY-99-K618 _____

B. 2-RLY-99-K619 _____

C. 2-RLY-99-K625 _____

D. 2-RLY-99-K626 _____

[18] **PRESS** Pushbutton 2-HS-72-42, CNTMT SPRAY PMP B RESET TR-B, at 2-M-6. _____

[19] **VERIFY** the following:

A. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is ON. _____

B. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

[20] **VERIFY** the following Slave Relays remain ACTUATED, at 2-R-48:

A. 2-RLY-99-K643 **(Acc Crit)** _____

B. 2-RLY-99-K644 **(Acc Crit)** _____

C. 2-RLY-99-K645 **(Acc Crit)** _____

| | | |
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Date _____

6.18 Manual Containment Spray Actuation Train B (continued)

[21] **VERIFY** the following Slave Relays remain reset, at 2-R-51:

A. 2-RLY-99-K643 _____

B. 2-RLY-99-K644 _____

C. 2-RLY-99-K645 _____

[22] **PRESS** Pushbutton 2-HS-72-43, CNTMT SPRAY PMP A RESET TR-A, at 2-M-6. _____

[23] **VERIFY** the following Slave Relays remain reset, at 2-R-48:

A. 2-RLY-99-K643 _____

B. 2-RLY-99-K644 _____

C. 2-RLY-99-K645 _____

[24] **VERIFY** the following:

A. 2-XA-55-6C-125B, CNTMT HI-HI PRESS SPRAY ACTUATE, is CLEAR. _____

B. 2-XA-55-6C-125C, CNTMT ISOL PHASE B, is CLEAR. _____

C. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____

NOTE

Care must be taken when measuring contact condition to prevent inadvertent equipment actuation and when working near TB603 due to interface points with Unit 1.

[25] **VERIFY** a RESET contact condition per Table 14. _____

| | | |
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6.18 Manual Containment Spray Actuation Train B (continued)

[26] **VERIFY** the following:

- A. 2-XA-55-6C-125A, CNTMT HI-HI PRESS STEAMLIN ISOL, is CLEAR. _____
- B. 2-XA-55-4D-78G, SI CNTMT PRESS HI is CLEAR. _____
- C. MISSP Trip Status Light 2 (2-XX-55-6C, 2-M-6), CVI, is OFF. _____
- D. MISSP Trip Status Light 3 (2-XX-55-6C, 2-M-6), ØB, is OFF. _____
- E. MISSP Trip Status Light 8 (2-XX-55-6C, 2-M-6), CS, is OFF. _____
- F. MISSP Trip Status Light 2 (2-XX-55-6D, 2-M-6), CVI, is OFF. _____
- G. MISSP Trip Status Light 3 (2-XX-55-6D, 2-M-6), ØB, is OFF. _____
- H. MISSP Trip Status Light 8 (2-XX-55-6D, 2-M-6), CS, is OFF. _____

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Date _____

7.0 POST-PERFORMANCE ACTIVITIES

WARNING

118 volts AC is present during the following step.

- [1] **ENSURE** the Solid State Protection System (SSPS) alignment in Table 15 is complete. _____
- [2] **ENSURE** the Nuclear Instrumentation System (NIS) alignment in Table 16 is complete. _____
- [3] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-1, in NORMAL
 - A. F-414 RCS FLOW LP1 _____
 - B. F-424 RCS FLOW LP2 _____
 - C. F-434 RCS FLOW LP3 _____
 - D. F-444 RCS FLOW LP4 _____
 - E. F-455 PZR PRESSURE _____
 - F. L-459 PZR LEVEL _____
- [3.1] **ENSURE** PS/455B (PZR PRESS) Enable Manual Block of SI Ch1 bistable, at 2-R-1, in NORMAL. _____
- [4] **ENSURE** Eagle 21 Protection Channel T-411/412 DTTA LP1, at 2-R-2, in NORMAL. _____
- [5] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-3, in NORMAL:
 - A. P-514 STM PRESS LP1 _____
 - B. P-524 STM PRESS LP2 _____

| | | |
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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 448 of 518 |
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7.0 POST-PERFORMANCE ACTIVITIES (continued)

- [6] **ENSURE** the following Eagle 21 Protection Channels, at 2-R-4, in NORMAL:
- A. P-505 TURB IMP PR _____
 - B. P-534 STM PRESS LP3 _____
 - C. P-544 STM PRESS LP4 _____
- [7] **ENSURE** the following Eagle 21 Protection Channels at 2-R-5, in NORMAL:
- A. F-415 RCS FLOW LP1 _____
 - B. F-425 RCS FLOW LP2 _____
 - C. F-435 RCS FLOW LP3 _____
 - D. F-445 RCS FLOW LP4 _____
 - E. L-519-549 TTD _____
 - F. L-519 SG LEVEL LP1 _____
 - G. L-529 SG LEVEL LP2 _____
 - H. L-539 SG LEVEL LP3 _____
 - I. L-549 SG LEVEL LP4 _____
 - J. P-456 PZR PRESSURE _____
 - K. L-460 PZR LEVEL _____
- [7.1] **ENSURE** PS/456B (PZR PRESS) Enable Manual Block of SI Ch2 bistable, at 2-R-5, in NORMAL. _____
- [8] **ENSURE** Eagle 21 Protection Channel, T-421/422 DTTA LP2, at 2-R-6, in NORMAL. _____

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Date _____

7.0 POST-PERFORMANCE ACTIVITIES (continued)

[9] **ENSURE** the following Eagle 21 Protection Channels,
at 2-R-7, in NORMAL:

A. P-515 STM PRESS LP1 _____

B. P-535 STM PRESS LP3 _____

[10] **ENSURE** the following Eagle 21 Protection Channels,
at 2-R-8, in NORMAL:

A. P-506 TURB IMP PR _____

B. P-525 STM PRESS LP2 _____

C. P-545 STM PRESS LP4 _____

[11] **ENSURE** the following Eagle 21 Protection Channels,
at 2-R-9, in NORMAL:

A. F-416 RCS FLOW LP1 _____

B. F-426 RCS FLOW LP2 _____

C. F-436 RCS FLOW LP3 _____

D. F-446 RCS FLOW LP4 _____

E. P-457 PZR PRESSURE _____

F. L-461 PZR LEVEL _____

[11.1] **ENSURE** PS/457B (PZR PRESS) Enable Manual Block
of SI Ch3 bistable, at 2-R-9, in NORMAL _____

[12] **ENSURE** Eagle 21 Protection Channel T-431/432 DTTA LP3,
at 2-R-10, in NORMAL. _____

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Date _____

7.0 POST-PERFORMANCE ACTIVITIES (continued)

[13] **ENSURE** the following Eagle 21 Protection Channels,
at 2-R-11, in NORMAL:

A. L-518-548 TTD _____

B. L-518 SG LEVEL LP1 _____

C. L-528 SG LEVEL LP2 _____

D. L-538 SG LEVEL LP3 _____

E. L-548 SG LEVEL LP4 _____

F. P-526 STM PRESS LP2 _____

G. P-536 STM PRESS LP3 _____

[14] **ENSURE** the following Eagle 21 Protection Channels,
at 2-R-12, in NORMAL:

A. L-517-547 TTD _____

B. L-517 SG LEVEL LP1 _____

C. L-527 SG LEVEL LP2 _____

D. L-537 SG LEVEL LP3 _____

E. L-547 SG LEVEL LP4 _____

F. P-516 STM PRESS LP1 _____

G. P-546 STM PRESS LP4 _____

[15] **ENSURE** Eagle 21 Protection Channel T-441/442 DTTA LP4,
at 2-R-13, in NORMAL. _____

[16] **ENSURE** Eagle 21 Protection Channel P-458 PZR
PRESSURE, at 2-R-28, in NORMAL. _____

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 451 of 518 |
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7.0 POST-PERFORMANCE ACTIVITIES (continued)

[17] **REMOVE** switched jumpers at Train A (Input Cabinet 2-R-46):

A. ZS-47-28, TB109 Terminals 3 and 4. _____

CV

B. ZS-47-30, TB209 Terminals 3 and 4. _____

CV

C. ZS-47-32, TB308 Terminals 3 and 4. _____

CV

D. ZS-47-34, TB407 Terminals 3 and 4. _____

CV

[18] **REMOVE** switched jumpers at Train B (Input Cabinet 2-R-49):

A. ZS-47-28, TB109 Terminals 3 and 4. _____

CV

B. ZS-47-30, TB209 Terminals 3 and 4. _____

CV

C. ZS-47-32, TB308 Terminals 3 and 4. _____

CV

D. ZS-47-34, TB407 Terminals 3 and 4. _____

CV

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 452 of 518 |
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7.0 POST-PERFORMANCE ACTIVITIES (continued)

- [19] **REMOVE** the jumper from Terminal Points TA-1 (10A) and TA-2 (10902A) in 2-JB-290-1666-D.

CV
- [20] **REMOVE** the jumper from Terminal Points TA-5 (10B) and TA-6 (10902B) in 2-JB-290-1666-D.

CV
- [21] **REMOVE** the jumper from Terminal Points TA-1 (20A) and TA-2 (20902A) in 2-JB-290-1669-E.

CV
- [22] **REMOVE** the jumper from Terminal Points TA-5 (20B) and TA-6 (20902B) in 2-JB-290-1669-E.

CV
- [23] **REMOVE** the jumper from Terminal Points TA-1 (30A) and TA-2 (30802A) in 2-JB-290-1668-F.

CV
- [24] **REMOVE** the jumper from Terminal Points TA-5 (30B) and TA-6 (30802B) in 2-JB-290-1668-F.

CV
- [25] **REMOVE** the jumper from Terminal Points TA-7 (10907A1) and TA-8 (10908A) in 2-JB-290-3404-D.

CV

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7.0 POST-PERFORMANCE ACTIVITIES (continued)

- [26] **REMOVE** the jumper from Terminal Points TA-10 (10907B1) and TA-11 (10908B) in 2-JB-290-3404-D. _____
CV
- [27] **REMOVE** the jumper from Terminal Points TA-7 (20907A1) and TA-8 (20908A) in 2-JB-290-3405-E. _____
CV
- [28] **REMOVE** the jumper from Terminal Points TA-10 (20907B1) and TA-11 (20908B) in 2-JB-290-3405-E. _____
CV
- [29] **REMOVE** the jumper from Terminal Points TA-7 (30807A1) and TA-8 (30808A) in 2-JB-290-3406-F. _____
CV
- [30] **REMOVE** the jumper from Terminal Points TA-10 (30807B1) and TA-11 (30808B) in 2-JB-290-3406-F. _____
CV
- [31] **REMOVE** the jumper from Terminal Points TA-7 (40707A1) and TA-8 (40708A) in 2-JB-290-3407-G. _____
CV

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7.0 POST-PERFORMANCE ACTIVITIES (continued)

- [32] **REMOVE** the jumper from Terminal Points TA-10 (40707B1) and TA-11 (40708B) in 2-JB-290-3407-G. _____
CV
- [33] **REMOVE** the jumper from Terminal Points TA-1 (10811A1) and TA-2 (10812A) in 2-JB-290-3404-D. _____
CV
- [34] **REMOVE** the jumper from Terminal Points TA-4 (10811B1) and TA-5 (10812B) in 2-JB-290-3404-D. _____
CV
- [35] **REMOVE** the jumper from Terminal Points TA-1 (20811A1) and TA-2 (20812A) in 2-JB-290-3405-E. _____
CV
- [36] **REMOVE** the jumper from Terminal Points TA-4 (20811B1) and TA-5 (20812B) in 2-JB-290-3405-E. _____
CV
- [37] **REMOVE** the jumper from Terminal Points TA-1 (30711A1) and TA-2 (30712A) in 2-JB-290-3406-F. _____
CV
- [38] **REMOVE** the jumper from Terminal Points TA-4 (30711B1) and TA-5 (30712B) in 2-JB-290-3406-F. _____
CV

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 455 of 518 |
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Date _____

7.0 POST-PERFORMANCE ACTIVITIES (continued)

[39] **REMOVE** the jumper from Terminal Points TA-1 (40903A1) and TA-2 (40904A) in 2-JB-290-3407-G. _____

_____ CV

[40] **REMOVE** the jumper from Terminal Points TA-4 (40903B1) and TA-5 (40904B) in 2-JB-290-3407-G. _____

_____ CV

[41] **REMOVE** Switched Jumpers at the following locations:

A. Panel 2-R-47, Terminal Block TB506 across Terminal Points 4 and 5. _____

_____ CV

B. Panel 2-R-50, Terminal Block TB506 across Terminal Points 4 and 5. _____

_____ CV

[41.1] **LAND** the field wires at the following locations:

A. Panel 2-R-47, White wire for Cable 2PS167A on Terminal Block TB506 on Terminal Point 5. _____

_____ CV

B. Panel 2-R-50, White wire for Cable 2PS187B on Terminal Block TB506, Terminal Point 5. _____

_____ CV

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Date _____

7.0 POST-PERFORMANCE ACTIVITIES (continued)

[42] **REMOVE** switched jumpers at the following locations:

- A. Panel 2-R-47, Terminal Block TB506, across Terminal Points 1 and 2.

CV

- B. Panel 2-R-50, Terminal Block TB506, across Terminal Points 1 and 2.

CV

[43] **LAND** the field wires at the following locations:

- A. Panel 2-R-47, White wire for Cable 2PS200A on Terminal Block TB506, Terminal Point 2.

CV

- B. Panel 2-R-50, White wire for Cable 2PS205B on Terminal Block TB506, Terminal Point 2.

CV

[44] **VERIFY** that Post test calibration of the M&TE used to record quantitative acceptance criteria has been satisfactorily performed and the results RECORDED on Measuring and Test Equipment (M&TE) Log, Appendix F in SMP 9.0

[45] **NOTIFY** Unit 2 Supervisor's (US/SRO) or Shift Manager (SM) of the test completion and system alignment.

| | | |
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Date _____

8.0 RECORDS

A. QA Records

Completed Test Package (PTI)

B. Non-QA Records

None

| | | |
|-----------------------|--------------------------|---|
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**Appendix A
(Page 1 of 1)**

TEST PROCEDURES/INSTRUCTIONS REFERENCE REVIEW

Date _____

NOTES

- 1) Additional copies of this table may be made as necessary.
- 2) Initial and date indicates review has been completed for impact.

| PROCEDURE/ INSTRUCTION | REVISION/CHANGES | IMPACT Yes/No | INITIAL AND DATE. (N/A for no change) |
|--------------------------------------|--|--------------------------|--|
| FSAR Table 14.2-1 Sht 57 of 89 | Reactor Protection System Test Summary | | |
| FSAR Section 7.2 | Reactor Trip System | | |
| FSAR Section 7.3 | Engineered Safety Features Actuation System | | |
| FSAR Section 7.6.2 | Residual Heat Removal Isolation Valves | | |
| 2-TSD-099-04, | 2-TSD-99-4, Safeguards System Operational Test | | |
| WBN2-99-4003 | System Description For Reactor Protection System | | |
| VTM-W120-2991 | Westinghouse Energy Systems Eagle 21 Tm Process Upgrade System, Contract 54114-1 | | |
| VTM-W120-2452 | Westinghouse Solid State Protection System Technical Manual, Contract 54114-1 | | |

| | | |
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Table 1
(Page 1 of 6)
Unit 1 & 2 Interfaces

Date _____

| Purpose | Cable Number | Terminal Block | Terminal Point | Drawing | Slave Relay | Train | Notes |
|-------------------------------|-------------------------|---------------------------|---------------------------|----------------|------------------------|--------------|---|
| BKR 1-211-1912/6-A | 0PP1094 | TB603 | -1,-2 | 45N2676-4 | K603 | A | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| BKR 1-211-1914/6-B | 0PP1095 | TB603 | -1,-2 | 45N2677-4 | K603 | B | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| BKR 2-211-1922/6-A | 2PP606 | TB603 | -5,-6 | 45N2676-4 | K604 | A | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| To 1-R-74 Separation Relay | 2PP1503 | TB603 | -5,-6 | 45N2676-4 | K604 | A | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| To Train A SSPS (1-R-48) | 0PP1092 | TB603 | -9,-10 | 45N2676-4 | None | A | Jumped to TB603-5,-6 on rack side (after completion of DCN 54208-A) |

| | | |
|-----------------------|--------------------------|---|
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Table 1
(Page 2 of 6)
Unit 1 & 2 Interfaces

Date _____

| Purpose | Cable Number | Terminal Block | Terminal Point | Drawing | Slave Relay | Train | Notes |
|-------------------------------------|-------------------------|---------------------------|---------------------------|----------------|------------------------|--------------|---|
| BKR 2-211-1924/6-B | 2PP610 | TB603 | -5,-6 | 45N2677-4 | K604 | B | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| To 1-R-77 Separation Relay | 2PP1504 | TB603 | -5,-6 | 45N2677-4 | K604 | B | Under the control of TI-12.08 (after completion of DCN 54208-A) |
| To Train B SSPS (1-R-51) | 0PP1093 | TB603 | -9,-10 | 45N2677-4 | None | B | Jumpered to TB603-5,-6 on rack side (after completion of DCN 54208-A) |
| Auxiliary Building Isolation | 0V962 | TB612 | -3,-4 | 45N2676-4 | K606 | A | Lifted and Insulated on field |
| Shutdown Bd. Room Press. Fan A-A | 1PL3606 | TB612 | -7,-8 | 45N2676-4 | K606 | A | Bolted Connection on field |
| Auxiliary Building Isolation | 0V972 | TB612 | -3,-4 | -45N2677-4 | K606 | B | Lifted and Insulated on field |

| | | |
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**Table 1
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Unit 1 & 2 Interfaces

Date _____

| Purpose | Cable Number | Terminal Block | Terminal Point | Drawing | Slave Relay | Train | Notes |
|---|-------------------------|---------------------------|---------------------------|------------------------|------------------------|--------------|--|
| Shutdown Bd. Room Press. Fan C-B | 1PL3616 | TB612 | -7,-8 | 45N2677-4 | K606 | B | Bolted Connection on field |
| Control Room Isolation | 0V1222 | TB619 | -3,-4 | 45N2676-4 | K608 | A | Lifted and Insulated on field |
| Control Room Isolation | 0V1232 | TB619 | -3,-4 | 45N2677-4 | K608 | B | Lifted and Insulated on field |
| FCV-67-162 Compartment Heat Exch C Discharge Valve to Header 1B | 2V2796 | TB619 | -1,-2 | 45N2677-4 45N1677-4 | K608 | B | Lifted and Insulated in 1-R-51 but should be treated as if Interface Point was in 2-R-51 |
| Component Cooling Pump 2A-A | 2PL4730 | TB620 | -1,-2 | 45N2676-4 | K608 | A | Lifted and Insulated on field |
| Component Cooling Pump C-S | 1PL4728 | TB620 | -3,-4 | 45N2676-4 | K608 | A | Lifted and Insulated on field |
| Component Cooling Pump 2B-B | 2PL4747 | TB620 | -1,-2 | 45N2677-4 | K608 | B | Lifted and Insulated on field |
| Component Cooling Pump C-S | 2PL4741 | TB620 | -3,-4 | 45N2677-4 | K608 | B | Bolted Connection on field |
| Component Cooling Pump C-S | 2PL4736 | TB620 | -3,-4 | 45N2677-4 | K608 | B | Bolted Connection on field |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 463 of 518 |
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**Table 1
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Unit 1 & 2 Interfaces

Date _____

| Purpose | Cable Number | Terminal Block | Terminal Point | Drawing | Slave Relay | Train | Notes |
|--------------------------------|-------------------------|---------------------------|---------------------------|----------------|------------------------|--------------|--------------------------------|
| Diesel Generator 2A-A Start | 0PP425 | TB621 | -1,-2 | 45N2676-4 | K609 | A | Bolted Connection on field |
| Station Fire Pump 2A-A | 2PL5007 | TB621 | -3,-4 | 45N2676-4 | K609 | A | Lifted and Insulated on field |
| Diesel Generator 2B-B Start | 0PP665 | TB621 | -1,-2 | 45N2677-4 | K609 | B | Bolted Connection on field |
| Station Fire Pump 2B-B | 2PL5021 | TB621 | -3,-4 | 45N2677-4 | K609 | B | Lifted and Insulated on field |
| Overload Bypass | 2M982 | TB621 | -5,-6 | 45N2677-4 | K609 | B | Lifted and Insulated on field |
| Overload Bypass | 2M980 | TB621 | -5,-6 | 45N2676-4 | K609 | A | Lifted and Insulated on field |
| ERCW Pump A-A Start | 1PP682 | TB623 | -1,-2 | 45N2676-4 | K611 | A | Lifted and Insulated in 2-R-48 |
| ERCW Pump C-A Start | 1PP694 | TB623 | -3,-4 | 45N2676-4 | K611 | A | Lifted and Insulated in 2-R-48 |
| ERCW Pump B-A Start | 2PP681 | TB623 | -5,-6 | 45N2676-4 | K611 | A | Bolted Connection on field |
| ERCW Pump D-A Start | 2PP693 | TB623 | -7,-8 | 45N2676-4 | K611 | A | Bolted Connection on field |
| ERCW Pump B-A Start | 2PP682 | TB623 | -5,-6 | 45N2676-4 | K611 | A | Bolted Connection on field |
| ERCW Pump D-A Start | 2PP694 | TB623 | -7,-8 | 45N2676-4 | K611 | A | Bolted Connection on field |
| ERCW Pump E-B Start | 1PP719 | TB623 | -1,-2 | 45N2677-4 | K611 | B | Lifted and Insulated on field |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 464 of 518 |
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Table 1
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Unit 1 & 2 Interfaces

Date _____

| Purpose | Cable Number | Terminal Block | Terminal Point | Drawing | Slave Relay | Train | Notes |
|-------------------------------------|-------------------------|---------------------------|---------------------------|----------------|------------------------|--------------|-------------------------------|
| ERCW Pump G-B Start | 1PP707 | TB623 | -3,-4 | 45N2677-4 | K611 | B | Lifted and Insulated on field |
| ERCW Pump F-B Start | 2PP706 | TB623 | -5,-6 | 45N2677-4 | K611 | B | Bolted Connection on field |
| ERCW Pump H-B Start | 2PP718 | TB623 | -7,-8 | 45N2677-4 | K611 | B | Bolted Connection on field |
| ERCW Pump F-B Start | 2PP707 | TB623 | -5,-6 | 45N2677-4 | K611 | B | Bolted Connection on field |
| ERCW Pump F-B Start | 2PP1502 | TB623 | -5,-6 | 45N2677-4 | K611 | B | Bolted Connection on field |
| ERCW Pump H-B Start | 2PP719 | TB623 | -7,-8 | 45N2677-4 | K611 | B | Bolted Connection on field |
| ERCW Pump H-B Start | 2PP1501 | TB623 | -7,-8 | 45N2677-4 | K611 | B | Bolted Connection on field |
| Emergency Gas Treatment Fan A-A | 1PL3526 | TB637 | -5,-6 | 45N2676-5 | K613 | A | Lifted and Insulated on field |
| Emergency Gas Treatment Fan B-B | 1PL3536 | TB637 | -5,-6 | 45N2677-5 | K613 | B | Lifted and Insulated on field |
| Shutdown Bd. Room Press. Fan B-A | 2PL3606 | TB638 | -3,-4 | 45N2676-5 | K613 | A | Bolted Connection on field |
| Shutdown Bd. Room Press. Fan D-B | 2PL3616 | TB638 | -3,-4 | 45N2677-5 | K613 | B | Bolted Connection on field |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 465 of 518 |
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Table 1
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Unit 1 & 2 Interfaces

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 466 of 518 |
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**Table 2
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Breaker Lineup**

Date _____

| BREAKER IDENTIFICATION | BREAKER NOMENCLATURE | BREAKER LOCATION | POSITION | VERIFIED BY INITIAL/DATE |
|-----------------------------------|---|--|-----------------|-------------------------------------|
| 12 | 2-BKR-235-0001/12-D SSPS MCR Demultiplexer, 2-M-22 | 2-BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 25 | 2-BKR-235-0001/25-D Eagle-21 Process Protection Set Channel I, 2-R-3 | 2-BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 43 | 2-BKR-235-0001/43-D SSPS TR-A Input Bay 2-R-46, Channel I | 2-BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 44 | 2-BKR-235-0001/44-D SSPS TR-B Input Bay 2-R-49, Channel I | 2-BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 45 | 2-BKR-235-0001/45-D NIS INST PWR, 2-M-13, Channel I | 2-BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 46 | 2-BKR-235-0001/46-D NIS CONT PWR, 2-M-13, Channel I | 2 BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |
| 47 | 2-BKR-235-0001/47-D Eagle-21 Process Protection Set Channel I, 2-R-1 | 2 BD-235-1-D 120VAC VITAL INSTR POWER BOARD 2-I (757, A5R) | ON | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 467 of 518 |
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**Table 2
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Breaker Lineup**

Date _____

| BREAKER IDENTIFICATION | BREAKER NOMENCLATURE | BREAKER LOCATION | POSITION | VERIFIED BY INITIAL/DATE |
|-----------------------------------|--|---|-----------------|-------------------------------------|
| 25 | 2-BKR-235-0002/25-E Eagle-21 Process Protection Set Channel II, 2-R-7 | 2 BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 43 | 2-BKR-235-0002/43-E SSPS TR-A Input Bay 2-R-46, Channel II | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 44 | 2-BKR-235-0002/44-E SSPS TR-B Input Bay 2-R-49, Channel II | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 45 | 2-BKR-235-0002/45-E NIS INST PWR, 2-M-13, Channel II | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 46 | 2-BKR-235-0002/46-E NIS CONT PWR, 2-M-13, Channel II | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 47 | 2-BKR-235-0002/47-E Eagle-21 Process Protection Set Channel II, 2-R-5 | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |
| 25 | 2-BKR-235-0003/25-F CISP & MISSP TR-A (2-XX-55-6D & 6F) | 2-BD-235-2-E 120VAC VITAL INSTR POWER BOARD 2-II (757, A6R) | ON | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 468 of 518 |
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**Table 2
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Breaker Lineup**

Date _____

| BREAKER IDENTIFICATION | BREAKER NOMENCLATURE | BREAKER LOCATION | POSITION | VERIFIED BY INITIAL/DATE |
|-----------------------------------|---|---|-----------------|-------------------------------------|
| 27 | 2-BKR-235-0003/27-F SSPS TR-A Input & Output Relays 2-R-46 & 48 Channel III | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 29 | 2-BKR-235-0003/29-F NSSS Aux Relay Rack, 2-R-54 | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 34 | 2-BKR-235-0003/34-F SSPS TR-B Input Bay, 2-R-49, Channel III | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 35 | 2-BKR-235-0003/35-F NIS INST PWR, 2-M-13, Channel III | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 36 | 2-BKR-235-0003/36-F NIS CONT PWR, 2-M-13, Channel III | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 37 | 2-BKR-235-3/37-F Eagle-21 Process Protection Set Channel III, 2-R-9 | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |
| 43 | 2-BKR-235-3/43-F Eagle-21 Process Protection Set Channel III, 2-R-9 | 2-BD-235-3-F 120VAC VITAL INSTR POWER BOARD 2-III (757, A11R) | ON | |

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**Table 2
(Page 4 of 5)
Breaker Lineup**

Date _____

| BREAKER IDENTIFICATION | BREAKER NOMENCLATURE | BREAKER LOCATION | POSITION | VERIFIED BY INITIAL/DATE |
|-----------------------------------|--|--|-----------------|-------------------------------------|
| 25 | 2-BKR-235-0004/25-G CISP & MISSP Tr-B (2-XX-55-6C & 6E) | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A6R) | ON | |
| 27 | 2-BKR-235-0004/27-G SSPS TR-A Input Bay 2-R-49, Channel IV | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |
| 28 | 2-BKR-235-0004/28-G SSPS TR-B Input & Output Relays 2-R-49 & 51 Channel IV | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |
| 29 | 2-BKR-235-0004/29-G NIS INST PWR, 2-M-13, Channel IV | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |
| 30 | 2-BKR-235-0004/30-G NIS CONT PWR, 2-M-13, Channel IV | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |
| 31 | 2-BKR-235-0004/31-G Eagle-21 Process Protection Set Channel IV, 2-R-12 | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 470 of 518 |
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**Table 2
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Breaker Lineup**

Date _____

| BREAKER IDENTIFICATION | BREAKER NOMENCLATURE | BREAKER LOCATION | POSITION | VERIFIED BY INITIAL/DATE |
|-----------------------------------|---|---|-----------------|-------------------------------------|
| 45 | 2-BKR-235-0004/45-G Eagle-21 Process Protection Set Channel IV, 2-R-28 | 2-BD-235-4-G 120VAC VITAL INSTR POWER BOARD 2-IV (757, A11R) | ON | |
| 480V REACTOR MOV BD 2A1-A 12B | 2-BKR-063-72-A 2-FCV-63-72 CNTMT Sump to RHR Pump A-A | 480V Reactor MOV BD 2A1-A COMPT 12B (2-MCC-213-A1-1, COL A12T, EL 772) | ON | |
| 480V REACTOR MOV BD 2B1-B 12D | 2-BKR-063-73-B 2-FCV-63-73-B CNTMT Sump to RHR Pump B-B | 480V Reactor MOV SD 2B1-B COMPT 12D (2-MCC-213-B1-B, COL A12S, EL 772) | ON | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 471 of 518 |
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**Table 3
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Solid State Protection System (SSPS) Alignment

Date _____

| LOCATION | SWITCH | POSITION | VERIFIED BY INITIAL/DATE |
|--|---------------------------|----------------|-----------------------------|
| Train A 2-R-47 Logic Test Panel | Input Error Inhibit | NORMAL | |
| | Multiplexer Test | NORMAL | |
| | Blocking Function Test | INHIBIT BLOCKS | |
| | Function Selector Logic A | OFF | |
| | Function Selector Logic B | 24 | |
| | Function Selector Logic C | 24 | |
| | Function Selector Logic D | 24 | |
| | Permissives | OFF | |
| | Memories | OFF | |
| | S521 Timer Test | 1 (NORMAL) | |
| Train A 2-R-48 Output Relay Test Panel | Mode Selector | OPERATE | |
| | Master Relay Selector | OFF | |
| | S605 Timer Test | 1 (OFF) | |
| Train B 2-R-50 Logic Test Panel | Input Error Inhibit | NORMAL | |
| | Multiplexer Test | NORMAL | |
| | Blocking Function Test | INHIBIT BLOCKS | |
| | Function Selector Logic A | OFF | |
| | Function Selector Logic B | 24 | |
| | Function Selector Logic C | 24 | |
| | Function Selector Logic D | 24 | |
| | Permissives | OFF | |
| | Memories | OFF | |
| | S521 Timer Test | 1 (NORMAL) | |
| Train B 2-R-51 Output Relay Test Panel | Mode Selector | OPERATE | |
| | Master relay Selector | OFF | |
| | S605 Timer Test | 1 (OFF) | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 472 of 518 |
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**Table 3
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Solid State Protection System (SSPS) Alignment

Date _____

| LOCATION | LAMP | POSITION | VERIFIED BY INITIAL/DATE |
|---|-----------------|----------|-----------------------------|
| Train A 2-R-47 Logic Test Panel Automatic Input Function Test Lamps | Testing | OFF | |
| | Bad | ON | |
| | Good | OFF | |
| | Continuity | ON | |
| Function Logic Lamps | 1/1 | OFF | |
| | 1/2 | OFF | |
| | 1/3 | OFF | |
| | 1/4 | OFF | |
| | 2/2 | OFF | |
| | 2/3 | OFF | |
| | 2/4 | OFF | |
| Train A 2-R-48 Output Relay Test Panel Slaves Operated Lamps Logic Test Panel | Operate | ON | |
| | A1 | OFF | |
| | A2 | OFF | |
| | A3 | OFF | |
| | A4 | OFF | |
| | B1 | OFF | |
| | B2 | OFF | |
| | B3 | OFF | |
| | B4 | OFF | |
| Train A 2-R-47 Spray Test Panel General Warning Test Logic | This Train | ON | |
| | Opposite Train | ON | |
| | General Warning | OFF | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 473 of 518 |
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**Table 3
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Solid State Protection System (SSPS) Alignment

Date _____

| LOCATION | LAMP | POSITION | VERIFIED BY INITIAL/DATE |
|---|-----------------|----------|-----------------------------|
| Train B 2-R-50 Logic Test Panel Automatic Input Function Test Lamps | Testing | OFF | |
| | Bad | ON | |
| | Good | OFF | |
| | Continuity | ON | |
| Function Logic Lamps | 1/1 | OFF | |
| | 1/2 | OFF | |
| | 1/3 | OFF | |
| | 1/4 | OFF | |
| | 2/2 | OFF | |
| | 2/3 | OFF | |
| | 2/4 | OFF | |
| Train B 2-R-51 Output Relay Test Panel Slaves Operated Lamps Logic Test Panel | Operate | ON | |
| | A1 | OFF | |
| | A2 | OFF | |
| | A3 | OFF | |
| | A4 | OFF | |
| | B1 | OFF | |
| | B2 | OFF | |
| | B3 | OFF | |
| Train B 2-R-51 Spray Test Panel General Warning Test Logic | This Train | ON | |
| | Opposite Train | ON | |
| | General Warning | OFF | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 474 of 518 |
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**Table 4
(Page 1 of 5)**

Nuclear Instrumentation System Test Alignment

| Switch/Positions Bistable Light Status | | | |
|---|------------------------------------|-----------------|-------------------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Source Range N31 2-NI-92-131-D (2-M-13) | Level Trip | NORMAL | |
| | Level Adjust | FULLY CCW | |
| | High Flux at Shutdown | NORMAL | |
| | Output Selector | OFF | |
| Source Range N32 2-NI-92-132-E (2-M-13) | Level Trip | NORMAL | |
| | Level Test Adjust | FULLY CCW | |
| | High Flux at Shutdown | NORMAL | |
| | Output Selector | OFF | |
| Intermediate Range N35 2-NI-92-135-D (2-M-13) | Operation Selector | NORMAL | |
| | Level Trip | NORMAL | |
| | Test Selector | OPR | |
| | Level Adjust | FULLY CCW | |
| Intermediate Range N36 2-NI-92-136-E (2-M-13) | Operation Selector | NORMAL | |
| | Level Trip | NORMAL | |
| | Test Selector | OPR | |
| | Level Adjust | FULLY CCW | |
| Power Range A N41 2-IDWR-92-N41A-D (2-M-13) | Rate Mode | NORMAL | |
| Power Range B N41 2-IDWR-92-N41B-D (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |
| Power Range A N42 2-IDWR-92-N42A-E (2-M-13) | Rate Mode | Normal | |
| Power Range B N42 2-IDWR-92-N42B-E (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 475 of 518 |
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**Table 4
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Nuclear Instrumentation System Test Alignment

| Switch/Positions Bistable Light Status | | | |
|---|------------------------------------|-----------------|-------------------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Power Range A N43 2-IDWR-92-N43A-F (2-M-13) | Rate Mode | Normal | |
| Power Range B N43 2-IDWR-92-N43B-F (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |
| Power Range A N44 2-IDWR-92-N44A-G (2-M-13) | Rate Mode | Normal | |
| Power Range B N44 2-IDWR-92-N44B-G (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 476 of 518 |
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**Table 4
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Nuclear Instrumentation System Test Alignment

| Switch/Positions Bistable Light Status | | | |
|---|---------------------------|-----------------|-------------------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Source Range N31 2-NI-92-131-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | LEVEL TRIP | OFF | |
| | HIGH FLUX AT SHUTDOWN | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | SR NON-OPERATE | OFF | |
| Source Range N32 2-NI-92-132-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | LEVEL TRIP | OFF | |
| | HIGH FLUX AT SHUTDOWN | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | SR NON-OPERATE | OFF | |
| Intermediate Range N35 2-NI-92-135-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | HIGH LEVEL TRIP | OFF | |
| | HIGH LEVEL ROD STOP | OFF | |
| | POWER ABOVE PERMISSIVE P6 | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | IR/SR NON-OPERATE | OFF | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 477 of 518 |
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**Table 4
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Nuclear Instrumentation System Test Alignment

| Switch/Positions Bistable Light Status | | | |
|---|----------------------------|-----------------|-------------------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Intermediate Range N36 2-NI-92-136-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | HIGH LEVEL TRIP | OFF | |
| | HIGH LEVEL ROD STOP | OFF | |
| | POWER ABOVE PERMISSIVE P6 | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | IR/SR NON-OPERATE | OFF | |
| Power Range A N41 2-IDWR-92-N41A-D (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |
| Power Range B N41 2-IDWR-92-N41B-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N42 2-IDWR-92-N42A-E (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |

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**Table 4
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Nuclear Instrumentation System Test Alignment

| Switch/Positions Bistable Light Status | | | |
|---|----------------------------|-----------------|-------------------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Power Range B N42 2-IDWR-92-N42B-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N43 2-IDWR-92-N43A-F (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| Power Range B N43 2-IDWR-92-N43B-F (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N44 2-IDWR-92-N44A-G (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| Power Range B N44 2-IDWR-92-N44B-G (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |

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**Table 5
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Integrated Computer System Point Verification Log

| COMPUTER POINT | DESCRIPTION | STATUS | | INITIAL/DATE |
|-------------------|--------------------------------------|--------|--------|--------------|
| | | SET | RESET | |
| Subsection 6.1 | | | | |
| SD9000 | SI ACT TR-A | ACT | NO ACT | |
| SD9001 | SI ACT TR-B | ACT | NO ACT | |
| SD9006 | MAIN FEED ISOL TR-A | ACT | NO ACT | |
| SD9007 | MAIN FEED ISOL TR-B | ACT | NO ACT | |
| SD9010 | CNTMT ISOL PH A TR-A | ACT | NO ACT | |
| SD9011 | CNTMT ISOL PH A TR-B | ACT | NO ACT | |
| Y0920D | SFTY INJ SET MANUAL 1 CAUSES RX TRIP | TRIP | NOT TR | |
| Y0921D | SFTY INJ SET MANUAL 2 CAUSES RX TRIP | TRIP | NOT TR | |
| Subsection 6.2 | | | | |
| SD9002 | CNTMT SPRAY ACT TR-A | ACT | NO ACT | |
| SD9003 | CNTMT SPRAY ACT TR-B | ACT | NO ACT | |
| SD9012 | CNTMT ISOL PH B TR-A | ACT | NO ACT | |
| SD9013 | CNTMT ISOL PH B TR-B | ACT | NO ACT | |
| Subsection 6.3 | | | | |
| SD9004 | MAIN STM ISOL TR-A | ACT | NO ACT | |
| SD9005 | MAIN STM ISOL TR-B | ACT | NO ACT | |
| Subsection 6.4 | | | | |
| P0470D | STEAM LINE SI BLOCK TR-A | SET | RESET | |
| P0473D | SL HI NEG RT PRESS CAUS SL ISOL | TRIP | NOT TR | |
| P0474D | STEAM LINE SI BLOCK TR-B | SET | RESET | |
| P0492D | PZR LO PRESSURE 1 SI TR PART BLOCK | SET | RESET | |
| P0493D | PZR LO PRESSURE 2 SI TR PART BLOCK | SET | RESET | |
| P0494D | PZR LO PRESSURE 3 SI TR PART BLOCK | SET | RESET | |
| P0495D | PZR LO PRESSURE SI TR-A BLOCK | SET | RESET | |
| P0496D | PZR LO PRESSURE SI TR-B BLOCK | SET | RESET | |

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**Table 5
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Integrated Computer System Point Verification Log

| COMPUTER POINT | DESCRIPTION | STATUS | | INITIAL/DATE |
|-------------------|--|--------|--------|--------------|
| | | SET | RESET | |
| Subsection 6.5 | | | | |
| P0489D | PZR LO PRESSURE 1 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0490D | PZR LO PRESSURE 2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0491D | PZR LO PRESSURE 3 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| Y0480D | PZR LO PRESSURE SI CAUSES RX TRIP | TRIP | NOT TR | |
| Subsection 6.6 | | | | |
| P0401D | SL1 HI NEG RT PRESSURE 1 PART SL ISOL | TRIP | NOT TR | |
| P0402D | SL1 HI NEG RT PRESSURE 2 PART SL ISOL | TRIP | NOT TR | |
| P0403D | SL1 HI NEG RT PRESSURE 3 PART SL ISOL | TRIP | NOT TR | |
| P0421D | SL2 HI NEG RT PRESSURE 1 PART SL ISOL | TRIP | NOT TR | |
| P0422D | SL2 HI NEG RT PRESSURE 2 PART SL ISOL | TRIP | NOT TR | |
| P0423D | SL2 HI NEG RT PRESSURE 3 PART SL ISOL | TRIP | NOT TR | |
| P0441D | SL3 HI NEG RT PRESSURE 1 PART SL ISOL | TRIP | NOT TR | |
| P0442D | SL3 HI NEG RT PRESSURE 2 PART SL ISOL | TRIP | NOT TR | |
| P0443D | SL3 HI NEG RT PRESSURE 3 PART SL ISOL | TRIP | NOT TR | |
| P0461D | SL4 HI NEG RT PRESSURE 1 PART SL ISOL | TRIP | NOT TR | |
| P0462D | SL4 HI NEG RT PRESSURE 2 PART SL ISOL | TRIP | NOT TR | |
| P0463D | SL4 HI NEG RT PRESSURE 3 PART SL ISOL | TRIP | NOT TR | |
| P0473D | SL HI NEG RT PRESSURE CAUS SL ISOL | TRIP | NOT TR | |

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**Table 5
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Integrated Computer System Point Verification Log

| COMPUTER POINT | DESCRIPTION | STATUS | | INITIAL/DATE |
|-------------------|--|--------|--------|--------------|
| | | SET | RESET | |
| Subsection 6.7 | | | | |
| P1000D | CNTMT HI PRESSURE 2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P1001D | CNTMT HI PRESSURE 3 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P1002D | CNTMT HI PRESSURE 4 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P1003D | CNTMT HI PRESSURE SL CAUSES RX TRIP | TRIP | NOT TR | |
| COMPUTER POINT | DESCRIPTION | STATUS | | INITIAL/DATE |
| | | SET | RESET | |
| Subsection 6.8 | | | | |
| P0404D | SL1 LO PRESSURE P1 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0405D | SL1 LO PRESSURE P2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0406D | SL1 LO PRESSURE P3 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0407D | SL1 LO PRESSURE SI CAUSES RX TRIP | TRIP | NOT TR | |
| P0424D | SL2 LO PRESSURE P1 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0425D | SL2 LO PRESSURE P2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0426D | SL2 LO PRESSURE P3 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0427D | SL2 LO PRESSURE SI CAUSES RX TRIP | TRIP | NOT TR | |
| P0444D | SL3 LO PRESSURE P1 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0445D | SL3 LO PRESSURE P2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0446D | SL3 LO PRESSURE P3 SI PARTIAL RX TRIP | TRIP | NOT TR | |

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**Table 5
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Integrated Computer System Point Verification Log

| COMPUTER POINT | DESCRIPTION | STATUS | | INITIAL/DATE |
|-------------------|--|--------|--------|--------------|
| | | SET | RESET | |
| P0447D | SL3 LO PRESSURE SI CAUSES RX TRIP | TRIP | NOT TR | |
| P0464D | SL4 LO PRESSURE P1 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0465D | SL4 LO PRESSURE P2 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0466D | SL4 LO PRESSURE P3 SI PARTIAL RX TRIP | TRIP | NOT TR | |
| P0467D | SL4 LO PRESSURE SI CAUSES RX TRIP | TRIP | NOT TR | |
| Subsection 6.10 | | | | |
| T0408D | LP1 LO-LO T _{AVG} P12 PART PERM | SET | RESET | |
| T0428D | LP2 LO-LO T _{AVG} P12 PART PERM | SET | RESET | |
| T0448D | LP3 LO-LO T _{AVG} P12 PART PERM | SET | RESET | |
| T0468D | LP4 LO-LO T _{AVG} P12 PART PERM | SET | RESET | |

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**Table 6
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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-48 | | | | | |
|------------------------|--------|---------------------|------------------------|--------|---------------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB615 | 5, 6 | | TB618 | 1, 2 | |
| | 7, 8 | | | 3, 4 | |
| | 9, 10 | | | 5, 6 | |
| | 11, 12 | | | 7, 8 | |
| TB602 | 1, 2 | | | 9, 10 | |
| | 5, 6 | | | 11, 12 | |
| | 7, 8 | | TB605 | 1, 2 | |
| | 9, 10 | | | 3, 4 | |
| | 11, 12 | | | 5, 6 | |
| TB616 | 1, 2 | | | 7, 8 | |
| | 7, 8 | | | 9, 10 | |
| | 9, 10 | | | 11, 12 | |
| | 11, 12 | | TB619 | 3, 4 | |
| TB603 | 1, 2 | | | 5, 6 | |
| | 3, 4 | | | 7, 8 | |
| | 5, 6 | | | 9, 10 | |
| | 9, 10 | | TB606 | 1, 2 | |
| | 11, 12 | | | 5, 6 | |
| TB617 | 1, 2 | | | 7, 8 | |
| | 3, 4 | | | 9, 10 | |
| | 7, 8 | | | 11, 12 | |
| TB604 | 1, 2 | | TB620 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| | 7, 8 | | | 9, 10 | |
| | | | | 11, 12 | |

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**Table 6
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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-48 | | | | | |
|---------------------|--------|--------------|-----------------|--------|--------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB607 | 1, 2 | | TB624 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| | 9, 10 | | | 7, 8 | |
| | 11, 12 | | | 9, 10 | |
| TB621 | 1, 2 | | | 11, 12 | |
| | 3, 4 | | TB611 | 1, 2 | |
| | 5, 6 | | | 3, 4 | |
| | 7, 8 | | | 7, 8 | |
| TB622 | 5, 6 | | | 9, 10 | |
| | 7, 8 | | | 11, 12 | |
| TB609 | 1, 2 | | TB625 | 9, 10 | |
| | 3, 4 | | | 11, 12 | |
| | 5, 6 | | TB612 | 1, 2 | |
| | 7, 8 | | | 3, 4 | |
| TB623 | 1, 2 | | | 5, 6 | |
| | 3, 4 | | | 7, 8 | |
| | 5, 6 | | | 11, 12 | |
| | 7, 8 | | TB626 | 1, 2 | |
| | 9, 10 | | | 3, 4 | |
| | 11, 12 | | TB613 | 1, 2 | |
| TB610 | 1, 2 | | | 9, 10 | |
| | 3, 4 | | | 11, 12 | |
| | 5, 6 | | TB627 | 1, 2 | |
| | 7, 8 | | TB628 | 5, 6 | |
| | 9, 10 | | TB629 | 5, 6 | |
| | 11, 12 | | | 9, 10 | |

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| WBN Unit 2 | Safeguards System | 2-PTI-099-04 Rev. 0000 Page 485 of 518 |
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**Table 6
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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-48 | | | | | |
|---------------------|--------|--------------|-----------------|--------|--------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB630 | 1, 2 | | TB635 | 1, 2 | |
| | 3, 4 | | TB649 | 1, 2 | |
| | 7, 8 | | | 9, 10 | |
| | 9, 10 | | | 11, 12 | |
| TB631 | 1, 2 | | TB636 | 1, 2 | |
| | 5, 6 | | | 3, 4 | |
| | 11, 12 | | | 5, 6 | |
| TB632 | 1, 2 | | | 7, 8 | |
| | 5, 6 | | TB650 | 1, 2 | |
| | 9, 10 | | | 3, 4 | |
| | 11, 12 | | | 5, 6 | |
| TB646 | 5, 6 | | TB637 | 1, 2 | |
| | 7, 8 | | | 5, 6 | |
| | 9, 10 | | | 7, 8 | |
| | 11, 12 | | | 9, 10 | |
| TB633 | 1, 2 | | | 11, 12 | |
| | 3, 4 | | TB638 | 1, 2 | |
| TB647 | 3, 4 | | | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| | 7, 8 | | TB652 | 5, 6 | |
| | 9, 10 | | | 7, 8 | |
| | 11, 12 | | TB639 | 11, 12 | |
| TB634 | 1, 2 | | TB640 | 1, 2 | |
| | 3, 4 | | TB641 | 1, 2 | |
| | 5, 6 | | TB655 | 1, 2 | |
| | 7, 8 | | | 9, 10 | |
| TB648 | 1, 2 | | | | |

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**Table 6
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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-51 | | | | | |
|------------------------|--------|---------------------|------------------------|--------|---------------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB615 | 5, 6 | | TB619 | 1, 2 | |
| | 7, 8 | | | 3, 4 | |
| | 9, 10 | | | 5, 6 | |
| | 11, 12 | | | 7, 8 | |
| TB602 | 1, 2 | | TB606 | 9, 10 | |
| | 5, 6 | | | 1, 2 | |
| | 7, 8 | | | 5, 6 | |
| | 9, 10 | | | 7, 8 | |
| TB616 | 11, 12 | | | 9, 10 | |
| | 1, 2 | | | 11, 12 | |
| | 9, 10 | | TB620 | 1, 2 | |
| TB603 | 11, 12 | | | 3, 4 | |
| | 1, 2 | | | 5, 6 | |
| | 3, 4 | | | 9, 10 | |
| | 5, 6 | | | 11, 12 | |
| | 9, 10 | | TB607 | 1, 2 | |
| TB617 | 11, 12 | | | 3, 4 | |
| | 1, 2 | | | 5, 6 | |
| | 3, 4 | | | 9, 10 | |
| TB604 | 7, 8 | | | 11, 12 | |
| | 5, 6 | | TB621 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 1, 2 | | | 5, 6 | |
| TB605 | 3, 4 | | | 7, 8 | |
| | | | | | |

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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-51 | | | | | |
|------------------------|--------|---------------------|------------------------|--------|---------------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB622 | 5, 6 | | TB625 | 9, 10 | |
| | 7, 8 | | | 11, 12 | |
| TB609 | 1, 2 | | TB612 | 3, 4 | |
| | 3, 4 | | | 5, 6 | |
| | 5, 6 | | | 7, 8 | |
| | 7, 8 | | | 11, 12 | |
| TB623 | 1, 2 | | TB626 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 5, 6 | | TB613 | 1, 2 | |
| | 7, 8 | | | 9, 10 | |
| | 9, 10 | | | 11, 12 | |
| | 11, 12 | | TB627 | 1, 2 | |
| TB610 | 1, 2 | | TB628 | 5, 6 | |
| | 3, 4 | | TB629 | 5, 6 | |
| | 5, 6 | | | 9, 10 | |
| | 7, 8 | | TB630 | 1, 2 | |
| | 11, 12 | | | 3, 4 | |
| TB624 | 1, 2 | | | 7, 8 | |
| | 3, 4 | | | 9, 10 | |
| | 5, 6 | | TB631 | 1, 2 | |
| | 7, 8 | | | 5, 6 | |
| | 9, 10 | | TB632 | 1, 2 | |
| | 11, 12 | | | 5, 6 | |
| TB611 | 3, 4 | | | 9, 10 | |
| | 7, 8 | | | 11, 12 | |
| | 9, 10 | | | | |

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**Table 6
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SSPS K600 Relay Contact Wiring on Plastic

| Panel 2-R-51 | | | | | |
|------------------------|--------|---------------------|------------------------|--------|---------------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB646 | 7, 8 | | TB650 | 1, 2 | |
| | 9, 10 | | | 3, 4 | |
| TB633 | 1, 2 | | | 5, 6 | |
| | 3, 4 | | TB637 | 1, 2 | |
| TB647 | 3, 4 | | | 5, 6 | |
| | 5, 6 | | | 7, 8 | |
| | 7, 8 | | | 9, 10 | |
| | 9, 10 | | | 11, 12 | |
| | 11, 12 | | TB638 | 1, 2 | |
| TB634 | 1, 2 | | | 3, 4 | |
| | 3, 4 | | | 5, 6 | |
| | 5, 6 | | TB652 | 5, 6 | |
| | 7, 8 | | | 7, 8 | |
| TB648 | 1, 2 | | TB639 | 11, 12 | |
| TB 635 | 1, 2 | | TB640 | 1, 2 | |
| | 11, 12 | | TB641 | 1, 2 | |
| TB649 | 1, 2 | | TB655 | 1, 2 | |
| | 3, 4 | | | | |
| | 9, 10 | | | | |
| | 11, 12 | | | | |
| TB636 | 1, 2 | | | | |
| | 3, 4 | | | | |
| | 5, 6 | | | | |
| | 7, 8 | | | | |

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**Table 7
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SSPS K600 Series Relays Hard Landed

| Panel 2-R-48 | | | Panel 2-R-51 | | |
|------------------------|--------|---------------------|------------------------|--------|---------------------|
| Terminal Points | | Initial/Date | Terminal Points | | Initial/Date |
| TB607 | 7, 8 | | TB607 | 7, 8 | |
| TB609 | 9, 10 | | TB609 | 9, 10 | |
| TB614 | 1, 2 | | TB614 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| | 9, 10 | | | 9, 10 | |
| TB644 | 1, 2 | | TB644 | 1, 2 | |
| | 3, 4 | | | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| | 7, 8 | | | 7, 8 | |
| | 9, 10 | | | 9, 10 | |
| | 11, 12 | | | 11, 12 | |
| TB631 | 9, 10 | | TB631 | 9, 10 | |
| TB645 | 11, 12 | | TB645 | 11, 12 | |
| TB634 | 9, 10 | | TB634 | 9, 10 | |
| TB635 | 3, 4 | | TB635 | 3, 4 | |
| TB638 | 7, 8 | | TB638 | 7, 8 | |
| TB653 | 9, 10 | | TB653 | 9, 10 | |
| | 11, 12 | | | 11, 12 | |
| TB640 | 3, 4 | | TB640 | 3, 4 | |
| TB654 | 1, 12 | | TB654 | 1, 12 | |
| | 5, 6 | | | 5, 6 | |
| TB641 | 3, 4 | | TB641 | 3, 4 | |
| | 5, 6 | | | 5, 6 | |
| TB656 | 11, 12 | | TB656 | 11, 12 | |

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**Table 8
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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|--------------|------------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K602 | TB654-11, K647-6 | OPEN | | CLOSED | | OPEN | |
| | TB654-4, TD1-L1 | OPEN | | CLOSED | | OPEN | |
| K603 | TB602 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB602 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB602 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB602 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB602 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB602 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB603 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB603 3, 4 | OPEN | | CLOSED | | OPEN | |
| K604 | TB603 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB603 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB604 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB604 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB604 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB604 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K607 | TB618 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB618 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB618 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB618 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB 618 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB618 11, 12 | CLOSED | | OPEN | | CLOSED | |

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Table 8
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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K615 | TB605 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB605 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB605 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB605 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB605 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB605 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K608 | TB619 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB619 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB619 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB619 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB619 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB619 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB620 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB620 3, 4 | OPEN | | CLOSED | | OPEN | |
| K615 | TB606 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB606 3, 4 | OPEN | | CLOSED | | OPEN | |
| K622 | TB606 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB606 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB606 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB606 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K609 | TB620 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB620 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB620 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB620 11, 12 | CLOSED | | OPEN | | CLOSED | |

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Table 8
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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|----------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K622 | TB607 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB607 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB607 5, 6 | OPEN | | CLOSED | | OPEN | |
| K609 | TB621 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB621 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB621 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB621 7, 8 | OPEN | | CLOSED | | OPEN | |
| K610 K637* & K649 | TB621 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB621 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB622 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB 622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K611 | TB623 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB623 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB623 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB623 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB623 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB623 11, 12 | OPEN | | CLOSED | | OPEN | |
| K605 | TB610 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB610 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB610 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB610 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB610 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB610 11, 12 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K637 are being verified on this data sheet.

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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|-----------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K611 | TB624 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB624 3, 4 | OPEN | | CLOSED | | OPEN | |
| K605 | TB611 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB611 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K606 | TB611 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB611 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB611 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB611 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB612 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB612 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB612 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB612 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K612 | TB629 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB629 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB629 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB629 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB630 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB630 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB630 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB630 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K601* K620 K636 | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K601 are being tested on this data sheet.

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Table 8
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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|-----------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K647 | TB631 11, 12 | OPEN | | CLOSED | | CLOSED | |
| K630 | TB646 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB646 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB646 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB646 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB646 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB646 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB647 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB647 3, 4 | OPEN | | CLOSED | | OPEN | |
| K621 | TB634 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB634 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB634 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB634 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB634 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB634 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K601*, K620 & K636 | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K621 | TB635 1, 2 | OPEN | | CLOSED | | OPEN | |
| K601*, K620 & K636 | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K601 are being tested on this data sheet.

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Manual Safety Injection Train A

| Panel 2-R-48 | | Step 6.1[26] | | Step 6.1[31] | | Step 6.1[57] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K613 | TB637 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB637 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB637 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB637 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB637 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB637 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB638 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB638 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K614 | TB638 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB 638 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB638 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB639 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB639 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB639 7, 8 | OPEN | | CLOSED | | OPEN | |

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Manual Containment Spray Actuation Train A

| Panel 2-R-48 | | Step 6.2[4] | | Step 6.2[33] | | Step 6.2[51] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K619 | TB609 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB609 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB609 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB609 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB609 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB609 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K618 | TB612 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB613 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB613 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB613 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB613 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB613 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB613 11, 12 | OPEN | | CLOSED | | OPEN | |
| K619 | TB615 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB615 3, 4 | OPEN | | CLOSED | | OPEN | |
| K625 | TB615 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB615 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB615 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB615 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB616 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB616 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB616 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB616 7, 8 | OPEN | | CLOSED | | OPEN | |

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**Table 9
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Manual Containment Spray Actuation Train A

| Panel 2-R-48 | | Step 6.2[4] | | Step 6.2[33] | | Step 6.2[51] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K626 | TB616 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB616 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB617 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB617 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB617 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB617 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB617 11, 12 | OPEN | | CLOSED | | OPEN | |
| K644 | TB652 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB652 3, 4 | OPEN | | CLOSED | | OPEN | |
| K643 | TB639 11, 12 | OPEN | | CLOSED | | OPEN | |
| K645 | TB653 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB653 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB653 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB653 7, 8 | OPEN | | CLOSED | | OPEN | |
| K643 | TB640 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB640 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB640 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB640 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB640 11, 12 | OPEN | | CLOSED | | OPEN | |
| K644 | TB641 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB641 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB641 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB641 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB641 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB641 11, 12 | CLOSED | | OPEN | | CLOSED | |

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**Table 10
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Containment Hi-Hi Pressure Steam Line Isolation

| Panel 2-R-48 | | Step 6.3[7] | | Step 6.3[29] | | Step 6.3[39] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K616 | TB624 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB624 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB624 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB624 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB 625 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB625 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB625 7, 8 | OPEN | | CLOSED | | OPEN | |
| K623 | TB625 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB625 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB626 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB626 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB626 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB626 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB626 9, 10 | OPEN | | CLOSED | | OPEN | |
| K617 | TB626 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB627 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB627 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB627 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB627 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB627 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB627 11, 12 | OPEN | | CLOSED | | OPEN | |
| K624 | TB628 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB628 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB628 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB628 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB628 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB628 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB645 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB645 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB645 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB645 7, 8 | OPEN | | CLOSED | | OPEN | |

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Containment Hi-Hi Pressure Steam Line Isolation

| Panel 2-R-51 | | Step 6.3[7] | | Step 6.3[29] | | Step 6.3[39] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K616 | TB624 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB624 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB624 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB624 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB625 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB625 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB625 7, 8 | OPEN | | CLOSED | | OPEN | |
| K623 | TB625 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB625 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB626 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB626 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB626 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB626 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB626 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB626 11, 12 | OPEN | | CLOSED | | OPEN | |
| K617 | TB627 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB627 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB627 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB627 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB627 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB628 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB628 3, 4 | OPEN | | CLOSED | | OPEN | |
| K624 | TB628 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB628 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB628 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB645 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB645 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB645 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB645 7, 8 | OPEN | | CLOSED | | OPEN | |

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**Table 11
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Low T_{AVG} - P-4 Feedwater Isolation

| Panel 2-R-48 | | Step 6.11[7] | | Step 6.11[31] | | Step 6.11[39] | |
|------------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K610, K637*, & K649 | TB621 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB621 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB622 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K601, K620, & K636* | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

| Panel 2-R-51 | | Step 6.11[7] | | Step 6.11[31] | | Step 6.11[39] | |
|------------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K610, K637*, & K649 | TB621 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB621 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB622 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K601, K620, & K636* | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K636 & K637 are being verified on this data sheet.

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**Table 12
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Steam Generator Hi-Hi P-14 Turbine Trip/Feedwater Isolation

| Panel 2-R-48 | | Step 6.14[6] | | Step 6.14[60] | | Step 6.14[70] | |
|------------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K610, K637, & K649* | TB622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K601, K620*, & K636 | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

| Panel 2-R-51 | | Step 6.14[6] | | Step 6.14[60] | | Step 6.14[70] | |
|------------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K610, K637, & K649* | TB622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K601, K620*, & K636 | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K620 & K649 are being verified on this data sheet.

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Manual Safety Injection Train B

| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|--------------|------------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K602 | TB654-11, K647-6 | OPEN | | CLOSED | | OPEN | |
| | TB654-4, TD1-L1 | OPEN | | CLOSED | | OPEN | |
| K603 | TB602 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB602 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB602 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB602 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB602 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB602 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB603 1, 2 | OPEN | | CLOSDE | | OPEN | |
| | TB603 3, 4 | OPEN | | CLOSED | | OPEN | |
| K604 | TB603 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB603 9, 10 | CLOSE | | OPEN | | CLOSED | |
| | TB603 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB604 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB604 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB604 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB604 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K607 | TB618 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB618 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB618 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB618 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB 618 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB618 11, 12 | CLOSED | | OPEN | | CLOSED | |

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Manual Safety Injection Train B

| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K615 | TB605 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB605 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB605 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB605 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB605 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB605 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K608 | TB619 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB619 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB619 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB619 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB619 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB619 11, 12 | OPEN | | CLOSED | | OPEN | |
| K615 | TB606 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB606 3, 4 | OPEN | | CLOSED | | OPEN | |
| K622 | TB606 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB606 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB606 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB606 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K608 | TB620 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB620 3, 4 | OPEN | | CLOSED | | OPEN | |
| K609 | TB620 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB620 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB620 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB620 11, 12 | CLOSED | | OPEN | | CLOSED | |

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Manual Safety Injection Train B

| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|----------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K622 | TB607 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB607 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB607 5, 6 | OPEN | | CLOSED | | OPEN | |
| K609 | TB621 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB621 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB621 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB621 7, 8 | OPEN | | CLOSED | | OPEN | |
| K610 K637* & K649 | TB621 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB621 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB622 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB 622 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB622 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB622 9, 10 | CLOSED | | OPEN | | CLOSED | |
| K611 | TB623 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB623 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB623 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB623 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB623 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB623 11, 12 | OPEN | | CLOSED | | OPEN | |
| K605 | TB610 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB610 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB610 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB610 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB610 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB610 11, 12 | CLOSED | | OPEN | | CLOSED | |

* Relay contacts for K637 are being verified on this data sheet.

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| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|-----------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K611 | TB624 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB624 3, 4 | OPEN | | CLOSED | | OPEN | |
| K605 | TB611 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB611 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K606 | TB611 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB611 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB611 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB611 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB612 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB612 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB612 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB612 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K612 | TB629 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB629 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB629 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB629 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB630 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB630 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB630 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB630 7, 8 | CLOSED | | OPEN | | CLOSED | |
| K601* K620 K636 | TB630 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB631 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB631 7, 8 | CLOSED | | OPEN | | CLOSED | |

*Relay contact for K601 is being verified on this data sheet.

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Manual Safety Injection Train B

| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|-------------------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K647 | TB631 11, 12 | OPEN | | CLOSED | | CLOSED | |
| K630 | TB646 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB646 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB646 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB646 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB646 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB646 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB647 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB647 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K621 | TB634 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB634 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB634 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB634 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB634 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB634 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K601, K620 & K636 | TB648 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB648 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K621 | TB635 1, 2 | OPEN | | CLOSED | | OPEN | |
| K601, K620 & K636 | TB649 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB649 3, 4 | CLOSED | | OPEN | | CLOSED | |

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| Panel 2-R-51 | | Step 6.17[29] | | Step 6.17[33] | | Step 6.17[56] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K613 | TB637 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB637 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB637 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB637 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB637 11, 12 | CLOSED | | OPEN | | CLOSED | |
| | TB638 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB638 3, 4 | CLOSED | | OPEN | | CLOSED | |
| K614 | TB638 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB 638 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB638 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB639 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB639 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB639 7, 8 | OPEN | | CLOSED | | OPEN | |

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**Table 14
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Manual Containment Spray Actuation Train B

| Panel 2-R-51 | | Step 6.18[3] | | Step 6.18[7] | | Step 6.18[25] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K619 | TB609 1, 2 | CLOSED | | OPEN | | CLOSED | |
| | TB609 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB609 5, 6 | CLOSED | | OPEN | | CLOSED | |
| | TB609 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB609 11, 12 | CLOSED | | OPEN | | CLOSED | |
| K618 | TB612 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB613 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB613 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB613 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB613 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB613 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB613 11, 12 | OPEN | | CLOSED | | OPEN | |
| K619 | TB615 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB615 3, 4 | OPEN | | CLOSED | | OPEN | |
| K625 | TB615 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB615 7, 8 | CLOSED | | OPEN | | CLOSED | |
| | TB615 9, 10 | CLOSED | | OPEN | | CLOSED | |
| | TB615 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB616 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB616 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB616 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB616 7, 8 | OPEN | | CLOSED | | OPEN | |

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**Table 14
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Manual Containment Spray Actuation Train B

| Panel 2-R-51 | | Step 6.18[3] | | Step 6.18[7] | | Step 6.18[25] | |
|--------------|-----------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Relay | Terminal Points | Contact State | Initial/Date | Contact State | Initial/Date | Contact State | Initial/Date |
| K626 | TB616 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB616 11, 12 | OPEN | | CLOSED | | OPEN | |
| | TB617 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB617 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB617 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB617 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB617 11, 12 | OPEN | | CLOSED | | OPEN | |
| K644 | TB652 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB652 3, 4 | OPEN | | CLOSED | | OPEN | |
| K643 | TB639 11, 12 | OPEN | | CLOSED | | OPEN | |
| K645 | TB653 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB653 3, 4 | OPEN | | CLOSED | | OPEN | |
| | TB653 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB653 7, 8 | OPEN | | CLOSED | | OPEN | |
| K643 | TB640 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB640 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB640 5, 6 | OPEN | | CLOSED | | OPEN | |
| | TB640 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB640 11, 12 | OPEN | | CLOSED | | OPEN | |
| K644 | TB641 1, 2 | OPEN | | CLOSED | | OPEN | |
| | TB641 3, 4 | CLOSED | | OPEN | | CLOSED | |
| | TB641 7, 8 | OPEN | | CLOSED | | OPEN | |
| | TB641 9, 10 | OPEN | | CLOSED | | OPEN | |
| | TB641 11, 12 | CLOSED | | OPEN | | CLOSED | |

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Solid State Protection System (SSPS) Post Test Alignment

| LOCATION | SWITCH | POSITION | VERIFIED BY INITIAL/DATE |
|---|---------------------------|----------------|-----------------------------|
| Train A 2-R-47 Logic Test Panel | Input Error Inhibit | NORMAL | |
| | Multiplexer Test | NORMAL | |
| | Blocking Function Test | INHIBIT BLOCKS | |
| | Function Selector Logic A | OFF | |
| | Function Selector Logic B | 24 | |
| | Function Selector Logic C | 24 | |
| | Function Selector Logic D | 24 | |
| | Permissives | OFF | |
| | Memories | OFF | |
| | S521 Timer Test | 1 (NORMAL) | |
| Train A 2-R-48 Output Relay Test Panel | Mode Selector | OPERATE | |
| | Master Relay Selector | OFF | |
| | S605 Timer Test | 1 (OFF) | |
| Train B 2-R-50 Logic Test Panel | Input Error Inhibit | NORMAL | |
| | Multiplexer Test | NORMAL | |
| | Blocking Function Test | INHIBIT BLOCKS | |
| | Function Selector Logic A | OFF | |
| | Function Selector Logic B | 24 | |
| | Function Selector Logic C | 24 | |
| | Function Selector Logic D | 24 | |
| | Permissives | OFF | |
| | Memories | OFF | |
| | S521 Timer Test | 1 (NORMAL) | |
| Train B 2-R-51 Output Relay Test Panel | Mode Selector | OPERATE | |
| | Master Relay Selector | OFF | |
| | S605 Timer Test | 1 (OFF) | |

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**Table 15
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Solid State Protection System (SSPS) Post Test Alignment

| LOCATION | LAMP | POSITION | VERIFIED BY INITIAL/DATE |
|---|-----------------|----------|-----------------------------|
| Train A 2-R-47 Logic Test Panel Automatic Input Function Test Lamps | Testing | OFF | |
| | Bad | ON | |
| | Good | OFF | |
| | Continuity | ON | |
| Function Logic Lamps | 1/1 | OFF | |
| | 1/2 | OFF | |
| | 1/3 | OFF | |
| | 1/4 | OFF | |
| | 2/2 | OFF | |
| | 2/3 | OFF | |
| | 2/4 | OFF | |
| Train A 2-R-48 Output Relay Test Panel Slaves Operated Lamps Logic Test Panel | Operate | ON | |
| | A1 | OFF | |
| | A2 | OFF | |
| | A3 | OFF | |
| | A4 | OFF | |
| | B1 | OFF | |
| | B2 | OFF | |
| | B3 | OFF | |
| Train A 2-R-47 Spray Test Panel General Warning Test Logic | This Train | ON | |
| | Opposite Train | ON | |
| | General Warning | OFF | |

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**Table 15
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Solid State Protection System (SSPS) Post Test Alignment

| LOCATION | LAMP | POSITION | VERIFIED BY INITIAL/DATE |
|---|-----------------|----------|-----------------------------|
| Train B 2-R-50 Logic Test Panel Automatic Input Function Test Lamps | Testing | OFF | |
| | Bad | ON | |
| | Good | OFF | |
| | Continuity | ON | |
| Function Logic Lamps | 1/1 | OFF | |
| | 1/2 | OFF | |
| | 1/3 | OFF | |
| | 1/4 | OFF | |
| | 2/2 | OFF | |
| | 2/3 | OFF | |
| | 2/4 | OFF | |
| Train B 2-R-51 Output Relay Test Panel Slaves Operated Lamps Logic Test Panel | Operate | ON | |
| | A1 | OFF | |
| | A2 | OFF | |
| | A3 | OFF | |
| | A4 | OFF | |
| | B1 | OFF | |
| | B2 | OFF | |
| | B3 | OFF | |
| Train B 2-R-51 Spray Test Panel General Warning Test Logic | This Train | ON | |
| | Opposite Train | ON | |
| | General Warning | OFF | |

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**Table 16
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Nuclear Instrumentation System Post Test Alignment

| Switch Positions/Bistable Light Status | | | |
|---|------------------------------------|-----------|-----------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Source Range N31 2-NI-92-131-D (2-M-13) | Level Trip | NORMAL | |
| | Level Adjust | FULLY CCW | |
| | High Flux at Shutdown | NORMAL | |
| | Output Selector | OFF | |
| Source Range N32 2-NI-92-132-E (2-M-13) | Level Trip | NORMAL | |
| | Level Adjust | FULLY CCW | |
| | High Flux at Shutdown | NORMAL | |
| | Output Selector | OFF | |
| Intermediate Range N35 2-NI-92-135-D (2-M-13) | Operation Selector | NORMAL | |
| | Level Trip | NORMAL | |
| | Test Selector | OPR | |
| | Level Adjust | FULLY CCW | |
| Intermediate Range N36 2-NI-92-136-E (2-M-13) | Operation Selector | NORMAL | |
| | Level Trip | NORMAL | |
| | Test Selector | OPR | |
| | Level Adjust | FULLY CCW | |
| Power Range A N41 2-IDWR-92-N41A-D (2-M-13) | Rate Mode | Normal | |
| Power Range B N41 2-IDWR-92-N41B-D (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |
| Power Range A N42 2-IDWR-92-N42A-E (2-M-13) | Rate Mode | Normal | |
| Power Range B N42 2-IDWR-92-N42B-E (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |

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**Table 16
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Nuclear Instrumentation System Post Test Alignment

| Switch Positions/Bistable Light Status | | | |
|---|------------------------------------|-----------|-----------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Power Range A N43 2-IDWR-92-N43A-F (2-M-13) | Rate Mode | Normal | |
| Power Range B N43 2-IDWR-92-N43B-F (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |
| Power Range A N44 2-IDWR-92-N44A-G (2-M-13) | Rate Mode | Normal | |
| Power Range B N44 2-IDWR-92-N44B-G (2-M-13) | Operation Selector | NORMAL | |
| | Detector A Range Milli-Amps | 0.5 | |
| | Detector B Range Milli-Amps | 0.5 | |
| | Test Signal Potentiometers (A + B) | FULLY CCW | |

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**Table 16
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Nuclear Instrumentation System Post Test Alignment

| Switch Positions/Bistable Light Status | | | |
|---|---------------------------|----------|-----------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Source Range N31 2-NI-92-131-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | LEVEL TRIP | OFF | |
| | HIGH FLUX AT SHUTDOWN | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | SR NON-OPERATE | OFF | |
| Source Range N32 2-NI-92-132-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | LEVEL TRIP | OFF | |
| | HIGH FLUX AT SHUTDOWN | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | SR NON-OPERATE | OFF | |
| Intermediate Range N35 2-NI-92-135-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | HIGH LEVEL TRIP | OFF | |
| | HIGH LEVEL ROD STOP | OFF | |
| | POWER PERMISSIVE ABOVE P6 | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | IR/SR NON-OPERATE | OFF | |

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**Table 16
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Nuclear Instrumentation System Post Test Alignment

| Switch Positions/Bistable Light Status | | | |
|---|----------------------------|----------|-----------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Intermediate Range N36 2-NI-92-136-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CONTROL POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| | LEVEL TRIP BYPASS | OFF | |
| | HIGH LEVEL TRIP | OFF | |
| | HIGH LEVEL ROD STOP | OFF | |
| | POWER PERMISSIVE ABOVE P6 | OFF | |
| | BISTABLE TRIP SPARE | OFF | |
| | IR/SR NON-OPERATE | OFF | |
| Power Range A N41 2-IDWR-92-N41A-D (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |
| Power Range B N41 2-IDWR-92-N41B-D (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N42 2-IDWR-92-N42A-E (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |

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**Table 16
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Nuclear Instrumentation System Post Test Alignment

| Switch Positions/Bistable Light Status | | | |
|---|----------------------------|----------|-----------------------------|
| DRAWER | SWITCH/INDICATOR | POSITION | VERIFIED BY INITIAL/DATE |
| Power Range B N42 2-IDWR-92-N42B-E (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N43 2-IDWR-92-N43A-F (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |
| Power Range B N43 2-IDWR-92-N43B-F (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |
| Power Range A N44 2-IDWR-92-N44B-G (2-M-13) | CONTROL POWER ON | ON | |
| | POWER ABOVE PERMISSIVE P9 | OFF | |
| | OVERPOWER TRIP HIGH RANGE | OFF | |
| | OVERPOWER ROD STOP | OFF | |
| | OVERPOWER TRIP LOW RANGE | OFF | |
| | POWER ABOVE PERMISSIVE P10 | OFF | |
| | POWER ABOVE PERMISSIVE P8 | OFF | |
| | POSITIVE RATE TRIP | OFF | |
| | SPARE | OFF | |
| Power Range B N44 2-IDWR-92-N44B-G (2-M-13) | INSTRUMENT POWER ON | ON | |
| | CHANNEL ON TEST | OFF | |

| | | |
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Slave Relays & Associated Function

| MASTER | | | SLAVE | LATCH | FUNCTION |
|--------|------|----------------|------------------------|-------|-----------------------------------|
| | | K501 | K601 | L | Safety Injection Fw Valve Closure |
| | | K521 | K602 | L | Safety Injection |
| | | K501 | K603 | L | Safety Injection |
| | | K521 | K604 | L | Safety Injection |
| | | K502 | K605 | L | Containment Isolation Ø A |
| | | K522 | K606 | L | Containment Isolation Ø A |
| | | K502 | K607 | L | Containment Isolation Ø A |
| | | K501 | K608 | L | Safety Injection |
| | | K521 | K609 | L | Safety Injection |
| | | K501 | K610 | L | Safety Injection |
| | | K521 | K611 | L | Safety Injection |
| | | K522 | K612 | L | Containment Isolation Ø A |
| | | K502 | K613 | L | Containment Isolation Ø A |
| | | K522 | K614 | L | Containment Isolation Ø A |
| | | K503 | K615 | L | Containment Vent Isolation |
| | | K504 | K616 | L | Steam Stop Valves |
| | | K504 | K617 | L | Steam Stop Valves |
| | | K506 | K618 | L | Containment Isolation Ø B |
| | | K506 | K619 | L | Containment Isolation Ø B |
| | | K507 | K620 | | FW Valves (Hi-Hi Stm Gen Valve) |
| K601 | K620 | K636 | K621 | | Trip Turbine & Feedwater Pumps |
| | | K503 | K622 | L | Containment Vent Isolation |
| | | K504 | K623 | L | Steam Stop Valves |
| | | K504 | K624 | L | Steam Stop Valves |
| | | K506 | K625 | L | Containment Isolation Ø B |
| | | K506 | K626 | L | Containment Isolation ØB |
| | | K506 | K627 | | RCP UV & UF |
| | | K510 | K628 | | Accum Isol Valves P-11 |
| | | K511 | K629 | | Source Range Block |
| | | K522 | K630 | L | Containment Isolation Ø A |
| | | K513 | K631 | | Lo-Lo Tavg Stm Dmp Interlock |
| | | K520 | K636 | L | FW Valves (Low Tavg & Rx Trip) |
| | | K520 | K637 | L | FW Valves (Low Tavg & Rx Trip) |
| | | K505 & K519 | K643, K644, K645 | L | Spray Actuation |
| | | K602 | K647 | L | Safety Injection Latch (Rwst) |
| | | K523 | K648 | | Rwst Lo-Lo (1) Level |
| | | K507 | K649 | | FW Valves (Hi-Hi Stm Gen Level) |
| TRN A | | TRN B | | | |
| K347 | or | K443 | K638 | | Cntmt Spray Pump Hi Flow |
| K348 | or | K444 | K639 | | Cntmt Spray Pump Hi-Hi Flow |