



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

December 6, 2010

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

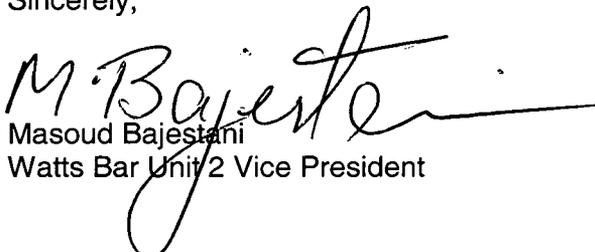
Subject: Watts Bar Nuclear Plant (WBN) Unit 2 – Submittal of Pre-op Test Instruction

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

PTI NUMBER	Rev.	TITLE
2-PTI-030J-01	0	Containment Purge

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

Sincerely,


Masoud Bajestani
Watts Bar Unit 2 Vice President

A034
D030
NRR

U.S. Nuclear Regulatory Commission
Page 2
December 6, 2010

cc (Enclosure):

U. S. Nuclear Regulatory Commission
Region II
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NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

WATTS BAR NUCLEAR PLANT
UNIT 2 STARTUP

TITLE: Containment Purge

Instruction No: 2-PTI-030J-01

Revision No: 0000

PREPARED BY: Keith Jones *Keith Jones* DATE 10-21-10

PRINT NAME/ SIGNATURE

REVIEWED BY: Bethany Merriman *Bethany Merriman* DATE 10-21-10

PRINT NAME/ SIGNATURE

INSTRUCTION APPROVAL

JTG MEETING NO: 2-10-D11

JTG CHAIRMAN: *[Signature]* DATE 11/23/10

APPROVED BY: *[Signature]* DATE 11/23/10

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	<i>11/29/10</i>	ALL	Initial issue - This procedure is written using the Unit 1 PTI-030I-01 Rev 1 as a guide.

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1.0 INTRODUCTION

1.1 Test Objectives

- A. Demonstrate proper operation of the Containment Purge System Isolation Valves and Dampers.
- B. Demonstrate proper operation of the Containment Purge System Supply and Exhaust Fans.

1.2 Scope

This test demonstrates the operability of the Unit 2 Containment Purge System to ensure the following:

- A. Containment Purge Valves and Dampers:
 - 1. The Containment Purge Valves operate correctly from handswitches in the Main Control Room and Indicating Lights indicate correct status.
 - 2. The required Containment Purge valves close upon receipt of a Containment Ventilation Isolation (CVI) signal and remain closed upon reset of that signal.
 - 3. The required Containment Purge dampers close upon receipt of a simulated Auxiliary Building Isolation (ABI) signal.
 - 4. The required Containment Purge valves and dampers stroke to their safety-function position in within the required time.
 - 5. The required Containment Purge valves can be closed from outside the Main Control Room

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1.2 Scope (continued)

B. The Containment Purge Supply and Exhaust Fans:

1. The Containment Purge fans operate correctly from local and Main Control Room handswitches and Indication Lights indicate correct status.
2. The required dampers open and close with Containment Purge Fan start and stop.
3. The Containment Purge supply and exhaust fans stop upon receipt of a Containment Ventilation Isolation (CVI) signal and remain off upon reset of that signal.
4. The Containment Purge supply and exhaust fans stop upon receipt of a simulated Auxiliary Building Isolation (ABI) signal and remain off upon reset of that signal.
5. The Containment Purge Supply and Exhaust fans stop on smoke detection in the Auxiliary Building air intake or in their respective Purge exhaust ducts.
6. The Containment Purge supply and exhaust fans maintain required air flows.

NOTE

Containment Purge Filter Testing is performed in 2-PTI-030J-02, Containment Purge Filter Test.

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2.0 REFERENCES

2.1 Performance References

- A. SMP-9.0, Conduct of Test
- B. GTM-05, HVAC Air Balance
- C. SOI-30.05, Auxiliary Bldg HVAC Systems

2.2 Developmental References

- A. Final Safety Analysis Report, Amendment 100
 - 1. FSAR Section 9.4.6, Reactor Building Purge Ventilating System (RBPVS)
 - 2. FSAR Table 14.2-1, Sheets 38 & 39, Containment Ventilation System Test Summary
 - 3. FSAR Table 14.2-1, Sheet 83, Containment Isolation System Test Summary
- B. Drawings
 - 1. Flow Diagrams
 - a. 2-47W866-1, Rev 2, HEATING AND VENTILATION AIR FLOW
DRA 53617-011, Rev 0
 - b. 2-47W866-11, Rev 0, HEATING, COOLING, & VENTILATING
AIR FLOW
 - 2. Electrical
 - a. 2-45W760-30-16, Rev 0, VENTILATING SYSTEM SCHEMATIC
DIAGRAMS
FCR 55967-A, Rev 0
 - b. 2-45W600-30-7, Rev 1, VENTILATING SYSTEM SCHEMATIC
DIAGRAMS
DRA 54172-185, Rev 0

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2.2 Developmental References (continued)

- c. 2-45W600-30-8, Rev 0, VENTILATING SYSTEM SCHEMATIC DIAGRAMS
DRA 54172-358, Rev 0
DRA 54172-359, Rev 0
DRA 54172-360, Rev 0
DRA 54172-361, Rev 0
- d. 2-45W600-30-9, Rev 0, VENTILATING SYSTEM SCHEMATIC DIAGRAMS
- e. 2-45W600-30-11, Rev 0, VENTILATING SYSTEM SCHEMATIC DIAGRAMS
DRA 54172-350, Rev 0
DRA 54172-351, Rev 0
DRA 54172-352, Rev 0
DRA 54172-353, Rev 0
DRA 54172-354, Rev 0
- f. 2-45W600-30-12, Rev 0, VENTILATING SYSTEM SCHEMATIC DIAGRAMS
DRA 54172-355, Rev 0
DRA 54172-356, Rev 0
DRA 54172-357, Rev 0
- g. 1-45W600-30-4, Rev 26, VENTILATING SYSTEM SCHEMATIC DIAGRAM
DCA 55991-006, Rev 0
DCA 55991-007, Rev 0
- h. 2-45W600-57-4, Rev 0, SEPERATION & MISC AUX RELAYS SCHEMATIC DIAGRAM
DRA 54172-216, Rev 0
DRA 54172-217, Rev 0
- i. 2-45W600-57-7, Rev 0, SEPERATION & MISC AUX RELAYS SCHEMATIC DIAGRAMS
- j. 1-45W600-26-5, Rev 6, HIGH PRESSURE FIRE PROTECTION SCHEMATIC DIAGRAMS
- k. 2-45W600-26-8, Rev 0, HIGH PRESS FIRE PROTECTION SYS SCHEMATIC DIAGRAMS

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2.2 Developmental References (continued)

- l. 1-45W600-90-1, Rev 22, RADIATION MONITORING SYSTEM SCHEMATIC DIAGRAMS
 DCA 53037-016, Rev 0
 DCA 53037-031, Rev 0
- m. 2-45W755-1, Rev 0, 480V REACTOR VENT BD 2A-A SINGLE LINE
- n. 2-45W755-3, Rev 0. 480V REACTOR VENT BD 2B-B SINGLE LINE
- o. 45W2756-3, Rev 4, 480V REACTOR VENT BD 2B-B CONNECTION DIAGRAM
 FCR 55967-A, Rev 0
 DRA 54172-219, Rev 0
- p. 2-45W2630-105, MISCELLANEOUS VALVES CONNECTION DIAGRAM, [Later]
 DRA 54172-269, Rev 0
 DRA 54172-270, Rev 0
 DRA 54172-271, Rev 0
 DRA 54172-272, Rev 0
- q. 45N1688-4 (AC), Rev AAE, SEPERATION AUX RELAY PNL 1-R-73 CONNECTION DIAGRAM
 DCA 55991-008, Rev 0
- r. 45N1693-4 (AC), Rev AAC, SEPERATION AUX RELAY PNL 1-R-78 CONNECTION DIAGRAM
 DCA 55991-011, Rev 0
- s. 45N2688-4, Rev 16, SEPERATION AUX RELAY PNL 2-R-73 CONNECTION DIAGRAM
 FCR 55967-A, Rev 0
- t. 45N2691-4, Rev 7, SEPERATION AUX RELAY PNL 2-R-76 CONNECTION DIAGRAMS
 FCR 55967-A, Rev 0
- u. 45N2693-3, Rev 16, SEPERATION AUX RELAY PNL 2-R-78 CONNECTION DIAGRAMS
 FCR 55967-A, Rev 0

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2.2 Developmental References (continued)

- v. 45N2676-3, Rev 1, SOLID STATE PROTECTION SYSTEM TRAIN A CONNECTION DIAGRAM
- w. 45N2677-3, Rev 1, SOLID STATE PROTECTION SYSTEM TRAIN B CONNECTION DIAGRAM
- x. 45W1699-29 (AC), Rev J, CO2 FIRE PROTECTION SYSTEM CONNECTION DIAGRAM
- y. 45W1699-31 (AC), Rev N, CO2 FIRE PROTECTION SYSTEM CONNECTION DIAGRAM

3. Logic/Control

- a. 2-47W610-30-1, Rev 1, ELECTRICAL CONTROL DIAGRAM VENTILATION SYSTEM
DRA 54172-397, Rev 0
- b. 2-47W611-30-1, Rev 1, ELECTRICAL LOGIC DIAGRAM VENTILATION SYSTEM
DRA 54172-401, Rev 0
DRA 54172-402, Rev 0
- c. 2-47W611-88-1, Rev 1, ELECTRICAL LOGIC DIAGRAM CONTAINMENT ISOLATION
DRA 52341-024, Rev 0
DRA 52341-069, Rev 0

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2.2 Developmental References (continued)

4. Other

- a. 2-47B601-55-1, ELECTRICAL INSTRUMENT TABULATION, [Later] DRA 52453-04, Rev 0
- b. 2-47B601-55-2, ELECTRICAL INSTRUMENT TABULATION, [Later] DRA 52453-05, Rev 0
- c. 2-47B601-55-3, ELECTRICAL INSTRUMENT TABULATION, [Later] DRA 52453-06, Rev 0
- d. 2-47B601-55-4, ELECTRICAL INSTRUMENT TABULATION, [Later] DRA 52453-07, Rev 0
- e. 2-45B655-1C, Rev 0, MAIN CONTROL ROOM ANNUNCIATOR INPUTS WINDOW BOX XA-55-1C
- f. 2-45B655-E1C, Rev 0, ANNUNCIATOR WINDOW BOX XA-55-1C ENGRAVING

C. Documents

1. WBN2-30RB-4002, Rev 1, Reactor Building Ventilation System
2. 2-TSD-30J-1, Rev 1, Reactor Building Purge Air System
3. 2-TSD-88-5, Rev 1, Containment Isolation System
4. G-37, Rev 4, Testing and Balancing of HVAC Systems During Installation, Modification, and Maintenance
5. GTI-02, Rev 0, Air Operated Valve/Damper Functional Test
6. 2-PTI-064-01, Rev 0, Local Leak Rate Testing
7. 2-PTI-030J-02, Containment Purge Filter Test (Draft)
8. GTM-05, HVAC Air Balance, (Draft)
9. SOI-30.05, Rev 46, Auxiliary Bldg HVAC Systems

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3.0 PRECAUTIONS AND NOTES

- A. Standard precautions shall be followed for working around energized electrical equipment in accordance with TVA Safety 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. Component tags and labels may differ slightly (abbreviations, punctuation, letter case, etc.) from the description given in this test. If this situation occurs, it shall not be considered a test deficiency or procedure deviation. It shall be documented in the CTL and reconciled by way of a plant labeling request or drawing discrepancy or single-line and date typo change in the procedure as appropriate.
- D. IF/THEN steps may be marked N/A if stated condition does not exist.
- E. 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.
- F. All terminal points and connections are to be considered energized. Instrumentation must be used to determine if the circuits are de-energized.
- G. Retermination of lifted leads requires that their restored bend radius is equal to or greater than the as-found condition.
- H. All open problems are to be tracked by a corrective action document and entered on the appropriate system punchlist.
- I. 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.
- J. Observe all Radiation Protection (RP) requirements when working in or near contaminated areas.

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3.0 PRECAUTIONS AND NOTES (continued)

- K. Vibration testing of this system is performed during the GTM-05, HVAC Air Balance for this system
- L. During the performance of this procedure visual observation of air handlers and ductwork is required. This includes steady-state and transient operations (fan starts and stops) with visual confirmation that vibration is not excessive.
- M. To verify that transient conditions are not causing excessive vibration, observe components (duct, dampers, air handlers, etc) during the transient, as is practical. If not practical to observe during the transient, verify after the transient that no damage has occurred.
- N. If the vibration is determined to be excessive the Test Engineer shall initiate a Test Deficiency Notice (TDN) and notify Nuclear Engineering (NE).
- O. Portions of this test will require both local (at the valve) and remote (at position indication lights) valve/damper stroke timing. Local stroke timing begins with the initiating signal and is concluded with the completion of valve stem or damper actuator movement. Remote stroke timing begins with the initiating signal and is concluded with the position indication lights status change.
- P. Maximum opening position for 2-FCV-30-14, -15, -16, -17, -56, and -57 is 50°, and is set during the performance of GTI-02, Air Operated Valve/Damper Functional Test for those valves.
- Q. Local Leak Rate Testing of the primary containment isolation valves is performed as part of 2-PTI-064-01, Local Leak Rate Testing.
- R. Auxiliary Building General Ventilation Supply and Exhaust Fans 2A and 2B (which are Unit 1 controlled equipment) should be secured before simulated smoke detection in Unit 2 Auxiliary Building air intake.
- S. Operation of 2-FCV-30-54, -61, -62, -213, or -216 creates a local PERSONNEL HAZARD while valve is in motion due to the location of the valve components. An operator should be sent to ensure safe conditions during operation of these valves.
- T. Applicable Chemistry requirements must be met in order to operate the Containment Purge Fans. Contact Chemistry prior to operation of the Containment Purge Exhaust Fans. See step 4.4[4].

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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. _____

[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 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. _____

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4.1 Preliminary Actions (continued)

[5] **EVALUATE** open punch list 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 _____

C. SubSection 6.3 _____

D. SubSection 6.4 _____

E. SubSection 6.5 _____

[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 _____

[7] **ENSURE** GTM-05, HVAC Air Balance, has been submitted to the JTG for concurrence that it adequately satisfies the requirements of this instruction.

JTG Meeting Number: _____

[8] **ATTACH** completed GTM-05, HVAC Air Balance package for system 30J to this instruction. _____

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4.1 Preliminary Actions (continued)

[9] **ENSURE** outstanding Design Change Notices (DCNs), Engineering Document Construction Releases (EDCRs) or Temporary Alterations (TAs) do NOT adversely impact testing, **AND**

ATTACH documentation of DCNs, EDCRs, and TAs that were reviewed to the data package.

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

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

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

[11] **ENSURE** components contained within the boundaries of this test are under the jurisdictional control of Preoperational Startup Engineering (PSE), and/or Plant Operations. _____

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4.1 Preliminary Actions (continued)

[12] **REVIEW** preventive maintenance records for components within the scope of this test, **AND**

VERIFY no conditions exist that will impact test performance.

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

[13] **PERFORM** a pretest walkdown on equipment to be tested to ensure no conditions exist that will impact test performance.

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

[14] **CONDUCT** a pretest briefing with Test and Operations personnel in accordance with SMP-9.0.

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

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4.1 Preliminary Actions (continued)

[15] **ENSURE** that communications are available for areas where testing is to be conducted.

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

[16] **VERIFY** appropriate means are in place to isolate the Unit 2 Containment Purge system in the event of a valid Auxiliary Building Isolation (ABI) signal.

- A. SubSection 6.1 _____
- B. SubSection 6.2 _____
- C. SubSection 6.3 _____
- D. SubSection 6.4 _____

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

[1] **OBTAIN** the following M&TE or equivalent, **AND**

COMPLETE the following table:

DESCRIPTION	MINIMUM RANGE	REQUIRED ACCURACY	M&TE ID NUMBER	CALIBRATION DUE DATE
Digital Stopwatch A	0-60 min	±0.1 sec/hr		N/A
Digital Stopwatch B	0-60 min	±0.1 sec/hr		N/A
Digital Stopwatch C	0-60 min	±0.1 sec/hr		N/A
Digital Stopwatch D	0-60 min	±0.1 sec/hr		N/A

NOTE

Digital stopwatches are calibrated one time only and do not require recalibration.

[2] **ENSURE** the following are available: _____

A. Hand-held jumper [1] _____

B. Switched jumpers [4] _____

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4.3 Field Preparations

[1] **ENSURE** the following systems are operable and have been placed in service to the extent necessary to perform this test:

- A. System 13, Fire Detection System _____
- B. System 32, Control Air _____
- C. System 55, Annunciator and Sequential Events Recording System _____
- D. System 90, Radiation Monitoring. _____
- E. System 99, Reactor Protection System _____
- F. System 232, 480V Reactor Vent Boards _____
- G. System 235, 120V AC Vital Power System _____
- H. System 236, 125V DC Vital Power System _____

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-5-25, 2-TBK-55-26, 2-TBK-55-27, and 2-TBK-55-28 will not have individual switches or a master switch.

[2] **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:

- A. 2-XA-55-1C-19B, 125 DC VITAL BATT BD III
ABNORMAL _____
- B. 2-XA-55-1C-20B, 125 DC VITAL BATT BD IV
ABNORMAL _____

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4.3 Field Preparations (continued)

[3] **ENSURE** the following Radiation Monitors are in service:

A. 2-RE-90-400, SHIELD BLDG VT MON SYS SAMPLE
DETECTION SKID _____

B. 2-RE-90-130, CNTMT PURGE AIR EXH RADIATION
MONITOR _____

C. 2-RE-90-131, CNTMT PURGE AIR EXH RADIATION
MONITOR _____

[4] **ENSURE** fire detector zones 100, 101, 138 and 139 are
CLEAR as indicated by the Pyrotronics control panel in the
Main Control Room for each applicable section.

A. SubSection 6.2 _____

B. SubSection 6.3 _____

C. SubSection 6.4 _____

[5] **VERIFY** there is no Auxiliary Building Isolation (ABI) or High
Radiation in Refuel Area Signals present by:

A. The ABI window NOT lit on either the TR-A or TR-B
MMASTER ISOL SIGNAL STATUS PNLs (Window 5 on
1-XX-55-6C and 1-XX-55-6D) on 1-M-6. _____

B. No high rad alarm for 0-RM-90-102 and -103, annunciator
window 184B on 0-M-12. _____

[6] **VERIFY** there are no Unit 2 Containment Vent Isolation (CVI)
Signals present by the CVI window NOT lit on either the TR-A
or TR-B MASTER ISOL SIGNAL STATUS PNLs (Window 2 on
2-XX-55-6C and 2-XX-55-6D) on 2-M-6. _____

[7] **ENSURE** system switches are configured in accordance with
Appendix C, Switch Lineup. _____

[8] **ENSURE** system breakers and fuses are configured in
accordance with Appendix D, Electrical Lineup. _____

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4.3 Field Preparations (continued)

[9] **INSTALL** switched jumpers at the following locations, **AND**

ENSURE that the jumper switches are ON.

A. TB646, between Pt. 1 and Pt. 2 (Wire CPD8 and CPD11)
in Auxiliary Relay Panel 2-R-76 (45N2691-4).

A. Installed

1st

CV

B. Switch ON

B. TB646, between Pt. 3 and Pt. 4 (Wire CPD9 and CPD10)
in Auxiliary Relay Panel 2-R-76 (45N2691-4)

A. Installed

1st

CV

B. Switch ON

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4.4 Approvals and Notifications

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

Preoperational Startup Manager Signature	Date
---	------

- [2] **OBTAIN** the Unit 2 Supervisor's (US/SRO) or Shift Manager's (SM) authorization.

Unit 2 US/SRO/SM Signature	Date
----------------------------	------

- [3] **OBTAIN** the Unit 1 Supervisor's (US/SRO) or Shift Manager's (SM) authorization. SubSection 6.4 requires access into Unit 1 equipment (0-L-609 and 0-L-623) for lifting and landing of wires and placement of handheld jumpers.

Unit 1 US/SRO/SM Signature	Date
----------------------------	------

- [4] **NOTIFY** Chemistry (Chem Lab) that a Containment Purge Release Package will be needed to perform Subsections 6.2, 6.3, and 6.4 of this test.

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5.0 ACCEPTANCE CRITERIA

A. Containment Purge System Isolation Valves and Dampers

- The following valves and dampers close in the required times:

Valve/Damper	Step
Stroke Close time \leq 4.0 seconds	
2-FCV-30-7	6.1.2[6]
2-FCV-30-8	6.1.3[6]
2-FCV-30-9	6.1.4[6]
2-FCV-30-10	6.1.5[6]
2-FCV-30-14	6.1.6[6]
2-FCV-30-15	6.1.7[6]
2-FCV-30-16	6.1.10[6]
2-FCV-30-17	6.1.11[6]
2-FCV-30-19	6.1.8[6]
2-FCV-30-20	6.1.9[6]
2-FCV-30-37	6.1.12[6]
2-FCV-30-40	6.1.13[6]
2-FCV-30-50	6.1.3[9]
2-FCV-30-51	6.1.2[9]
2-FCV-30-52	6.1.5[9]
2-FCV-30-53	6.1.4[9]
2-FCV-30-56	6.1.6[9]
2-FCV-30-57	6.1.7[9]
2-FCV-30-58	6.1.8[9]
2-FCV-30-59	6.1.9[9]
Stroke Close time \leq 10.7 seconds	
2-FCV-30-2	6.1.16[6]
2-FCV-30-5	6.1.17[6]
2-FCV-30-12	6.1.14[6]
2-FCV-30-54	6.1.15[6]
2-FCV-30-61	6.1.18[6]
2-FCV-30-62	6.1.19[6]
Stroke Close time \leq 30.0 seconds	
2-FCO-30-294	6.1.22[14]
2-FCO-30-295	6.1.23[14]

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5.0 ACCEPTANCE CRITERIA (continued)

2. The following valves' and dampers' manual controls and Control Room indications operate correctly.

Valve/Damper	Manual Controls and Indications (Main Control Room and/or local)	Can be closed from outside the Main Control Room (Appx R Fire Safe Shutdown)
2-FCV-30-2	SubSection 6.1.16	N/A
2-FCV-30-5	SubSection 6.1.17	N/A
2-FCV-30-7	SubSection 6.1.2	SubSection 6.1.24
2-FCV-30-8	SubSection 6.1.3	SubSection 6.1.25
2-FCV-30-9	SubSection 6.1.4	SubSection 6.1.25
2-FCV-30-10	SubSection 6.1.5	SubSection 6.1.24
2-FCV-30-12	SubSection 6.1.14	N/A
2-FCV-30-14	SubSection 6.1.6	SubSection 6.1.24
2-FCV-30-15	SubSection 6.1.7	SubSection 6.1.25
2-FCV-30-16	SubSection 6.1.10	SubSection 6.1.25
2-FCV-30-17	SubSection 6.1.11	SubSection 6.1.24
2-FCV-30-19	SubSection 6.1.8	SubSection 6.1.25
2-FCV-30-20	SubSection 6.1.9	SubSection 6.1.24
2-FCV-30-37	SubSection 6.1.12	SubSection 6.1.25
2-FCV-30-40	SubSection 6.1.13	SubSection 6.1.24
2-FCV-30-50	SubSection 6.1.3	SubSection 6.1.25
2-FCV-30-51	SubSection 6.1.2	SubSection 6.1.24
2-FCV-30-52	SubSection 6.1.5	SubSection 6.1.24
2-FCV-30-53	SubSection 6.1.4	SubSection 6.1.25
2-FCV-30-54	SubSection 6.1.15	N/A
2-FCV-30-56	SubSection 6.1.6	SubSection 6.1.24
2-FCV-30-57	SubSection 6.1.7	SubSection 6.1.25
2-FCV-30-58	SubSection 6.1.8	SubSection 6.1.25
2-FCV-30-59	SubSection 6.1.9	SubSection 6.1.24
2-FCV-30-61	SubSection 6.1.18	N/A
2-FCV-30-62	SubSection 6.1.19	N/A
2-FCV-30-213	SubSection 6.1.20	N/A
2-FCV-30-216	SubSection 6.1.21	N/A
2-FCO-30-294	SubSection 6.1.22	N/A
2-FCO-30-295	SubSection 6.1.23	N/A

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5.0 ACCEPTANCE CRITERIA (continued)

3. The following valves and dampers respond appropriately to Engineered Safety Feature Actuation System (ESFAS) signals.

Valve/Damper	Containment Vent Isolation (CVI)		Closes on ABI
	Closes on CVI	Remains closed after CVI is reset.	
2-FCV-30-2	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCV-30-5	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCV-30-7	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-8	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-9	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-10	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-12	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCV-30-14	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-15	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-16	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-17	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-19	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-20	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-37	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-40	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-50	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-51	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-52	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-53	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-54	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCV-30-56	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-57	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-58	6.3.3[13]B	6.3.3[15]B	N/A
2-FCV-30-59	6.3.2[13]A	6.3.2[15]A	N/A
2-FCV-30-61	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCV-30-62	6.3.2[13]A, 6.3.3[13]A	6.3.2[15]A, 6.3.3[15]A	N/A
2-FCO-30-294*	N/A	N/A	6.1.22[10]
2-FCO-30-295*	N/A	N/A	6.1.23[10]

* 2-FCO-30-294 & 295 open/close with Containment Purge Fans start/stop. The Purge Fans stop on a CVI signal. See Acceptance Criteria 5.0B.1 and 5.0B.4.

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5.0 ACCEPTANCE CRITERIA (continued)

4. Due to the design of the Containment Purge Isolation Valves, placing the Handswitch to the CLOSE position removes power to the solenoid air valve, causing it to vent the control air and depressurize the valve actuator. In effect, this tests the valves' response to a loss of electrical power or control air. Valve response to Handswitch manipulation is performed in SubSection 6.1 as listed in Acceptance Criteria 5.0A.2.

B. Containment Purge System Supply and Exhaust Fans

1. Containment Purge Supply Fans respond appropriately to Engineered Safety Feature Actuation System (ESFAS) signals.

Fan	Containment Vent Isolation (CVI)		Stops on ABI
	Stops on CVI	Remains stopped after CVI is reset.	
2-FAN-30-1	6.3.2[13]B, 6.3.3[13]C	6.3.2[15]B, 6.3.3[15]C	6.3.4[8]
2-FAN-30-4	6.3.2[13]C, 6.3.3[13]D	6.3.2[15]C, 6.3.3[15]D	6.3.5[9]
2-FAN-30-11	6.3.2[13]D, 6.3.3[13]E	6.3.2[15]D, 6.3.3[15]E	6.3.5[10]

2. Containment Purge Supply and Exhaust Fans' manual controls, interlocks, and Control Room indications operate correctly.

Fan	Manual Controls and Indications (Main Control Room and/or local)	Interlocks: Corresponding Supply and Exhaust Fans must operate together.
2-FAN-30-1	SubSection 6.2.2	SubSection 6.2.5
2-FAN-30-1E	SubSection 6.2.2	SubSection 6.2.5
2-FAN-30-4	SubSection 6.2.3	SubSection 6.2.5
2-FAN-30-4E	SubSection 6.2.3	SubSection 6.2.5
2-FAN-30-11	SubSection 6.2.4	SubSection 6.2.5
2-FAN-30-11E	SubSection 6.2.4	SubSection 6.2.5

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5.0 ACCEPTANCE CRITERIA (continued)

3. Containment Purge Supply Fans stop on smoke detection in the Unit 2 Auxiliary Building Air Intake or in their respective purge exhaust duct.

Fan	Smoke detection in Purge Exhaust Duct		Smoke detection in U2 Aux Bldg Air Intake (Zone 138 and 139)
	Zone 100	Zone 101	
2-FAN-30-1	N/A	6.4.2[5]	6.4.3[8]
2-FAN-30-4	6.4.2[10]	N/A	6.4.3[9]
2-FAN-30-11	N/A	N/A	6.4.3[10]

4. The following dampers open/close on Purge Supply Fan starts/stops.

Damper	Open/Close on Purge Supply Fan 2A Start/Stop	Open/Close on Purge Supply Fan 2B Start/Stop	Open/Close on Instr Rm Supply Fan Start/Stop
2-FCO-30-294	6.2.2[4]B, 6.2.2[5]B	6.2.3[4]B, 6.2.3[5]B	6.2.4[4]B, 6.2.4[5]B
2-FCO-30-295	6.2.2[4]B, 6.2.2[5]B	6.2.3[4]B, 6.2.3[5]B	6.2.4[4]B, 6.2.4[5]B
2-FCO-30-1A	6.2.2[4], 6.2.2[5]	N/A	N/A
2-FCO-30-1B	6.2.2[4], 6.2.2[5]	N/A	N/A
2-FCO-30-4A	N/A	6.2.3[4], 6.2.3[5]	N/A
2-FCO-30-4B	N/A	6.2.3[4], 6.2.3[5]	N/A
2-FCO-30-11A	N/A	N/A	6.2.4[4], 6.2.4[5]
2-FCO-30-11B	N/A	N/A	6.2.4[4], 6.2.4[5]

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5.0 ACCEPTANCE CRITERIA (continued)

5. The Containment Purge Fans provide the required air flows.

NOTES	
1)	The Acceptance Criteria in the following steps are minimum design flows.
2)	2-PTI-30J-02, Containment Purge Filter Test, will verify that each individual Purge Fan meets its design/rated flow of 14,000 CFM.

Purge Supply Fans 2A and 2B (2-FAN-30-1 & -4)	
Minimum Combined Flow: 22,949 CFM	6.5[3]
Purge Exhaust Fans 2A and 2B (2-FAN-30-1E & -4E)	
Minimum Combined Flow: 22,949 CFM	6.5[5]

Incore Instrument Room Supply Fan (2-FAN-30-11)	
Minimum Flow: 650 CFM	6.5[7]
Incore Instrument Room Exhaust Fan (2-FAN-30-11E)	
Minimum Flow: 540 CFM	6.5[9]

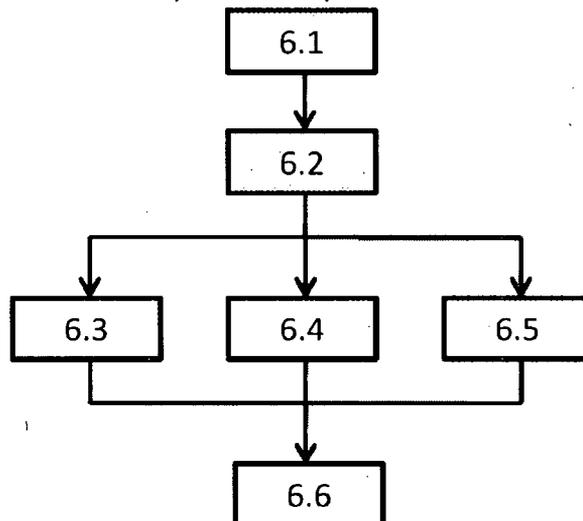
Incore Instrument Room Supply/Exhaust Differential Flow	
Minimum Δ Flow: 110 CFM	6.5[10]

Incore Instrument Room Differential Pressure	
Incore Instrument Room Supply and Exhaust Fan can maintain the Incore Instrument Room at a positive pressure relative to surrounding areas in Lower Containment.	6.5[12]

6.0 PERFORMANCE

NOTES

- 1) The Sections of this test shall be performed per the flow chart below:



- 2) The order of section performance for the above flow diagram is as follows: Section 6.1, followed by Section 6.2, followed by Sections 6.3, 6.4, 6.5, performed in any order, and concluding with Section 6.6.
- 3) Containment purge valves, fans, and dampers may have status indication lights in any or all of three locations in the Main Control Room:
- On 2-M-9 at their respective Handswitch.
 - On 2-M-9, as part of the Containment Ventilation Mimic.
 - On 2-M-6, on Train A (2-XX-55-6E) or Train B (2-XX-55-6F) CONTAINMENT ISOL STATUS PNL, hereafter abbreviated in this instruction as CISP.

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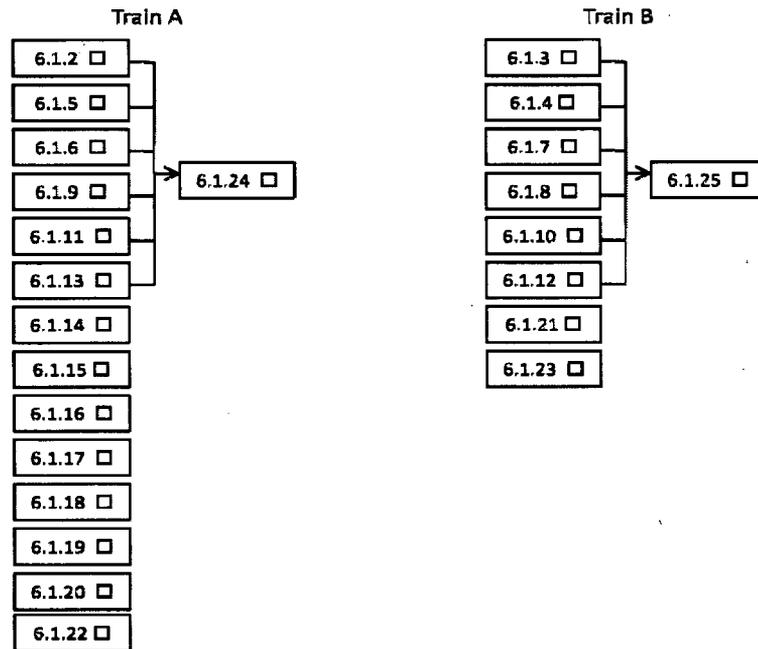
6.1 Valves and Dampers Functional Test

6.1.1 Preliminary Actions

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

NOTES

1) The SubSections of this Section shall be performed per the flow chart below.



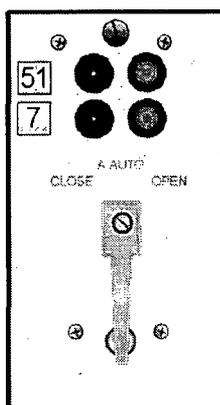
- 2) Unless otherwise specified, SubSections 6.1.2 through 6.1.25 may be performed in any order with the steps within performed in the order written. The flowchart above may be used as a placekeeping tool throughout the performance of Section 6.1.
- 3) Most SubSections within Section 6.1 require valve/damper stroke timing, both locally at the valve/damper and remotely from indication lights in the Main Control Room.
 - Local valve stroke timing begins with the initiating signal and concludes with the completion of valve stem/damper actuator movement.
 - Remote valve stroke timing begins with the initiating signal and concludes with the position indication lights status change (Red Light changes from ON to OFF).¹⁾

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6.1.2 2-FCV-30-7 and 2-FCV-30-51, Upper Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-7 and 2-FCV-30-51 are both controlled by 2-HS-30-7. Both valves have status indication lights on this Handswitch which are indicated by the numbers "7" and "51," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-7, [2-M-9]:

- Green Light for 7 OFF _____
- Red Light for 7 ON _____
- Green Light for 51 OFF _____
- Red Light for 51 ON _____

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6.1.2 2-FCV-30-7 and 2-FCV-30-51, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-7, Green Light OFF _____
- FCV-30-7, Red Light ON _____
- FCV-30-51, Green Light OFF _____
- FCV-30-51, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 10, FCV-30-7, Green Light OFF _____
- Window 10, FCV-30-7, Red Light ON _____
- Window 53, FCV-30-51, Green Light OFF _____
- Window 53, FCV-30-51, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-7, UPPER COMPT PURGE ISOL VALVE, [Annulus/799 AZ 286°], is OPEN. _____
- Valve 2-FCV-30-51, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, [Annulus/749 AZ 290°], is OPEN. _____

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6.1.2 2-FCV-30-7 and 2-FCV-30-51, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-7, [2-M-9]:

- Green Light for 7 ON _____
- Red Light for 7 OFF _____
- Green Light for 51 ON _____
- Red Light for 51 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-7, Green Light ON _____
- FCV-30-7, Red Light OFF _____
- FCV-30-51, Green Light ON _____
- FCV-30-51, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 10, FCV-30-7, Green Light ON _____
- Window 10, FCV-30-7, Red Light OFF _____
- Window 53, FCV-30-51, Green Light ON _____
- Window 53, FCV-30-51, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-7, UPPER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-51, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.2 2-FCV-30-7 and 2-FCV-30-51, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.2[4], 6.1.2[5], & 6.1.2[6] may be performed concurrently with steps 6.1.2[7], 6.1.2[8], & 6.1.2[9].

[4] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to OPEN, **AND**

VERIFY Valve 2-FCV-30-7, UPPER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-7, UPPER COMPT PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-7 indication lights (Red Light for 7 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-7, UPPER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum

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6.1.2 2-FCV-30-7 and 2-FCV-30-51, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to OPEN, **AND**

VERIFY Valve 2-FCV-30-51, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-51, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-7 indication lights (Red Light for 51 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-51, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[10] **VERIFY** successful completion of this SubSection 6.1.2. **(Acc Crit)** _____

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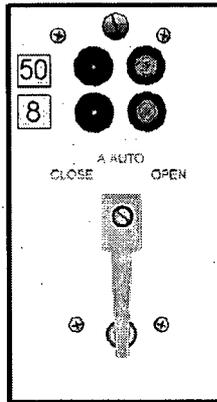
Data Package: Page ____ of ____

Date _____

6.1.3 2-FCV-30-8 and 2-FCV-30-50, Upper Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-8 and 2-FCV-30-50 are both controlled by 2-HS-30-8. Both valves have status indication lights on this Handswitch which are indicated by the numbers "8" and "50," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to OPEN, **AND** _____

VERIFY the following:

A. On 2-HS-30-8, [2-M-9]:

- Green Light for 8 OFF _____
- Red Light for 8 ON _____
- Green Light for 50 OFF _____
- Red Light for 50 ON _____

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6.1.3 2-FCV-30-8 and 2-FCV-30-50, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-8, Green Light OFF _____
- FCV-30-8, Red Light ON _____
- FCV-30-50, Green Light OFF _____
- FCV-30-50, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 10, FCV-30-8, Green Light OFF _____
- Window 10, FCV-30-8, Red Light ON _____
- Window 53, FCV-30-50, Green Light OFF _____
- Window 53, FCV-30-50, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-8, UPPER COMPT PURGE ISOL VALVE, [Upr Cntmt/799 AZ 289°], is OPEN. _____
- Valve 2-FCV-30-50, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, [Lwr Cntmt/749 AZ 293° (Acc Rm 4)], is OPEN. _____

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6.1.3 2-FCV-30-8 and 2-FCV-30-50, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-8, [2-M-9]:

- Green Light for 8 ON _____
- Red Light for 8 OFF _____
- Green Light for 50 ON _____
- Red Light for 50 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-8, Green Light ON _____
- FCV-30-8, Red Light OFF _____
- FCV-30-50, Green Light ON _____
- FCV-30-50, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 10, FCV-30-8, Green Light ON _____
- Window 10, FCV-30-8, Red Light OFF _____
- Window 53, FCV-30-50, Green Light ON _____
- Window 53, FCV-30-50, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-8, UPPER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-50, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.3 2-FCV-30-8 and 2-FCV-30-50, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.3[4], 6.1.3[5], & 6.1.3[6] may be performed concurrently with steps 6.1.3[7], 6.1.3[8], & 6.1.3[9].

[4] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to OPEN, **AND**

VERIFY Valve 2-FCV-30-8, UPPER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-8 UPPER COMPT PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-8 indication lights (Red Light for 8 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-8, UPPER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

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6.1.3 2-FCV-30-8 and 2-FCV-30-50, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to OPEN, **AND**

VERIFY Valve 2-FCV-30-50, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-50, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-8 indication lights (Red Light for 50 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-50, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[10] **VERIFY** successful completion of this SubSection 6.1.3. (Acc Crit) _____

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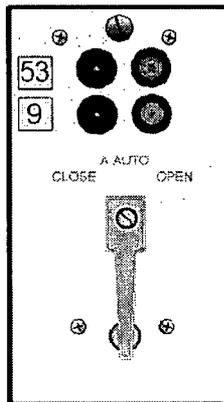
Data Package: Page ____ of ____

Date _____

6.1.4 2-FCV-30-9 and 2-FCV-30-53, Upper Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-9 and 2-FCV-30-53 are both controlled by 2-HS-30-9. Both valves have status indication lights on this Handswitch which are indicated by the numbers "9" and "53," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-9, [2-M-9]:

- Green Light for 9 OFF _____
- Red Light for 9 ON _____
- Green Light for 53 OFF _____
- Red Light for 53 ON _____

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6.1.4 2-FCV-30-9 and 2-FCV-30-53, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-9, Green Light OFF _____
- FCV-30-9, Red Light ON _____
- FCV-30-53, Green Light OFF _____
- FCV-30-53, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 23, FCV-30-9, Green Light OFF _____
- Window 23, FCV-30-9, Red Light ON _____
- Window 54, FCV-30-53, Green Light OFF _____
- Window 54, FCV-30-53, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-9, UPPER COMPT PURGE ISOL VALVE, [Annulus/799 AZ 265°], is OPEN. _____
- Valve 2-FCV-30-53, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, [Annulus/751 AZ 253°], is OPEN. _____

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6.1.4 2-FCV-30-9 and 2-FCV-30-53, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-9, [2-M-9]:

- Green Light for 9 ON _____
- Red Light for 9 OFF _____
- Green Light for 53 ON _____
- Red Light for 53 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-9, Green Light ON _____
- FCV-30-9, Red Light OFF _____
- FCV-30-53, Green Light ON _____
- FCV-30-53, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 23, FCV-30-9, Green Light ON _____
- Window 23, FCV-30-9, Red Light OFF _____
- Window 54, FCV-30-53, Green Light ON _____
- Window 54, FCV-30-53, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-9, UPPER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-53, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.4 2-FCV-30-9 and 2-FCV-30-53, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.4[4], 6.1.4[5], & 6.1.4[6] may be performed concurrently with steps 6.1.4[7], 6.1.4[8], & 6.1.4[9].

[4] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to OPEN, **AND**

VERIFY Valve 2-FCV-30-9, UPPER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-9, UPPER COMPT PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-9 indication lights (Red Light for 9 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-9, UPPER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

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6.1.4 2-FCV-30-9 and 2-FCV-30-53, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to OPEN, **AND**

VERIFY Valve 2-FCV-30-53, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE 2-FCV-30-9 & 53, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-53, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-9 indication lights (Red Light for 53 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-53, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[10] **VERIFY** successful completion of this SubSection 6.1.4. **(Acc Crit)** _____

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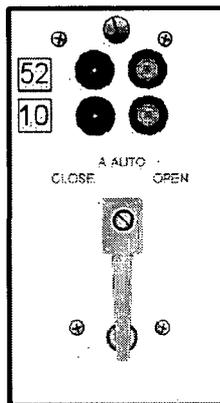
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Date _____

6.1.5 2-FCV-30-10 and 2-FCV-30-52, Upper Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-10 and 2-FCV-30-52 are both controlled by 2-HS-30-10. Both valves have status indication lights on this Handswitch which are indicated by the numbers "10" and "52," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-10, [2-M-9]:

- Green Light for 10 OFF _____
- Red Light for 10 ON _____
- Green Light for 52 OFF _____
- Red Light for 52 ON _____

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6.1.5 2-FCV-30-10 and 2-FCV-30-52, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-10, Green Light OFF _____
- FCV-30-10, Red Light ON _____
- FCV-30-52, Green Light OFF _____
- FCV-30-52, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 23, FCV-30-10, Green Light OFF _____
- Window 23, FCV-30-10, Red Light ON _____
- Window 54, FCV-30-52, Green Light OFF _____
- Window 54, FCV-30-52, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-10, UPPER COMPT PURGE ISOL VALVE, [Upr Cntmt/799 AZ 261°], is OPEN. _____
- Valve 2-FCV-30-52, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, [Lwr Cntmt/751 AZ 249° (Acc Rm 3)], is OPEN. _____

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6.1.5 2-FCV-30-10 and 2-FCV-30-52, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-10, [2-M-9]:

- Green Light for 10 ON _____
- Red Light for 10 OFF _____
- Green Light for 52 ON _____
- Red Light for 52 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-10, Green Light ON _____
- FCV-30-10, Red Light OFF _____
- FCV-30-52, Green Light ON _____
- FCV-30-52, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 23, FCV-30-10, Green Light ON _____
- Window 23, FCV-30-10, Red Light OFF _____
- Window 54, FCV-30-52, Green Light ON _____
- Window 54, FCV-30-52, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-10, UPPER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-52, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.5 2-FCV-30-10 and 2-FCV-30-52, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.5[4], 6.1.5[5], & 6.1.5[6] may be performed concurrently with steps 6.1.5[7], 6.1.5[8], & 6.1.5[9].

[4] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to OPEN, **AND**

VERIFY Valve 2-FCV-30-10, UPPER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-10 UPPER COMPT PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-10 indication lights (Red Light for 10 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-10, UPPER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

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6.1.5 2-FCV-30-10 and 2-FCV-30-52, Upper Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to OPEN, **AND**

VERIFY Valve 2-FCV-30-52, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-52, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-10 indication lights (Red Light for 52 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-52, CNTMT UPPER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[10] **VERIFY** successful completion of this SubSection 6.1.5. (Acc Crit) _____

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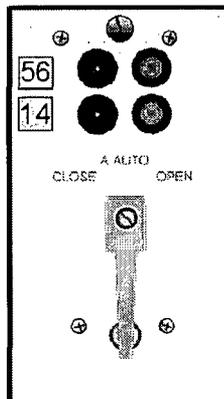
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Date _____

6.1.6 2-FCV-30-14 and 2-FCV-30-56, Lower Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-14 and 2-FCV-30-56 are both controlled by 2-HS-30-14. Both valves have status indication lights on this Handswitch which are indicated by the numbers "14" and "56," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-14, [2-M-9]:

- Green Light for 14 OFF _____
- Red Light for 14 ON _____
- Green Light for 56 OFF _____
- Red Light for 56 ON _____

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6.1.6 2-FCV-30-14 and 2-FCV-30-56, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-14, Green Light OFF _____
- FCV-30-14, Red Light ON _____
- FCV-30-56, Green Light OFF _____
- FCV-30-56, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 25, FCV-30-14, Green Light OFF _____
- Window 25, FCV-30-14, Red Light ON _____
- Window 68, FCV-30-56, Green Light OFF _____
- Window 68, FCV-30-56, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-14, LOWER COMPT PURGE ISOL VALVE, [Annulus/737 AZ 304°], is OPEN. _____
- Valve 2-FCV-30-56, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, [Lwr Cntmt/735 AZ 36° (Acc Rm 1)], is OPEN. _____

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6.1.6 2-FCV-30-14 and 2-FCV-30-56, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-14, [2-M-9]:

- Green Light for 14 ON _____
- Red Light for 14 OFF _____
- Green Light for 56 ON _____
- Red Light for 56 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-14, Green Light ON _____
- FCV-30-14, Red Light OFF _____
- FCV-30-56, Green Light ON _____
- FCV-30-56, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 25, FCV-30-14, Green Light ON _____
- Window 25, FCV-30-14, Red Light OFF _____
- Window 68, FCV-30-56, Green Light ON _____
- Window 68, FCV-30-56, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-14, LOWER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-56, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.6 2-FCV-30-14 and 2-FCV-30-56, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.6[4], 6.1.6[5], & 6.1.6[6] may be performed concurrently with steps 6.1.6[7], 6.1.6[8], & 6.1.6[9].

[4] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to OPEN, **AND**

VERIFY Valve 2-FCV-30-14, LOWER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-14 LOWER COMPT PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-14 indication lights (Red Light for 14 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-14, LOWER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

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6.1.6 2-FCV-30-14 and 2-FCV-30-56, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to OPEN, **AND**

VERIFY Valve 2-FCV-30-56, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-56, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-14 indication lights (Red Light for 56 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-56, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

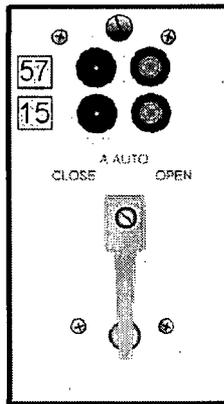
_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[10] **VERIFY** successful completion of this SubSection 6.1.6. (Acc Crit) _____

6.1.7 2-FCV-30-15 and 2-FCV-30-57, Lower Containment Purge Supply and Exhaust Isolation Valve Logic

NOTES

- 1) 2-FCV-30-15 and 2-FCV-30-57 are both controlled by 2-HS-30-15. Both valves have status indication lights on this Handswitch which are indicated by the numbers "15" and "57," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-15, [2-M-9]:

- Green Light for 15 OFF _____
- Red Light for 15 ON _____
- Green Light for 57 OFF _____
- Red Light for 57 ON _____

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6.1.7 2-FCV-30-15 and 2-FCV-30-57, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-15, Green Light OFF _____
- FCV-30-15, Red Light ON _____
- FCV-30-57, Green Light OFF _____
- FCV-30-57, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 25, FCV-30-15, Green Light OFF _____
- Window 25, FCV-30-15, Red Light ON _____
- Window 68, FCV-30-57, Green Light OFF _____
- Window 68, FCV-30-57, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-15, LOWER COMPT PURGE ISOL VALVE, [Lwr Cntmt/737 AZ 301° (Acc Rm 4)], is OPEN. _____
- Valve 2-FCV-30-57, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, [Annulus/733 AZ 36°], is OPEN. _____

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6.1.7 2-FCV-30-15 and 2-FCV-30-57, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-15, [2-M-9]:

- Green Light for 15 ON _____
- Red Light for 15 OFF _____
- Green Light for 57 ON _____
- Red Light for 57 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-15, Green Light ON _____
- FCV-30-15, Red Light OFF _____
- FCV-30-57, Green Light ON _____
- FCV-30-57, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 25, FCV-30-15, Green Light ON _____
- Window 25, FCV-30-15, Red Light OFF _____
- Window 68, FCV-30-57, Green Light ON _____
- Window 68, FCV-30-57, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-15, LOWER COMPT PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-57, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, is CLOSED. _____

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6.1.7 2-FCV-30-15 and 2-FCV-30-57, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.7[4], 6.1.7[5], & 6.1.7[6] may be performed concurrently with steps 6.1.7[7], 6.1.7[8], & 6.1.7[9].

[4] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to OPEN, **AND**

VERIFY Valve 2-FCV-30-15, LOWER COMPT PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-15 LOWER COMPT PURGE ISOL VALVE.

- A. Locally _____
- B. Remotely on 2-HS-30-15 indication lights (Red Light for 15 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-15, LOWER COMPT PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

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6.1.7 2-FCV-30-15 and 2-FCV-30-57, Lower Containment Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to OPEN, **AND**

VERIFY Valve 2-FCV-30-57, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE 2-FCV-30-15 & 57, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-57, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-15 indication lights (Red Light for 57 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-57, CNTMT LOWER COMPARTMENT EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

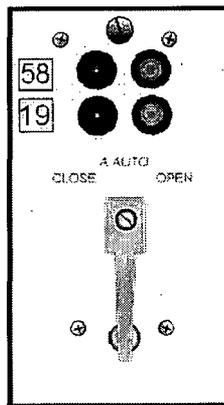
[10] **VERIFY** successful completion of this SubSection 6.1.7. (Acc Crit) _____

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**6.1.8 2-FCV-30-19 and 2-FCV-30-58, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic**

NOTES

- 1) 2-FCV-30-19 and 2-FCV-30-58 are both controlled by 2-HS-30-19. Both valves have status indication lights on this Handswitch which are indicated by the numbers "19" and "58," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-19, [2-M-9]:

- Green Light for 19 OFF _____
- Red Light for 19 ON _____
- Green Light for 57 OFF _____
- Red Light for 57 ON _____

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**6.1.8 2-FCV-30-19 and 2-FCV-30-58, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic (continued)**

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-19, Green Light OFF _____
- FCV-30-19, Red Light ON _____
- FCV-30-58, Green Light OFF _____
- FCV-30-58, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 39, FCV-30-19, Green Light OFF _____
- Window 39, FCV-30-19, Red Light ON _____
- Window 69, FCV-30-58, Green Light OFF _____
- Window 69, FCV-30-58, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-19, INCORE INSTR RM PURGE ISOL VALVE, [Annulus/728 AZ 57°], is OPEN. _____
- Valve 2-FCV-30-58, CNTMT INSTRUMENT RM EXHAUST ISOLATION, [Lwr Cntmt/739 AZ 116° (IIR)], is OPEN. _____

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**6.1.8 2-FCV-30-19 and 2-FCV-30-58, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic (continued)**

[3] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE
2-FCV-30-19 & 58, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-19, [2-M-9]:

- Green Light for 19 ON _____
- Red Light for 19 OFF _____
- Green Light for 58 ON _____
- Red Light for 58 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-19, Green Light ON _____
- FCV-30-19, Red Light OFF _____
- FCV-30-58, Green Light ON _____
- FCV-30-58, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 39, FCV-30-19, Green Light ON _____
- Window 39, FCV-30-19, Red Light OFF _____
- Window 69, FCV-30-58, Green Light ON _____
- Window 69, FCV-30-58, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-19, INCORE INSTR RM PURGE
ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-58, CNTMT INSTRUMENT ROOM
EXHAUST ISOLATION, is CLOSED. _____

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6.1.8 2-FCV-30-19 and 2-FCV-30-58, Incore Instrument Room Purge Supply and Exhaust Isolation Valve Logic (continued)

NOTE

Steps 6.1.8[4], 6.1.8[5], & 6.1.8[6] may be performed concurrently with steps 6.1.8[7], 6.1.8[8], & 6.1.8[9].

[4] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, to OPEN, **AND**

VERIFY Valve 2-FCV-30-19, INCORE INSTR RM PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-19, INCORE INSTR RM PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-19 indication lights (Red Light for 19 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-19, INCORE INSTR RM PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____

Acc Crit: 4.0 seconds maximum _____

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6.1.8 2-FCV-30-19 and 2-FCV-30-58, Incore Instrument Room Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, to OPEN, **AND**

VERIFY Valve 2-FCV-30-58, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE 2-FCV-30-19 & 58, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-58, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-19 indication lights (Red Light for 58 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-58, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

[10] **VERIFY** successful completion of this SubSection 6.1.8. **(Acc Crit)** _____

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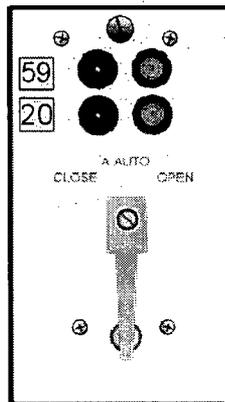
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**6.1.9 2-FCV-30-20 and 2-FCV-30-59, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic**

NOTES

- 1) 2-FCV-30-20 and 2-FCV-30-59 are both controlled by 2-HS-30-20. Both valves have status indication lights on this Handswitch which are indicated by the numbers "20" and "59," respectively.



- 2) To open valves, this Handswitch requires holding in OPEN position long enough for both open interlock limit switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-20, [2-M-9]:

- Green Light for 20 OFF _____
- Red Light for 20 ON _____
- Green Light for 59 OFF _____
- Red Light for 59 ON _____

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**6.1.9 2-FCV-30-20 and 2-FCV-30-59, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic (continued)**

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-20, Green Light OFF _____
- FCV-30-20, Red Light ON _____
- FCV-30-59, Green Light OFF _____
- FCV-30-59, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 39, FCV-30-20, Green Light OFF _____
- Window 39, FCV-30-20, Red Light ON _____
- Window 69, FCV-30-59, Green Light OFF _____
- Window 69, FCV-30-59, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-20, INCORE INSTR RM PURGE ISOL VALVE, [Lwr Cntrmt/728 AZ 57° (IIR)], is OPEN. _____
- Valve 2-FCV-30-59, CNTMT INSTRUMENT RM EXHAUST ISOLATION, [Annulus/739 AZ 116°], is OPEN. _____

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6.1.9 2-FCV-30-20 and 2-FCV-30-59, Incore Instrument Room Purge Supply and Exhaust Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-20, [2-M-9]:

- Green Light for 20 ON _____
- Red Light for 20 OFF _____
- Green Light for 59 ON _____
- Red Light for 59 OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-20, Green Light ON _____
- FCV-30-20, Red Light OFF _____
- FCV-30-59, Green Light ON _____
- FCV-30-59, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 39, FCV-30-20, Green Light ON _____
- Window 39, FCV-30-20, Red Light OFF _____
- Window 69, FCV-30-59, Green Light ON _____
- Window 69, FCV-30-59, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-20, INCORE INSTR RM PURGE ISOL VALVE, is CLOSED. _____
- Valve 2-FCV-30-59, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION, is CLOSED. _____

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**6.1.9 2-FCV-30-20 and 2-FCV-30-59, Incore Instrument Room Purge
Supply and Exhaust Isolation Valve Logic (continued)**

NOTES

Steps 6.1.9[4], 6.1.9[5], & 6.1.9[6] may be performed concurrently with steps 6.1.9[7], 6.1.9[8], & 6.1.9[9].

[4] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to OPEN, **AND**

VERIFY Valve 2-FCV-30-20, INCORE INSTR RM PURGE ISOL VALVE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-20, INCORE INSTR RM PURGE ISOL VALVE.

A. Locally _____

B. Remotely on 2-HS-30-20 indication lights (Red Light for 20 changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-20, INCORE INSTR RM PURGE ISOL VALVE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum. _____

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6.1.9 2-FCV-30-20 and 2-FCV-30-59, Incore Instrument Room Purge Supply and Exhaust Isolation Valve Logic (continued)

[7] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to OPEN, **AND**

VERIFY Valve 2-FCV-30-59, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-59, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION.

A. Locally _____

B. Remotely on 2-HS-30-20 indication lights (Red Light for 59 changes from ON to OFF) _____

[9] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-59, CNTMT INSTRUMENT ROOM EXHAUST ISOLATION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

[10] **VERIFY** successful completion of this SubSection 6.1.9. (Acc Crit) _____

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6.1.10 2-FCV-30-16, Lower Containment Purge Supply Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-16, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-16, Green Light OFF _____
- FCV-30-16, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 38, FCV-30-16, Green Light OFF _____
- Window 38, FCV-30-16, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-16, CNTMT LOWER COMPARTMENT PURGE SUPPLY, [Annulus/737 AZ 239°], is OPEN. _____

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6.1.10 2-FCV-30-16, Lower Containment Purge Supply Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-16, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-16, Green Light ON _____
- FCV-30-16, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 38, FCV-30-16, Green Light ON _____
- Window 38, FCV-30-16, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-16, CNTMT LOWER COMPARTMENT PURGE SUPPLY, is CLOSED. _____

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6.1.10 2-FCV-30-16, Lower Containment Purge Supply Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, to OPEN, **AND**

VERIFY Valve 2-FCV-30-16, CNTMT LOWER COMPARTMENT PURGE SUPPLY, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-16 CNTMT LOWER COMPARTMENT PURGE SUPPLY.

A. Locally _____

B. Remotely on 2-HS-30-16 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-16, CNTMT LOWER COMPARTMENT PURGE SUPPLY, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.10. (Acc Crit) _____

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6.1.11 2-FCV-30-17, Lower Containment Purge Supply Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-17, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-17, Green Light OFF _____
- FCV-30-17, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 38, FCV-30-17, Green Light OFF _____
- Window 38, FCV-30-17, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-17, CNTMT LOWER COMPARTMENT PURGE SUPPLY, [Lwr Cntmt/737 AZ 236° (Acc Rm 3)], is OPEN. _____

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6.1.11 2-FCV-30-17, Lower Containment Purge Supply Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-17, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-7, Green Light ON _____
- FCV-30-17, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 38, FCV-30-17, Green Light ON _____
- Window 38, FCV-30-17, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-17, CNTMT LOWER COMPARTMENT PURGE SUPPLY, is CLOSED. _____

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6.1.11 2-FCV-30-17, Lower Containment Purge Supply Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, to OPEN, **AND**

VERIFY Valve 2-FCV-30-17, CNTMT LOWER COMPARTMENT PURGE SUPPLY, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-17 CNTMT LOWER COMPARTMENT PURGE SUPPLY.

A. Locally _____

B. Remotely on 2-HS-30-17 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-17, CNTMT LOWER COMPARTMENT PURGE SUPPLY, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

[7] **VERIFY** successful completion of this SubSection 6.1.11. (Acc Crit) _____

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6.1.12 2-FCV-30-37, Containment Purge Pressure Relief Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-37, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-37, Green Light OFF _____
- FCV-30-37, Red Light ON _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 40, FCV-30-37, Green Light OFF _____
- Window 40, FCV-30-37, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-37, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, [Annulus/720 AZ 286°], is OPEN. _____

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6.1.12 2-FCV-30-37, Containment Purge Pressure Relief Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-37, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-37, Green Light ON _____
- FCV-30-37, Red Light OFF _____

C. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 40, FCV-30-37, Green Light ON _____
- Window 40, FCV-30-37, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-37, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, is CLOSED. _____

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6.1.12 2-FCV-30-37, Containment Purge Pressure Relief Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, to OPEN, **AND**

VERIFY Valve 2-FCV-30-37, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-37, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF.

A. Locally _____

B. Remotely on 2-HS-30-37 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-37, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.12. (Acc Crit) _____

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6.1.13 2-FCV-30-40, Containment Purge Pressure Relief Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-40, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-40, Green Light OFF _____
- FCV-30-40, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 40, FCV-30-40, Green Light OFF _____
- Window 40, FCV-30-40, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-40, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, [Lwr Cntmt/720 AZ 286° (Acc Rm 4)], is OPEN. _____

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6.1.13 2-FCV-30-40, Containment Purge Pressure Relief Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-40, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-40, Green Light ON _____
- FCV-30-40, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 40, FCV-30-40, Green Light ON _____
- Window 40, FCV-30-40, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-40, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, is CLOSED. _____

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6.1.13 2-FCV-30-40, Containment Purge Pressure Relief Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, to OPEN, **AND**

VERIFY Valve 2-FCV-30-40, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-40, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF.

A. Locally _____

B. Remotely on 2-HS-30-40 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-40, CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

B. Remote stroke CLOSE time:
 _____ seconds M&TE: _____
Acc Crit: 4.0 seconds maximum _____

[7] **VERIFY** successful completion of this SubSection 6.1.13. (Acc Crit) _____

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6.1.14 2-FCV-30-12, Annulus Purge Supply Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-12, ANNULUS PURGE SUPPLY, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-12, ANNULUS PURGE SUPPLY, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-12, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-12, Green Light OFF _____
- FCV-30-12, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 24, FCV-30-12, Green Light OFF _____
- Window 24, FCV-30-12, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-12, CNTMT ANNULUS PURGE SUPPLY, [Annulus/798 AZ 267°], is OPEN. _____

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6.1.14 2-FCV-30-12, Annulus Purge Supply Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-12, ANNULUS PURGE SUPPLY, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-12, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-12, Green Light ON _____
- FCV-30-12, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 24, FCV-30-12, Green Light ON _____
- Window 24, FCV-30-12, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-12, CNTMT ANNULUS PURGE SUPPLY, is CLOSED. _____

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6.1.14 2-FCV-30-12, Annulus Purge Supply Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-12, ANNULUS PURGE SUPPLY, to OPEN, **AND**

VERIFY Valve 2-FCV-30-12, CNTMT ANNULUS PURGE SUPPLY, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-12, ANNULUS PURGE SUPPLY, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-12, CNTMT ANNULUS PURGE SUPPLY.

A. Locally _____

B. Remotely on 2-HS-30-12 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-12, CNTMT ANNULUS PURGE SUPPLY, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum _____

[7] **VERIFY** successful completion of this SubSection 6.1.14. **(Acc Crit)** _____

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6.1.15 2-FCV-30-54, Annulus Purge Exhaust Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

- [1] **ENSURE** Handswitch 2-HS-30-54, ANNULUS PURGE EXH, [2-M-9], is in CLOSE. _____
- [2] **PLACE** Handswitch 2-HS-30-54, ANNULUS PURGE EXH, to OPEN, **AND** _____

VERIFY the following:

A. On 2-HS-30-54, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-54, Green Light OFF _____
- FCV-30-54, Red Light ON _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 55, FCV-30-54, Green Light OFF _____
- Window 55, FCV-30-54, Red Light ON _____

D. Locally:

- Valve 2-FCV-30-54, CNTMT ANNULUS PURGE EXHAUST, [Annulus/730 AZ 36°], is OPEN. _____

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6.1.15 2-FCV-30-54, Annulus Purge Exhaust Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-54, ANNULUS PURGE EXH, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-54, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On Containment Ventilation Mimic, [2-M-9]:

- FCV-30-54, Green Light ON _____
- FCV-30-54, Red Light OFF _____

C. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 55, FCV-30-54, Green Light ON _____
- Window 55, FCV-30-54, Red Light OFF _____

D. Locally:

- Valve 2-FCV-30-54, CNTMT ANNULUS PURGE EXHAUST, is CLOSED. _____

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6.1.15 2-FCV-30-54, Annulus Purge Exhaust Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-54, ANNULUS PURGE EXH, to OPEN, **AND**

VERIFY Valve 2-FCV-30-54, CNTMT ANNULUS PURGE EXHAUST, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-54, ANNULUS PURGE EXH, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-54, CNTMT ANNULUS PURGE EXHAUST.

A. Locally _____

B. Remotely on 2-HS-30-54 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-54, CNTMT ANNULUS PURGE EXHAUST, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum _____

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum _____

[7] **VERIFY** successful completion of this SubSection 6.1.15. (Acc Crit) _____

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6.1.16 2-FCV-30-2, Purge Supply Fan 2A Discharge Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-2, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light OFF _____
- Window 8, FCV-30-2, Red Light ON _____

C. Locally:

- Valve 2-FCV-30-2, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, [A13V/737, Pent Rm], is OPEN. _____

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6.1.16 2-FCV-30-2, Purge Supply Fan 2A Discharge Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-2, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light ON _____
- Window 8, FCV-30-2, Red Light OFF _____

C. Locally:

- Valve 2-FCV-30-2, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, is CLOSED. _____

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6.1.16 2-FCV-30-2, Purge Supply Fan 2A Discharge Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, to OPEN, **AND**

VERIFY Valve 2-FCV-30-2, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-2, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE.

A. Locally _____

B. Remotely on 2-HS-30-2 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-2, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.16. (Acc Crit) _____

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6.1.17 2-FCV-30-5, Purge Supply Fan 2B Discharge Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

[1] **ENSURE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-5, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 9, FCV-30-5, Green Light OFF _____
- Window 9, FCV-30-5, Red Light ON _____

C. Locally:

- Valve 2-FCV-30-5, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE, [A13V/737, Pent Rm], is OPEN. _____

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6.1.17 2-FCV-30-5, Purge Supply Fan 2B Discharge Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-5, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 9, FCV-30-5, Green Light ON _____
- Window 9, FCV-30-5, Red Light OFF _____

C. Locally:

- Valve 2-FCV-30-5, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, is CLOSED. _____

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6.1.17 2-FCV-30-5, Purge Supply Fan 2B Discharge Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, to OPEN, **AND**

VERIFY Valve 2-FCV-30-5, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-5, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE.

A. Locally _____

B. Remotely on 2-HS-30-5 indication lights
(Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-5, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.17.
(Acc Crit) _____

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6.1.18 2-FCV-30-61, Purge Exhaust Fan 2A Suction Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

- [1] **ENSURE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, [2-M-9], is in CLOSE. _____
- [2] **PLACE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, to OPEN, **AND**
VERIFY the following:
 - A. On 2-HS-30-61, [2-M-9]:
 - Green Light OFF _____
 - Red Light ON _____
 - B. On 2-XX-55-6E, Train A CISP, [2-M-6]:
 - Window 70, FCV-30-61, Green Light OFF _____
 - Window 70, FCV-30-61, Red Light ON _____
 - C. Locally:
 - Valve 2-FCV-30-61, CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION, [A15V/713, 713 Pent Rm], is OPEN. _____

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6.1.18 2-FCV-30-61, Purge Exhaust Fan 2A Suction Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-61, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 70, FCV-30-61, Green Light ON _____
- Window 70, FCV-30-61, Red Light OFF _____

C. Locally:

- Valve 2-FCV-30-61, CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION, is CLOSED. _____

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6.1.18 2-FCV-30-61, Purge Exhaust Fan 2A Suction Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, to OPEN, **AND**

VERIFY Valve 2-FCV-30-61, CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-61, CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION.

A. Locally _____

B. Remotely on 2-HS-30-61 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-61, CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.18. (Acc Crit) _____

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6.1.19 2-FCV-30-62, Purge Exhaust Fan 2B Suction Isolation Valve Logic

NOTE

To open valve, this Handswitch requires holding in OPEN position long enough for open interlock limit switch to make up at end of travel (Red Light ON, Green Light OFF). Handswitch spring returns to A AUTO from OPEN.

- [1] **ENSURE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, [2-M-9], is in CLOSE. _____

- [2] **PLACE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, to OPEN, **AND**

- VERIFY** the following:

- A. On 2-HS-30-62, [2-M-9]:
 - Green Light OFF _____
 - Red Light ON _____

- B. On 2-XX-55-6E, Train A CISP, [2-M-6]:
 - Window 83, FCV-30-62, Green Light OFF _____
 - Window 83, FCV-30-62, Red Light ON _____

- C. Locally:
 - Valve 2-FCV-30-62, CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION, [A15V/713, Pent Rm], is OPEN. _____

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6.1.19 2-FCV-30-62, Purge Exhaust Fan 2B Suction Isolation Valve Logic (continued)

[3] **PLACE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-62, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 83, FCV-30-62, Green Light ON _____
- Window 83, FCV-30-62, Red Light OFF _____

C. Locally:

- Valve 2-FCV-30-62, CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION, is CLOSED. _____

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6.1.19 2-FCV-30-62, Purge Exhaust Fan 2B Suction Isolation Valve Logic (continued)

[4] **PLACE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, to OPEN, **AND**

VERIFY Valve 2-FCV-30-62, CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION, is OPEN. _____

[5] **PLACE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, to CLOSE, **AND**

MEASURE the stroke CLOSE time of Valve 2-FCV-30-62, CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION.

A. Locally _____

B. Remotely on 2-HS-30-62 indication lights (Red Light changes from ON to OFF) _____

[6] **RECORD** the stroke CLOSE times of Valve 2-FCV-30-62, CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 10.7 seconds maximum

[7] **VERIFY** successful completion of this SubSection 6.1.19. (Acc Crit) _____

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Date _____

6.1.20 2-FCV-30-213, Purge Exhaust Fan 2A Discharge Isolation Valve Logic

[1] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-213, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. Locally:

- Valve 2-FCV-30-213, CONTAINMENT PURGE AIR EXHAUST FAN 2A DISCH, [A15V/713, Pent Rm], is OPEN. _____

[3] **PLACE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-213, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. Locally:

- Valve 2-FCV-30-213, CONTAINMENT PURGE AIR EXHAUST FAN 2A DISCH, is CLOSED. _____

[4] **VERIFY** successful completion of this SubSection 6.1.20. **(Acc Crit)** _____

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6.1.21 2-FCV-30-216, Purge Exhaust Fan 2B Discharge Isolation Valve Logic

[1] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, [2-M-9], is in CLOSE. _____

[2] **PLACE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, to OPEN, **AND**

VERIFY the following:

A. On 2-HS-30-216, [2-M-9]:

- Green Light OFF _____
- Red Light ON _____

B. Locally:

- Valve 2-FCV-30-216, CONTAINMENT PURGE AIR EXHAUST FAN 2B DISCH, [A15V/713, Pent Rm], is OPEN. _____

[3] **PLACE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, to CLOSE, **AND**

VERIFY the following:

A. On 2-HS-30-216, [2-M-9]:

- Green Light ON _____
- Red Light OFF _____

B. Locally:

- Valve 2-FCV-30-216, CONTAINMENT PURGE AIR EXHAUST FAN 2B DISCH, is CLOSED. _____

[4] **VERIFY** successful completion of this SubSection 6.1.21. **(Acc Crit)** _____

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6.1.22 2-FCO-30-294, Purge Air Supply Isolation Damper Logic

- [1] **ENSURE** Damper 2-FCO-30-295, PURGE AIR SUPPLY ISOLATION DAMPER, is CLOSED. _____

NOTE

Damper 2-FCO-30-295 must remain CLOSED while testing Damper 2-FCO-30-294.

- [2] **INSTALL** switched jumper at TB330, between Pt. 11 and Pt. 12 (Wire CPD6A and CPD7A) in Auxiliary Relay Panel 2-R-73 (45N2688-4) _____

1st

CV

- [3] **ENSURE** the switch on the switched jumper installed in the previous step (6.1.22[2]) is ON. _____

- [4] **ENSURE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, at 2-JB-292-6412-A, [A13U/737], is in NORMAL-CLOSE. _____

- [5] **PLACE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND**

VERIFY the following:

A. Status Lights on 2-M-9:

- 2-XI-30-294, DAMPER FCO-30-294, Green Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____

B. Locally:

- Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER, [A13U/737], is OPEN. _____

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Date _____

**6.1.22 2-FCO-30-294, Purge Air Supply Isolation Damper Logic
(continued)**

[6] **PLACE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, to NORMAL-CLOSED, **AND**

VERIFY the following:

A. Status Lights on 2-M-9:

- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____

B. Locally:

- Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER, is CLOSED. _____

[7] **PLACE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND**

VERIFY Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND**

VERIFY the following Status Lights on 2-M-9:

- A. 2-XI-30-294, DAMPER FCO-30-294, Green Light OFF _____
- B. 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____

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**6.1.22 2-FCO-30-294, Purge Air Supply Isolation Damper Logic
(continued)**

NOTE

The following steps will simulate an Auxiliary Building Isolation (ABI) signal and ABI signal reset by opening and closing a switch on jumper installed in Auxiliary Relay Panel 2-R-73.

- [9] **PLACE** switch on jumper installed in 2-R-73, TB330, between Pts 11 & 12 (step 6.1.22[2]), to OFF to simulate a Train A Auxiliary Building Isolation (ABI). _____

- [10] **VERIFY** the following Status Lights on 2-M-9:
 - A. 2-XI-30-294, DAMPER FCO-30-294, Green Light ON
(Acc Crit) _____
 - B. 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF
(Acc Crit) _____

- [11] **PLACE** switch on jumper installed in 2-R-73, TB330, between Pts 11 & 12 (step 6.1.22[2]), to ON to simulate a Train A ABI signal reset. _____

- [12] **VERIFY** the following Status Lights on 2-M-9:
 - A. 2-XI-30-294, DAMPER FCO-30-294, Green Light OFF _____
 - B. 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____

- [13] **PLACE** switch on jumper installed in 2-R-73, TB330, between Pts 11 & 12 (step 6.1.22[2]), to OFF to simulate a Train A ABI, **AND**
 - MEASURE** the stroke CLOSE time of Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER.
 - A. Locally _____
 - B. Remotely on Status Lights on 2-M-9:
2-XI-30-294, DAMPER FCO-30-294 (Red Light changes from ON to OFF) _____

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Date _____

**6.1.22 2-FCO-30-294, Purge Air Supply Isolation Damper Logic
(continued)**

[14] **RECORD** the stroke CLOSE times of Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds

M&TE: _____

Acc Crit: 30.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds

M&TE: _____

Acc Crit: 30.0 seconds maximum

[15] **PLACE** Handswitch 2-HS-30-294B, PURGE AIR SUPPLY ISOLATION DAMPER, to NORMAL-CLOSE.

[16] **REMOVE** switched jumper installed in step 6.1.22[2] from 2-R-73, TB330, between Pt. 11 and Pt. 12 (45N2688-4).

1st

CV

[17] **VERIFY** successful completion of this SubSection 6.1.22.
(Acc Crit)

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6.1.23 2-FCO-30-295, Purge Air Supply Isolation Damper Logic

- [1] **ENSURE** Damper 2-FCO-30-294, PURGE AIR SUPPLY ISOLATION DAMPER, is CLOSED. _____

NOTE

Damper 2-FCO-30-294 must remain CLOSED while testing Damper 2-FCO-30-295.

- [2] **INSTALL** switched jumper at TB824, between Pt. 11 and Pt. 12 (Wire CPD6B and CPD7B) in Auxiliary Relay Panel 2-R-78 (45N2693-3) _____

1st

CV

- [3] **ENSURE** the switch on the switched jumper installed in the previous step (6.1.23[2]) is ON. _____

- [4] **ENSURE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY ISOLATION DAMPER, at 2-JB-292-6413-B, [A13U/737], is in NORMAL-CLOSE. _____

- [5] **PLACE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND** _____

VERIFY the following:

A. Status Lights on 2-M-9:

- 2-XI-30-295, DAMPER FCO-30-295, Green Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

B. Locally:

- Damper 2-FCO-30-295, PURGE AIR SUPPLY ISOLATION DAMPER, [A13U/737], is OPEN. _____

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**6.1.23 2-FCO-30-295, Purge Air Supply Isolation Damper Logic
(continued)**

[6] **PLACE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY ISOLATION DAMPER, to NORMAL-CLOSED, **AND**

VERIFY the following:

A. Status Lights on 2-M-9:

- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

B. Locally:

- Damper 2-FCO-30-295, PURGE AIR SUPPLY ISOLATION DAMPER, is CLOSED. _____

[7] **PLACE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND**

VERIFY Damper 2-FCO-30-295, PURGE AIR SUPPLY ISOLATION DAMPER, is OPEN. _____

[8] **PLACE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY ISOLATION DAMPER, to TEST-OPEN, **AND**

VERIFY the following Status Lights on 2-M-9:

- A. 2-XI-30-295, DAMPER FCO-30-295, Green Light OFF _____
- B. 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

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**6.1.23 2-FCO-30-295, Purge Air Supply Isolation Damper Logic
(continued)**

NOTE

The following steps will simulate an Auxiliary Building Isolation (ABI) signal and ABI signal reset by opening and closing a switch on jumper installed in Auxiliary Relay Panel 2-R-78.

- [9] **PLACE** switch on jumper installed in 2-R-78, TB824, between Pts 11 & 12 (step 6.1.23[2]), to OFF to simulate a Train B Auxiliary Building Isolation (ABI). _____

- [10] **VERIFY** the following Status Lights on 2-M-9:
 - A. 2-XI-30-295, DAMPER FCO-30-295, Green Light ON
(Acc Crit) _____
 - B. 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF
(Acc Crit) _____

- [11] **PLACE** switch on jumper installed in 2-R-78, TB824, between Pts 2 & 3 (step 6.1.23[2]), to ON to simulate a Train B ABI signal reset. _____

- [12] **VERIFY** the following Status Lights on 2-M-9:
 - A. 2-XI-30-295, DAMPER FCO-30-295, Green Light OFF _____
 - B. 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

- [13] **PLACE** switch on jumper installed in 2-R-78, TB824, between Pts 11 & 12 (step 6.1.23[2]), to OFF to simulate a Train B ABI, **AND**
 - MEASURE** the stroke CLOSE time of Damper 2-FCO-30-295, PURGE AIR SUPPLY ISOLATION DAMPER.
 - A. Locally _____
 - B. Remotely on Status Lights on 2-M-9:
2-XI-30-295, DAMPER FCO-30-295 (Red Light changes from ON to OFF) _____

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Date _____

**6.1.23 2-FCO-30-295, Purge Air Supply Isolation Damper Logic
(continued)**

[14] **RECORD** the stroke CLOSE times of Damper 2-FCO-30-295,
PURGE AIR SUPPLY ISOLATION DAMPER, **AND**

VERIFY they meet Acceptance Criteria.

A. Local stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 30.0 seconds maximum

B. Remote stroke CLOSE time:

_____ seconds M&TE: _____
Acc Crit: 30.0 seconds maximum

[15] **PLACE** Handswitch 2-HS-30-295B, PURGE AIR SUPPLY
ISOLATION DAMPER, to NORMAL-CLOSE.

[16] **REMOVE** switched jumper installed in step 6.1.23[2] from
2-R-78, TB824, between Pt. 11 and Pt. 12.

1st

CV

[17] **VERIFY** successful completion of this SubSection 6.1.23.
(Acc Crit)

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6.1.24 Fire Safe Shutdown Isolation (Train A)

[1] **ENSURE** the following subsections are complete

- A. SubSection 6.1.2 (2-FCV-30-7 & 51) _____
- B. SubSection 6.1.5 (2-FCV-30-10 & 52) _____
- C. SubSection 6.1.6 (2-FCV-30-14 & 56) _____
- D. SubSection 6.1.9 (2-FCV-30-20 & 59) _____
- E. SubSection 6.1.11 (2-FCV-30-17) _____
- F. SubSection 6.1.13 (2-FCV-30-40) _____

[2] **VERIFY** the following:

- A. Handswitch 2-XS-30-1080A, CONTROL ROOM ISOLATION DAMPER, at 2-JB-292-8205-A, [A11Q/757 (Vit Batt Bd Rm III)], is ON. _____
- B. Handswitch 2-XS-30-1080B, CONTROL ROOM ISOLATION DAMPER, at 2-JB-292-8205-A, [A11Q/757 (Vit Batt Bd Rm III)], is ON. _____

NOTE

To open valves, these Handswitches require holding in OPEN position long enough for open interlock stem switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[3] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE 2-FCV-30-7 & 51, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-7, Green Light OFF _____
- FCV-30-7, Red Light ON _____
- FCV-30-51, Green Light OFF _____
- FCV-30-51, Red Light ON _____

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6.1.24 Fire Safe Shutdown Isolation (Train A) (continued)

[4] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic:

- FCV-30-10, Green Light OFF _____
- FCV-30-10, Red Light ON _____
- FCV-30-52, Green Light OFF _____
- FCV-30-52, Red Light ON _____

[5] **PLACE** Handswitch 2-HS-30-14, LWR CNTMT PURGE 2-FCV-30-14 & 56, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-14, Green Light OFF _____
- FCV-30-14, Red Light ON _____
- FCV-30-56, Green Light OFF _____
- FCV-30-56, Red Light ON _____

[6] **PLACE** Handswitch 2-HS-30-20, INSTR RM PURGE 2-FCV-30-20 & 59, [2-M-9], to OPEN. **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-20, Green Light OFF _____
- FCV-30-20, Red Light ON _____
- FCV-30-59, Green Light OFF _____
- FCV-30-59, Red Light ON _____

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6.1.24 Fire Safe Shutdown Isolation (Train A) (continued)

[7] **PLACE** Handswitch 2-HS-30-17, LWR CNTMT PURGE SUP, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-17, Green Light OFF _____
- FCV-30-17, Red Light ON _____

[8] **PLACE** Handswitch 2-HS-30-40, LWR CNTMT PURGE EXH PRESS RLF, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- 2-XI-30-40, FCV-30-40, Green Light OFF _____
- 2-XI-30-40, FCV-30-40, Red Light ON _____

[9] **PLACE** Handswitch 2-XS-30-1080A, CONTROL ROOM ISOLATION DAMPER, in OFF. _____

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6.1.24 Fire Safe Shutdown Isolation (Train A) (continued)

- [10] **VERIFY** on Containment Ventilation Mimic, [2-M-9]: **(Acc Crit)**
 - A. FCV-30-7, Green Light ON _____
 - B. FCV-30-7, Red Light OFF _____
 - C. FCV-30-51, Green Light ON _____
 - D. FCV-30-51, Red Light OFF _____
 - E. FCV-30-10, Green Light ON _____
 - F. FCV-30-10, Red Light OFF _____
 - G. FCV-30-52, Green Light ON _____
 - H. FCV-30-52, Red Light OFF _____
 - I. FCV-30-14, Green Light ON _____
 - J. FCV-30-14, Red Light OFF _____
 - K. FCV-30-56, Green Light ON _____
 - L. FCV-30-56, Red Light OFF _____
 - M. FCV-30-20, Green Light ON _____
 - N. FCV-30-20, Red Light OFF _____
 - O. FCV-30-59, Green Light ON _____
 - P. FCV-30-59, Red Light OFF _____

- [11] **VERIFY** 2-XA-55-1C-19B, 125 DC VITAL BATT BD III
ABNORMAL, ALARMS. _____

- [12] **PLACE** Handswitch 2-XS-30-1080A, CONTROL ROOM
ISOLATION DAMPER, in ON. _____

- [13] **VERIFY** 2-XA-55-1C-19B, 125 DC VITAL BATT BD III
ABNORMAL, CLEARS. _____

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6.1.24 Fire Safe Shutdown Isolation (Train A) (continued)

- [14] **PLACE** Handswitch 2-XS-30-1080B, CONTROL ROOM ISOLATION DAMPER, in OFF. _____
- [15] **VERIFY** on Containment Ventilation Mimic, [2-M-9]: **(Acc Crit)**
 - A. FCV-30-17, Green Light ON _____
 - B. FCV-30-17, Red Light OFF _____
 - C. FCV-30-40, Green Light ON _____
 - D. FCV-30-40, Red Light OFF _____
- [16] **VERIFY** 2-XA-55-1C-19B, 125 DC VITAL BATT BD III ABNORMAL, ALARMS. _____
- [17] **PLACE** Handswitch 2-XS-30-1080B, CONTROL ROOM ISOLATION DAMPER, in ON. _____
- [18] **VERIFY** 2-XA-55-1C-19B, 125 DC VITAL BATT BD III ABNORMAL, CLEARS. _____

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6.1.25 Fire Safe Shutdown Isolation (Train B)

[1] **ENSURE** the following subsections are complete

- A. SubSection 6.1.3 (2-FCV-30-8 & 50) _____
- B. SubSection 6.1.4 (2-FCV-30-9 & 53) _____
- C. SubSection 6.1.7 (2-FCV-30-15 & 57) _____
- D. SubSection 6.1.8 2-FCV-30-19 & 58) _____
- E. SubSection 6.1.10 (2-FCV-30-16) _____
- F. SubSection 6.1.12 (2-FCV-30-37) _____

[2] **VERIFY** the following:

- A. Handswitch 2-XS-30-1085A, CONTROL ROOM ISOLATION DAMPER, at 2-JB-292-8223-B, [A12Q/757 (Vit Batt Bd Rm IV)], is ON. _____
- B. Handswitch 2-XS-30-1085B, CONTROL ROOM ISOLATION DAMPER, at 2-JB-292-8223-B, [A12Q/757 (Vit Batt Bd Rm IV)], is ON. _____

NOTE

To open valves, these Handswitches require holding in OPEN position long enough for open interlock stem switches to make up at end of travel (Red Lights ON, Green Lights OFF). Handswitch spring returns to A AUTO from OPEN.

[3] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE 2-FCV-30-8 & 50, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-8, Green Light OFF _____
- FCV-30-8, Red Light ON _____
- FCV-30-50, Green Light OFF _____
- FCV-30-50, Red Light ON _____

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6.1.25 Fire Safe Shutdown Isolation (Train B) (continued)

[4] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE
2-FCV-30-9 & 53, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-9, Green Light OFF _____
- FCV-30-9, Red Light ON _____
- FCV-30-53, Green Light OFF _____
- FCV-30-53, Red Light ON _____

[5] **PLACE** Handswitch 2-HS-30-15, LWR CNTMT PURGE
2-FCV-30-15 & 57, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-15, Green Light OFF _____
- FCV-30-15, Red Light ON _____
- FCV-30-57, Green Light OFF _____
- FCV-30-57, Red Light ON _____

[6] **PLACE** Handswitch 2-HS-30-19, INSTR RM PURGE
2-FCV-30-19 & 58, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-19, Green Light OFF _____
- FCV-30-19, Red Light ON _____
- FCV-30-58, Green Light OFF _____
- FCV-30-58, Red Light ON _____

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6.1.25 Fire Safe Shutdown Isolation (Train B) (continued)

[7] **PLACE** Handswitch 2-HS-30-16, LWR CNTMT PURGE SUP, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-16, Green Light OFF _____
- FCV-30-16, Red Light ON _____

[8] **PLACE** Handswitch 2-HS-30-37, LWR CNTMT PURGE EXH PRESS RLF, [2-M-9], to OPEN, **AND**

VERIFY on Containment Ventilation Mimic, [2-M-9]:

- FCV-30-37, Green Light OFF _____
- FCV-30-37, Red Light ON _____

[9] **PLACE** Handswitch 2-XS-30-1085A, CONTROL ROOM ISOLATION DAMPER, in OFF. _____

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6.1.25 Fire Safe Shutdown Isolation (Train B) (continued)

[10] **VERIFY** on Containment Ventilation Mimic, [2-M-9]: **(Acc Crit)**

- A. FCV-30-8, Green Light ON _____
- B. FCV-30-8, Red Light OFF _____
- C. FCV-30-50, Green Light ON _____
- D. FCV-30-50, Red Light OFF _____
- E. FCV-30-9, Green Light ON _____
- F. FCV-30-9, Red Light OFF _____
- G. FCV-30-53, Green Light ON _____
- H. FCV-30-53, Red Light OFF _____
- I. FCV-30-15, Green Light ON _____
- J. FCV-30-15, Red Light OFF _____
- K. FCV-30-57, Green Light ON _____
- L. FCV-30-57, Red Light OFF _____
- M. FCV-30-19, Green Light ON _____
- N. FCV-30-19, Red Light OFF _____
- O. FCV-30-58, Green Light ON _____
- P. FCV-30-58, Red Light OFF _____

[11] **VERIFY** 2-XA-55-1C-20B, 125 DC VITAL BATT BD IV ABNORMAL, ALARMS. _____

[12] **PLACE** Handswitch 2-XS-30-1085A, CONTROL ROOM ISOLATION DAMPER, in ON. _____

[13] **VERIFY** 2-XA-55-1C-20B, 125 DC VITAL BATT BD IV ABNORMAL, CLEARS. _____

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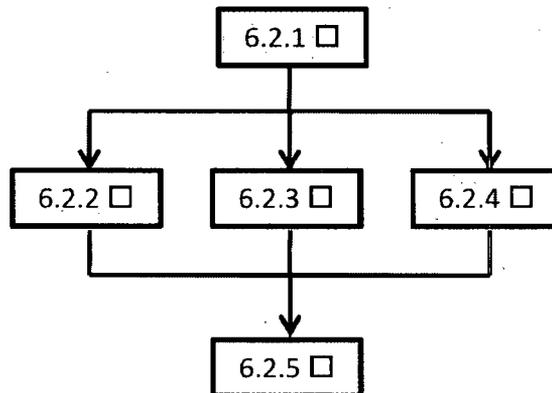
6.1.25 Fire Safe Shutdown Isolation (Train B) (continued)

- [14] **PLACE** Handswitch 2-XS-30-1085B, CONTROL ROOM ISOLATION DAMPER. _____
- [15] **VERIFY** on Containment Ventilation Mimic, [2-M-9]: **(Acc Crit)**
 - A. FCV-30-16, Green Light ON _____
 - B. FCV-30-16, Red Light OFF _____
 - C. FCV-30-37, Green Light ON _____
 - D. FCV-30-37, Red Light OFF _____
- [16] **VERIFY** 2-XA-55-1C-20B, 125 DC VITAL BATT BD IV ABNORMAL, ALARMS. _____
- [17] **PLACE** Handswitch 2-XS-30-1085B, CONTROL ROOM ISOLATION DAMPER, in ON. _____
- [18] **VERIFY** 2-XA-55-1C-20B, 125 DC VITAL BATT BD IV ABNORMAL, CLEARS. _____

6.2 Containment Purge Fans Functional Test

NOTES

- 1) The SubSections of this Section shall be performed per the flow chart below.



- 2) SubSection 6.2.1 shall be performed first, followed by SubSections 6.2.2 through 6.2.4 performed in any order, and SubSection 6.2.5 performed last. Steps within each SubSection are to be performed in the order written. The flowchart above may be used as a placekeeping tool throughout the performance of Section 6.2.
- 3) Some Containment Purge Valve Handswitches control two Containment Purge valves. Refer to Section 6.1 for Handswitch labeling notes.
- 4) Containment Purge Valve Handswitches require holding in OPEN position long enough for open interlock stem switches to make up at end of travel (Red Light(s) ON, Green Light(s) OFF). Handswitches spring return to A AUTO from OPEN (except 2-HS-30-213 and -216, which have no A AUTO position).

6.2.1 Preliminary Actions

- [1] **VERIFY** prerequisites listed in Section 4.0 for SubSection 6.2 have been completed. _____
- [2] **OBTAIN** a Containment Purge Release Package from Chemistry. _____

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6.2.1 Preliminary Actions (continued)

[3] **PLACE** Handswitch 2-HS-30-2, PURGE SUPPLY FAN 2A DISCH, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-2:

A. Green Light OFF _____

B. Red Light ON _____

[4] **PLACE** Handswitch 2-HS-30-5, PURGE SUPPLY FAN 2B DISCH, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-5:

A. Green Light OFF _____

B. Red Light ON _____

[5] **PLACE** Handswitch 2-HS-30-61, PURGE EXH FAN A SUCT, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-61:

A. Green Light OFF _____

B. Red Light ON _____

[6] **PLACE** Handswitch 2-HS-30-62, PURGE EXH FAN B SUCT, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-62:

A. Green Light OFF _____

B. Red Light ON _____

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6.2.1 Preliminary Actions (continued)

[7] **PLACE** Handswitch 2-HS-30-7, UPR CNTMT PURGE
2-FCV-30-7 & 51, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-7:

- A. Green Light for 7 OFF _____
- B. Red Light for 7 ON _____
- C. Green Light for 51 OFF _____
- D. Red Light for 51 ON _____

[8] **PLACE** Handswitch 2-HS-30-8, UPR CNTMT PURGE
2-FCV-30-8 & 50, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-8:

- A. Green Light for 8 OFF _____
- B. Red Light for 8 ON _____
- C. Green Light for 50 OFF _____
- D. Red Light for 50 ON _____

[9] **PLACE** Handswitch 2-HS-30-9, UPR CNTMT PURGE
2-FCV-30-9 & 53, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-9:

- A. Green Light for 9 OFF _____
- B. Red Light for 9 ON _____
- C. Green Light for 53 OFF _____
- D. Red Light for 53 ON _____

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6.2.1 Preliminary Actions (continued)

[10] **PLACE** Handswitch 2-HS-30-10, UPR CNTMT PURGE 2-FCV-30-10 & 52, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-10:

A. Green Light for 10 OFF _____

B. Red Light for 10 ON _____

C. Green Light for 52 OFF _____

D. Red Light for 52 ON _____

[11] **PLACE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-213:

A. Green Light OFF _____

B. Red Light ON _____

[12] **PLACE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, [2-M-9], to OPEN, **AND**

VERIFY on 2-HS-30-216:

A. Green Light OFF _____

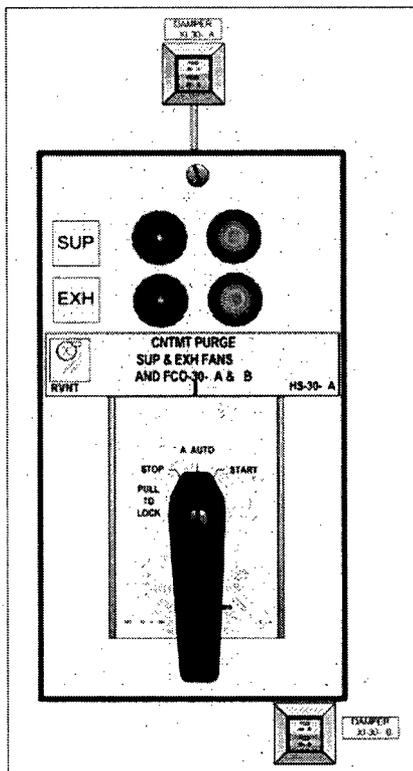
B. Red Light ON _____

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6.2.1 Preliminary Actions (continued)

NOTES

- 1) Each Purge Fan Handswitch controls both a supply and exhaust fan. Both fans have status indication lights on this Handswitch which are indicated by "SUP" and "EXH," respectively.



- 2) Purge Fan Handswitches spring return to A AUTO from STOP and START positions.

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6.2.2 Containment Purge Supply and Exhaust Fan 2A Logic

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], to A AUTO, **AND**

VERIFY the following:

A. On 2-HS-30-1A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9:

- 2-XI-30-1A, DAMPER FCO-30-1A, Green Light ON _____
- 2-XI-30-1A, DAMPER FCO-30-1A, Red Light OFF _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Green Light ON _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

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**6.2.2 Containment Purge Supply and Exhaust Fan 2A Logic
(continued)**

C. On 480V Reactor Vent Board 2A-A, [A10S/772]:

- Breaker 2-BKR-30-1, 480V RX VT BD 2A-A, Compartment 15D, Red Light is OFF. _____
- Breaker 2-BKR-30-1E, 480V RX VT BD 2A-A, Compartment 16D, Red Light is OFF. _____

D. Locally:

- Damper 2-FCO-30-1A, CONTAINMENT PURGE AIR SUPPLY FAN 2A SUCTION, [A12U/737], is CLOSED. _____
- Damper 2-FCO-30-1B, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, [A12U/737, Pent Rm], is CLOSED. _____
- Fan 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, [A12U/737, Pent Rm], is OFF. _____
- Fan 2-FAN-30-1E, CONTAINMENT PURGE AIR EXHAUST FAN 2A, [A15U/713, Pent Rm], is OFF. _____

[4] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], to START, **AND**

VERIFY the following:

A. On 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9]:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

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**6.2.2 Containment Purge Supply and Exhaust Fan 2A Logic
(continued)**

B. Status Lights on 2-M-9 (Acc Crit):

- 2-XI-30-1A, DAMPER FCO-30-1A, Green Light OFF _____
- 2-XI-30-1A, DAMPER FCO-30-1A, Red Light ON _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Green Light OFF _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Red Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294,
Green Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295,
Green Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

C. On 480V Reactor Vent Board 2A-A:

- Breaker 2-BKR-30-1, 480V RX VT BD 2A-A,
Compartment 15D, Red Light is ON. _____
- Breaker 2-BKR-30-1E, 480V RX VT BD 2A-A,
Compartment 16D, Red Light is ON. _____

D. Locally:

- Damper 2-FCO-30-1A, CONTAINMENT PURGE AIR
SUPPLY FAN 2A SUCTION, is OPEN. **(Acc Crit)** _____
- Damper 2-FCO-30-1B, CONTAINMENT PURGE AIR
SUPPLY FAN 2A DISCHARGE, is OPEN. **(Acc Crit)** _____
- Fan 2-FAN-30-1, CONTAINMENT PURGE AIR
SUPPLY FAN 2A, is ON. _____
- Fan 2-FAN-30-1E, CONTAINMENT PURGE AIR
EXHAUST FAN 2A, is ON. _____

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**6.2.2 Containment Purge Supply and Exhaust Fan 2A Logic
(continued)**

[5] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], to STOP, **AND**

VERIFY the following:

A. On 2-HS-30-1A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9 (**Acc Crit**):

- 2-XI-30-1A, DAMPER FCO-30-1A, Green Light ON _____
- 2-XI-30-1A, DAMPER FCO-30-1A, Red Light OFF _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Green Light ON _____
- 2-XI-30-1B, DAMPER FCO-30-1B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

C. On 480V Reactor Vent Board 2A-A:

- Breaker 2-BKR-30-1, 480V RX VT BD 2A-A, Compartment 15D, Red Light is OFF. _____
- Breaker 2-BKR-30-1E, 480V RX VT BD 2A-A, Compartment 16D, Red Light is OFF. _____

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**6.2.2 Containment Purge Supply and Exhaust Fan 2A Logic
(continued)**

D. Locally:

- Damper 2-FCO-30-1A, CONTAINMENT PURGE AIR SUPPLY FAN 2A SUCTION, is CLOSED. **(Acc Crit)** _____
- Damper 2-FCO-30-1B, CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE, is CLOSED. **(Acc Crit)** _____
- Fan 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, is OFF. _____
- Fan 2-FAN-30-1E, CONTAINMENT PURGE AIR EXHAUST FAN 2A, is OFF. _____

[6] **PRESS** START pushbutton 2-HS-30-1B, CONTAINMENT PURGE AIR SUPPLY FAN 2A, at 2-JB-292-75, [A12U/737], **AND**

VERIFY Fan 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, STARTS (locally). _____

[7] **PRESS** STOP pushbutton 2-HS-30-1B, CONTAINMENT PURGE AIR SUPPLY FAN 2A, at 2-JB-292-75, **AND**

VERIFY Fan 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, STOPS (locally). _____

[8] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, to STOP PULL TO LOCK, **AND**

VERIFY on 2-HS-30-1A:

- A. Green Light for SUP is ON _____
- B. Red Light for SUP is OFF _____
- C. Green Light for EXH is ON _____
- D. Red Light for EXH is OFF _____

[9] **VERIFY** successful completion of this SubSection 6.2.2. **(Acc Crit)** _____

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6.2.3 Containment Purge Supply and Exhaust Fan 2B Logic

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**

OBTAIN a valid Containment Purge Release Package. _____

[3] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9] to A AUTO, **AND**

VERIFY the following:

A. On 2-HS-30-4A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9:

- 2-XI-30-4A, DAMPER FCO-30-4A, Green Light ON _____
- 2-XI-30-4A, DAMPER FCO-30-4A, Red Light OFF _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Green Light ON _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

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**6.2.3 Containment Purge Supply and Exhaust Fan 2B Logic
(continued)**

C. On 480V Reactor Vent Board 2B-B, [A10S/772]:

- Breaker 2-BKR-30-4, 480V RX VT BD 2B-B, Compartment 15D, Red Light is OFF. _____
- Breaker 2-BKR-30-4E, 480V RX VT BD 2B-B, Compartment 16D, Red Light is OFF. _____

D. Locally:

- Damper 2-FCO-30-4A, CONTAINMENT PURGE AIR SUPPLY FAN 2B SUCTION, [A12U/737, Pent Rm], is CLOSED. _____
- Damper 2-FCO-30-4B, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE, [A12U/737, Pent Rm], is CLOSED. _____
- Fan 2-FAN-30-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B, [A12U/737, Pent Rm], is OFF. _____
- Fan 2-FAN-30-4E, CONTAINMENT PURGE AIR EXHAUST FAN 2B, [A15U/713, Pent Rm], is OFF. _____

[4] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9] to START, **AND**

VERIFY the following:

A. On 2-HS-30-4A, [2-M-9]:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

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**6.2.3 Containment Purge Supply and Exhaust Fan 2B Logic
(continued)**

B. Status Lights on 2-M-9 (Acc Crit):

- 2-XI-30-4A, DAMPER FCO-30-4A, Green Light OFF _____
- 2-XI-30-4A, DAMPER FCO-30-4A, Red Light ON _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Green Light OFF _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Red Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294,
Green Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295,
Green Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

C. On 480V Reactor Vent Board 2B-B:

- Breaker 2-BKR-30-4, 480V RX VT BD 2B-B,
Compartment 15D, Red Light is ON. _____
- Breaker 2-BKR-30-4E, 480V RX VT BD 2B-B,
Compartment 16D, Red Light is ON. _____

D. Locally:

- Damper 2-FCO-30-4A, CONTAINMENT PURGE AIR
SUPPLY FAN 2B SUCTION, is OPEN. **(Acc Crit)** _____
- Damper 2-FCO-30-4B, CONTAINMENT PURGE AIR
SUPPLY FAN 2B DISCHARGE, is OPEN. **(Acc Crit)** _____
- Fan 2-FAN-30-4, CONTAINMENT PURGE AIR
SUPPLY FAN 2B, is ON. _____
- Fan 2-FAN-30-4E, CONTAINMENT PURGE AIR
EXHAUST FAN 2B, is ON. _____

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**6.2.3 Containment Purge Supply and Exhaust Fan 2B Logic
(continued)**

[5] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9] to STOP, **AND**

VERIFY the following:

A. On 2-HS-30-4A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9 (**Acc Crit**):

- 2-XI-30-4A, DAMPER FCO-30-4A, Green Light ON _____
- 2-XI-30-4A, DAMPER FCO-30-4A, Red Light OFF _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Green Light ON _____
- 2-XI-30-4B, DAMPER FCO-30-4B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

C. On 480V Reactor Vent Board 2B-B:

- Breaker 2-BKR-30-4, 480V RX VT BD 2B-B, Compartment 15D, Red Light is OFF. _____
- Breaker 2-BKR-30-4E, 480V RX VT BD 2B-B, Compartment 16D, Red Light is OFF. _____

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**6.2.3 Containment Purge Supply and Exhaust Fan 2B Logic
(continued)**

D. Locally:

- Damper 2-FCO-30-4A, CONTAINMENT PURGE AIR SUPPLY FAN 2B SUCTION, is CLOSED. **(Acc Crit)** _____
- Damper 2-FCO-30-4B, CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE, is CLOSED. **(Acc Crit)** _____
- Fan 2-FAN-30-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B, is OFF. _____
- Fan 2-FAN-30-4E, CONTAINMENT PURGE AIR EXHAUST FAN 2B, is OFF. _____

[6] **PRESS** START pushbutton 2-HS-30-4B, CONTAINMENT PURGE AIR SUPPLY FAN 2B, at 2-JB-292-75, [A12U/737], **AND**

VERIFY Fan 2-FAN-30-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B, STARTS (locally). _____

[7] **PRESS** STOP pushbutton 2-HS-30-4B, CONTAINMENT PURGE AIR SUPPLY FAN 2B, at 2-JB-292-75, **AND**

VERIFY Fan 2-FAN-30-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B, STOPS (locally). _____

[8] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, to STOP PULL TO LOCK, **AND**

VERIFY on 2-HS-30-4A:

- A. Green Light for SUP is ON _____
- B. Red Light for SUP is OFF _____
- C. Green Light for EXH is ON _____
- D. Red Light for EXH is OFF _____

[9] **VERIFY** successful completion of this SubSection 6.2.3. **(Acc Crit)** _____

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6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, [2-M-9], to A AUTO, **AND**

VERIFY the following:

A. On 2-HS-30-11A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9:

- 2-XI-30-11A, DAMPER FCO-30-11A, Green Light ON _____
- 2-XI-30-11A, DAMPER FCO-30-11A, Red Light OFF _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Green Light ON _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

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**6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic
(continued)**

C. On 480V Reactor Vent Board 2B-B, [A10S/772]:

- Breaker 2-BKR-30-11, 480V RX VT BD 2B-B, Compartment 5E, Red Light is OFF. _____
- Breaker 2-BKR-30-11E, 480V RX VT BD 2B-B, Compartment 6E, Red Light is OFF. _____

D. Locally:

- Damper 2-FCO-30-11A, CNTMT INCORE INST RM SUPPLY FAN SUCTION, [A12U/737, Pent Rm], is CLOSED. _____
- Damper 2-FCO-30-11B, CNTMT INCORE INST RM SUPPLY FAN DISCHARGE, [A12U/737, Pent Rm], is CLOSED. _____
- Fan 2-FAN-30-11, CNTMT INCORE INST RM SUPPLY FAN, [A12U/737, Pent Rm], is OFF. _____
- Fan 2-FAN-30-11E, CNTMT INCORE INST RM EXHAUST FAN, [A15U/713, Pent Rm], is OFF. _____

[4] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, to START, **AND**

VERIFY the following:

A. On 2-HS-30-11A, [2-M-9]:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

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**6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic
(continued)**

B. Status Lights on 2-M-9 (Acc Crit):

- 2-XI-30-11A, DAMPER FCO-30-11A, Green Light OFF _____
- 2-XI-30-11A, DAMPER FCO-30-11A, Red Light ON _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Green Light OFF _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Red Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light ON _____

C. On 480V Reactor Vent Board 2B-B:

- Breaker 2-BKR-30-11, 480V RX VT BD 2B-B, Compartment 5E, Red Light is ON. _____
- Breaker 2-BKR-30-11E, 480V RX VT BD 2B-B, Compartment 6E, Red Light is ON. _____

D. Locally:

- Damper 2-FCO-30-11A, CNTMT INCORE INST RM SUPPLY FAN SUCTION, is OPEN. **(Acc Crit)** _____
- Damper 2-FCO-30-11B, CNTMT INCORE INST RM SUPPLY FAN DISCHARGE, is OPEN. **(Acc Crit)** _____
- Fan 2-FAN-30-11, CNTMT INCORE INST RM SUPPLY FAN, is ON. _____
- Fan 2-FAN-30-11E, CNTMT INCORE INST RM EXHAUST FAN, is ON. _____

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**6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic
(continued)**

[5] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, to STOP, **AND**

VERIFY the following:

A. On 2-HS-30-11A, [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

B. Status Lights on 2-M-9 (**Acc Crit**):

- 2-XI-30-11A, DAMPER FCO-30-11A, Green Light ON _____
- 2-XI-30-11A, DAMPER FCO-30-11A, Red Light OFF _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Green Light ON _____
- 2-XI-30-11B, DAMPER FCO-30-11B, Red Light OFF _____
- 2-XI-30-294, DAMPER FCO-30-294, Green Light ON _____
- 2-XI-30-294, DAMPER FCO-30-294, Red Light OFF _____
- 2-XI-30-295, DAMPER FCO-30-295, Green Light ON _____
- 2-XI-30-295, DAMPER FCO-30-295, Red Light OFF _____

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**6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic
(continued)**

C. On 480V Reactor Vent Board 2B-B:

- Breaker 2-BKR-30-11, 480V RX VT BD 2B-B, Compartment 5E, Red Light is OFF. _____
- Breaker 2-BKR-30-11E, 480V RX VT BD 2B-B, Compartment 6E, Red Light is OFF. _____

D. Locally:

- Damper 2-FCO-30-11A, CNTMT INCORE INST RM SUPPLY FAN SUCTION, is CLOSED. (**Acc Crit**) _____
- Damper 2-FCO-30-11B, CNTMT INCORE INST RM SUPPLY FAN DISCHARGE, is CLOSED. (**Acc Crit**) _____
- Fan 2-FAN-30-11, CNTMT INCORE INST RM, is OFF. _____
- Fan 2-FAN-30-11E, CNTMT INCORE INST RM EXHAUST FAN, is OFF. _____

[6] **PRESS** START pushbutton 2-HS-30-11B, CNTMT INCORE INSTR ROOM SUPPLY AND EXHAUST FAN, at 2-JB-292-75, [A12U/737], **AND**

VERIFY Fan 2-FAN-30-11, CNTMT INCORE INSTR ROOM SUPPLY FAN, STARTS (locally). _____

[7] **PRESS** STOP pushbutton 2-HS-30-11B, CNTMT INCORE INSTR ROOM SUPPLY AND EXHAUST FAN, at 2-JB-292-75, **AND**

VERIFY Fan 2-FAN-30-11, CNTMT INCORE INSTR ROOM SUPPLY FAN, STOPS (locally). _____

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**6.2.4 Incore Instrument Room Purge Supply and Exhaust Fan Logic
(continued)**

[8] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, to STOP PULL TO LOCK, **AND**

VERIFY on 2-HS-30-11A:

- A. Green Light for SUP is ON _____
- B. Red Light for SUP is OFF _____
- C. Green Light for EXH is ON _____
- D. Red Light for EXH is OFF _____

[9] **VERIFY** successful completion of this SubSection 6.2.4.
(Acc Crit) _____

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6.2.5 Containment Purge Fan Interlocks

- [1] **ENSURE** that Subsections 6.2.2 through 6.2.4 are complete. _____
- [2] **PLACE** Breaker 2-BKR-30-1E, CNTMT PURGE EXH FAN 2A (2-FAN-30-1E), at 480V RX VT BD 2A-A, Compartment 16D, to OFF. _____
- [3] **PLACE** Breaker 2-BKR-30-4E, CNTMT PURGE EXH FAN 2B (2-FAN-30-4E), at 480V RX VT BD 2B-B, Compartment 16D, to OFF. _____
- [4] **PLACE** Breaker 2-BKR-30-11E, CNTMT INCORE INSTR ROOM EXH FAN (2-FAN-30-11E), at 480V RX VT BD 2B-B, Compartment 6E, to OFF. _____
- [5] **PLACE** and **HOLD** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, in **START**, **AND**
VERIFY on 2-HS-30-1A:
 - A. Green Light for SUP is OFF _____
 - B. Red Light for SUP is ON _____
 - C. Green Light for EXH is OFF _____
 - D. Red Light for EXH is OFF _____
- [6] **RELEASE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, **AND**
VERIFY on 2-HS-30-1A:
 - A. Green Light for SUP is ON _____
 - B. Red Light for SUP is OFF _____
 - C. Green Light for EXH is OFF _____
 - D. Red Light for EXH is OFF _____
- [7] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, to **STOP PULL TO LOCK**. _____

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6.2.5 Containment Purge Fan Interlocks (continued)

[8] **PLACE** and **HOLD** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, in START, **AND**

VERIFY on 2-HS-30-4A:

- A. Green Light for SUP is OFF _____
- B. Red Light for SUP is ON _____
- C. Green Light for EXH is OFF _____
- D. Red Light for EXH is OFF _____

[9] **RELEASE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, **AND**

VERIFY on 2-HS-30-4A:

- A. Green Light for SUP is ON _____
- B. Red Light for SUP is OFF _____
- C. Green Light for EXH is OFF _____
- D. Red Light for EXH is OFF _____

[10] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS AND FCO-30-4A & 4B, to STOP PULL TO LOCK. _____

[11] **PLACE** and **HOLD** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, in START, **AND**

VERIFY on 2-HS-30-11A:

- A. Green Light for SUP is OFF _____
- B. Red Light for SUP is ON _____
- C. Green Light for EXH is OFF _____
- D. Red Light for EXH is OFF _____

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6.2.5 Containment Purge Fan Interlocks (continued)

[12] **RELEASE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, **AND**

VERIFY on 2-HS-30-11A:

A. Green Light for SUP is ON _____

B. Red Light for SUP is OFF _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is OFF _____

[13] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, in STOP PULL TO LOCK. _____

[14] **PLACE** Breaker 2-BKR-30-1E, CNTMT PURGE EXH FAN 2A (2-FAN-30-1E), at 480V RX VT BD 2A-A, Compartment 16D, to ON. _____

[15] **PLACE** Breaker 2-BKR-30-4E, CNTMT PURGE EXH FAN 2B (2-FAN-30-4E), at 480V RX VT BD 2B-B, Compartment 16D, to ON. _____

[16] **PLACE** Breaker 2-BKR-30-11E, CNTMT INCORE INSTR ROOM EXH FAN (2-FAN-30-11E), at 480V RX VT BD 2B-B, Compartment 6E, to ON. _____

[17] **VERIFY** successful completion of this SubSection 6.2.5. **(Acc Crit)** _____

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**6.3 Engineered Safety Feature Actuation System (ESFAS)
Simulation Tests**

NOTES

1) The SubSections of this Section shall be performed per the flow chart below.

```

graph TD
    A[6.3.1] --> B[6.3.2]
    A --> C[6.3.3]
    A --> D[6.3.4]
    A --> E[6.3.5]

```

2) SubSection 6.3.1 shall be performed first, followed by SubSections 6.3.2 through 6.3.5 performed in any order. Steps within each SubSection are to be performed in the order written. The flowchart above may be used as a placekeeping tool throughout the performance of Section 6.3.

3) Some Containment Purge Valve Handswitches control two Containment Purge valves. Refer to Section 6.1 for Handswitch labeling notes.

4) Containment Purge Valve Handswitches require holding in OPEN position long enough for open interlock stem switches to make up at end of travel (Red Light(s) ON, Green Light(s) OFF). Handswitches spring return to A AUTO from OPEN (except 2-HS-30-213 and -216, which have no A AUTO position).

5) Each Containment Purge Fan Handswitch controls both a supply and exhaust fan. Refer to Section 6.2 for Handswitch labeling notes.

6) Containment Purge Fan Handswitches spring return to A AUTO from STOP and START positions.

6.3.1 Preliminary Actions:

- [1] **VERIFY** prerequisites listed in Section 4.0 for SubSection 6.3 have been completed.

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6.3.2 Train A Containment Vent Isolation

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **IF** system 90, Radiation Monitoring, is under the jurisdictional control of Preoperational Startup Engineering (PSE), **THEN**

PERFORM the following steps:

[3.1] **ENSURE** that no work or test activities are in progress on system 90 that could adversely affect performance of this SubSection. _____

[3.2] **ENSURE** the following Radiation Monitors are OFF:

A. 2-RM-90-106, CNTMT BLDG LWR COMPT MON _____

B. 2-RM-90-112, CNTMT BLDG UP COMPT MON _____

[3.3] **RECORD** the As-Found position of the following valves and their Handswitches on 0-M-12:

2-FCV-90-107, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY
Valve Position: _____

Handswitch Position _____

2-FCV-90-111, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN
Valve Position: _____

Handswitch Position _____

2-FCV-90-113, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY
Valve Position: _____

Handswitch Position _____

2-FCV-90-117, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN
Valve Position: _____

Handswitch Position _____

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6.3.2 Train A Containment Vent Isolation (continued)

[4] **ENSURE** the following Containment Purge Valves are OPEN as indicated on 2-XX-55-6E, Train A CISP, [2-M-6]:

2-FCV-30-7	Window 10, FCV-30-7, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 10, FCV-30-7, Red Light ON	_____
2-FCV-30-51	Window 53, FCV-30-51, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 53, FCV-30-51, Red Light ON	_____
2-FCV-30-10	Window 23, FCV-30-10, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 23, FCV-30-10, Red Light ON	_____
2-FCV-30-52	Window 54, FCV-30-52, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 54, FCV-30-52, Red Light ON	_____
2-FCV-30-14	Window 25, FCV-30-14, Green Light OFF	_____
LOWER COMPT PURGE ISOL VALVE	Window 25, FCV-30-14, Red Light ON	_____
2-FCV-30-56	Window 68, FCV-30-56, Green Light OFF	_____
CNTMT LOWER COMPARTMENT EXHAUST ISOLATION	Window 68, FCV-30-56, Red Light ON	_____
2-FCV-30-20	Window 39, FCV-30-20, Green Light OFF	_____
INCORE INSTR RM PURGE ISOL VALVE	Window 39, FCV-30-20, Red Light ON	_____
2-FCV-30-59	Window 69, FCV-30-59, Green Light OFF	_____
CNTMT INSTRUMENT RM EXHAUST ISOLATION	Window 69, FCV-30-59, Red Light ON	_____
2-FCV-30-17	Window 38, FCV-30-17, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE SUPPLY	Window 38, FCV-30-17, Red Light ON	_____
2-FCV-30-40	Window 40, FCV-30-40, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF	Window 40, FCV-30-40, Red Light ON	_____

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6.3.2 Train A Containment Vent Isolation (continued)

2-FCV-30-12 CNTMT ANNULUS PURGE SUPPLY	Window 24, FCV-30-12, Green Light OFF Window 24, FCV-30-12, Red Light ON	_____ _____
2-FCV-30-54 CNTMT ANNULUS PURGE EXHAUST	Window 55, FCV-30-54, Green Light OFF Window 55, FCV-30-54, Red Light ON	_____ _____
2-FCV-30-2 CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE	Window 8, FCV-30-2, Green Light OFF Window 8, FCV-30-2, Red Light ON	_____ _____
2-FCV-30-5 CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE	Window 9, FCV-30-5, Green Light OFF Window 9, FCV-30-5, Red Light ON	_____ _____
2-FCV-30-61 CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION	Window 70, FCV-30-61, Green Light OFF Window 70, FCV-30-61, Red Light ON	_____ _____
2-FCV-30-62 CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION	Window 83, FCV-30-62, Green Light OFF Window 83, FCV-30-62, Red Light ON	_____ _____

Data Package: Page ____ of ____ Date _____

6.3.2 Train A Containment Vent Isolation (continued)

[5] **ENSURE** the following Containment Purge Valves are OPEN as indicated on 2-XX-55-6F, Train B CISP, [2-M-6]:

2-FCV-30-8	Window 10, FCV-30-8, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 10, FCV-30-8, Red Light ON	_____
2-FCV-30-50	Window 53, FCV-30-50, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 53, FCV-30-50, Red Light ON	_____
2-FCV-30-9	Window 23, FCV-30-9, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 23, FCV-30-9, Red Light ON	_____
2-FCV-30-53	Window 54, FCV-30-53, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 54, FCV-30-53, Red Light ON	_____
2-FCV-30-15	Window 25, FCV-30-15, Green Light OFF	_____
LOWER COMPT PURGE ISOL VALVE	Window 25, FCV-30-15, Red Light ON	_____
2-FCV-30-57	Window 68, FCV-30-57, Green Light OFF	_____
CNTMT LOWER COMPARTMENT EXHAUST ISOLATION	Window 68, FCV-30-57, Red Light ON	_____
2-FCV-30-19	Window 39, FCV-30-19, Green Light OFF	_____
INCORE INSTR RM PURGE ISOL VALVE	Window 39, FCV-30-19, Red Light ON	_____
2-FCV-30-58	Window 69, FCV-30-58, Green Light OFF	_____
CNTMT INSTRUMENT RM EXHAUST ISOLATION,	Window 69, FCV-30-58, Red Light ON	_____
2-FCV-30-16	Window 38, FCV-30-16, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE SUPPLY	Window 38, FCV-30-16, Red Light ON	_____
2-FCV-30-37	Window 40, FCV-30-37, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF	Window 40, FCV-30-37, Red Light ON	_____

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6.3.2 Train A Containment Vent Isolation (continued)

[6] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, is in OPEN, **AND**

VERIFY the following on 2-HS-30-213:

- Green Light OFF _____
- Red Light ON _____

[7] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, is in OPEN, **AND**

VERIFY the following on 2-HS-30-216:

- Green Light OFF _____
- Red Light ON _____

[8] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, to START, **AND**

VERIFY the following on 2-HS-30-1A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

[9] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, at 2-M-9, to START **AND**

VERIFY the following on 2-HS-30-4A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

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6.3.2 Train A Containment Vent Isolation (continued)

[10] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, to START, **AND**

VERIFY the following on 2-HS-30-11A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

NOTE

The following step will simulate High Radiation detected in the Purge Exhaust Duct and will initiate a Train-A Containment Vent Isolation (CVI) Signal by placing a jumper across terminal points in SSPS Train-A Logic Cabinet 2-R-47.

[11] **MOMENTARILY PLACE** a handheld jumper at TB506, between point 1 and point 2 in Panel 2-R-47 (45N2676-3). _____

1st

CV

[12] **VERIFY** on Panel 2-M-6, 2-XX-55-6C, Train-A MASTER ISOL SIGNAL STATUS PNL, Window 2, CVI, is LIT. _____

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Date _____

6.3.2 Train A Containment Vent Isolation (continued)

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

A. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light ON _____
- Window 8, FCV-30-2, Red Light OFF _____
- Window 9, FCV-30-5, Green Light ON _____
- Window 9, FCV-30-5, Red Light OFF _____
- Window 10, FCV-30-7, Green Light ON _____
- Window 10, FCV-30-7, Red Light OFF _____
- Window 23, FCV-30-10, Green Light ON _____
- Window 23, FCV-30-10, Red Light OFF _____
- Window 24, FCV-30-12, Green Light ON _____
- Window 24, FCV-30-12, Red Light OFF _____
- Window 25, FCV-30-14, Green Light ON _____
- Window 25, FCV-30-14, Red Light OFF _____
- Window 38, FCV-30-17, Green Light ON _____
- Window 38, FCV-30-17, Red Light OFF _____
- Window 39, FCV-30-20, Green Light ON _____
- Window 39, FCV-30-20, Red Light OFF _____
- Window 40, FCV-30-40, Green Light ON _____
- Window 40, FCV-30-40, Red Light OFF _____
- Window 53, FCV-30-51, Green Light ON _____
- Window 53, FCV-30-51, Red Light OFF _____

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6.3.2 Train A Containment Vent Isolation (continued)

- Window 54, FCV-30-52, Green Light ON _____
- Window 54, FCV-30-52, Red Light OFF _____
- Window 55, FCV-30-54, Green Light ON _____
- Window 55, FCV-30-54, Red Light OFF _____
- Window 68, FCV-30-56, Green Light ON _____
- Window 68, FCV-30-56, Red Light OFF _____
- Window 69, FCV-30-59, Green Light ON _____
- Window 69, FCV-30-59, Red Light OFF _____
- Window 70, FCV-30-61, Green Light ON _____
- Window 70, FCV-30-61, Red Light OFF _____
- Window 83, FCV-30-62, Green Light ON _____
- Window 83, FCV-30-62, Red Light OFF _____

B. On 2-HS-30-1A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

C. On 2-HS-30-4A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

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6.3.2 Train A Containment Vent Isolation (continued)

D. On 2-HS-30-11A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

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

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

A. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light ON _____
- Window 8, FCV-30-2, Red Light OFF _____
- Window 9, FCV-30-5, Green Light ON _____
- Window 9, FCV-30-5, Red Light OFF _____
- Window 10, FCV-30-7, Green Light ON _____
- Window 10, FCV-30-7, Red Light OFF _____
- Window 23, FCV-30-10, Green Light ON _____
- Window 23, FCV-30-10, Red Light OFF _____
- Window 24, FCV-30-12, Green Light ON _____
- Window 24, FCV-30-12, Red Light OFF _____
- Window 25, FCV-30-14, Green Light ON _____
- Window 25, FCV-30-14, Red Light OFF _____
- Window 38, FCV-30-17, Green Light ON _____
- Window 38, FCV-30-17, Red Light OFF _____

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6.3.2 Train A Containment Vent Isolation (continued)

- Window 39, FCV-30-20, Green Light ON _____
- Window 39, FCV-30-20, Red Light OFF _____
- Window 40, FCV-30-40, Green Light ON _____
- Window 40, FCV-30-40, Red Light OFF _____
- Window 53, FCV-30-51, Green Light ON _____
- Window 53, FCV-30-51, Red Light OFF _____
- Window 54, FCV-30-52, Green Light ON _____
- Window 54, FCV-30-52, Red Light OFF _____
- Window 55, FCV-30-54, Green Light ON _____
- Window 55, FCV-30-54, Red Light OFF _____
- Window 68, FCV-30-56, Green Light ON _____
- Window 68, FCV-30-56, Red Light OFF _____
- Window 69, FCV-30-59, Green Light ON _____
- Window 69, FCV-30-59, Red Light OFF _____
- Window 70, FCV-30-61, Green Light ON _____
- Window 70, FCV-30-61, Red Light OFF _____
- Window 83, FCV-30-62, Green Light ON _____
- Window 83, FCV-30-62, Red Light OFF _____

B. On 2-HS-30-1A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

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6.3.2 Train A Containment Vent Isolation (continued)

C. On 2-HS-30-4A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

D. On 2-HS-30-11A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

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6.3.2 Train A Containment Vent Isolation (continued)

[16] **IF** system 90, Radiation Monitoring, is under the jurisdictional control of Preoperational Startup Engineering (PSE), **THEN**

RESTORE the following valves and Handswitches on 0-M-12 to their As-Found position recorded in step 6.3.2[3.3].

2-FCV-90-107, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-111, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-113, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-117, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

1st

CV

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6.3.3 Train B Containment Vent Isolation

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **IF** system 90, Radiation Monitoring, is under the jurisdictional control of Preoperational Startup Engineering (PSE), **THEN**

PERFORM the following steps:

[3.1] **ENSURE** that no work or test activities are in progress on system 90 that could adversely affect performance of this SubSection. _____

[3.2] **ENSURE** the following Radiation Monitors are OFF:
A. 2-RM-90-106, CNTMT BLDG LWR COMPT MON _____
B. 2-RM-90-112, CNTMT BLDG UP COMPT MON _____

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Date _____

6.3.3 Train B Containment Vent Isolation (continued)

[3.3] **RECORD** the As-Found position of the following valves and their Handswitches on 0-M-12:

2-FCV-90-108, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

2-FCV-90-109, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

2-FCV-90-110, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

2-FCV-90-114, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

2-FCV-90-115, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

2-FCV-90-116, CNTMT BLDG UPPER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

Data Package: Page ____ of ____ Date _____

6.3.3 Train B Containment Vent Isolation (continued)

[4] **ENSURE** the following Containment Purge Valves are OPEN as indicated on 2-XX-55-6E, Train A CISP, [2-M-6]:

2-FCV-30-7	Window 10, FCV-30-7, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 10, FCV-30-7, Red Light ON	_____
2-FCV-30-51	Window 53, FCV-30-51, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 53, FCV-30-51, Red Light ON	_____
2-FCV-30-10	Window 23, FCV-30-10, Green Light OFF	_____
UPPER COMPT PURGE ISOL VALVE	Window 23, FCV-30-10, Red Light ON	_____
2-FCV-30-52	Window 54, FCV-30-52, Green Light OFF	_____
CNTMT UPPER COMPARTMENT EXHAUST ISOLATION	Window 54, FCV-30-52, Red Light ON	_____
2-FCV-30-14	Window 25, FCV-30-14, Green Light OFF	_____
LOWER COMPT PURGE ISOL VALVE	Window 25, FCV-30-14, Red Light ON	_____
2-FCV-30-56	Window 68, FCV-30-56, Green Light OFF	_____
CNTMT LOWER COMPARTMENT EXHAUST ISOLATION	Window 68, FCV-30-56, Red Light ON	_____
2-FCV-30-20	Window 39, FCV-30-20, Green Light OFF	_____
INCORE INSTR RM PURGE ISOL VALVE	Window 39, FCV-30-20, Red Light ON	_____
2-FCV-30-59	Window 69, FCV-30-59, Green Light OFF	_____
CNTMT INSTRUMENT RM EXHAUST ISOLATION	Window 69, FCV-30-59, Red Light ON	_____
2-FCV-30-17	Window 38, FCV-30-17, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE SUPPLY	Window 38, FCV-30-17, Red Light ON	_____
2-FCV-30-40	Window 40, FCV-30-40, Green Light OFF	_____
CNTMT LOWER COMPARTMENT PURGE EXH PRESS RELIEF	Window 40, FCV-30-40, Red Light ON	_____

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6.3.3 Train B Containment Vent Isolation (continued)

2-FCV-30-12 CNTMT ANNULUS PURGE SUPPLY	Window 24, FCV-30-12, Green Light OFF Window 24, FCV-30-12, Red Light ON	_____ _____
2-FCV-30-54 CNTMT ANNULUS PURGE EXHAUST	Window 55, FCV-30-54, Green Light OFF Window 55, FCV-30-54, Red Light ON	_____ _____
2-FCV-30-2 CONTAINMENT PURGE AIR SUPPLY FAN 2A DISCHARGE	Window 8, FCV-30-2, Green Light OFF Window 8, FCV-30-2, Red Light ON	_____ _____
2-FCV-30-5 CONTAINMENT PURGE AIR SUPPLY FAN 2B DISCHARGE	Window 9, FCV-30-5, Green Light OFF Window 9, FCV-30-5, Red Light ON	_____ _____
2-FCV-30-61 CONTAINMENT PURGE AIR EXHAUST FAN 2A SUCTION	Window 70, FCV-30-61, Green Light OFF Window 70, FCV-30-61, Red Light ON	_____ _____
2-FCV-30-62 CONTAINMENT PURGE AIR EXHAUST FAN 2B SUCTION	Window 83, FCV-30-62, Green Light OFF Window 83, FCV-30-62, Red Light ON	_____ _____

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Date _____

6.3.3 Train B Containment Vent Isolation (continued)

[5] **ENSURE** the following Containment Purge Valves are OPEN as indicated on 2-XX-55-6F, Train B CISP, [2-M-6]:

2-FCV-30-8 UPPER COMPT PURGE ISOL	Window 10, FCV-30-8, Green Light OFF	_____
VALVE	Window 10, FCV-30-8, Red Light ON	_____
2-FCV-30-50 CNTMT UPPER COMPARTMENT	Window 53, FCV-30-50, Green Light OFF	_____
EXHAUST ISOLATION	Window 53, FCV-30-50, Red Light ON	_____
2-FCV-30-9 UPPER COMPT PURGE ISOL	Window 23, FCV-30-9, Green Light OFF	_____
VALVE	Window 23, FCV-30-9, Red Light ON	_____
2-FCV-30-53 CNTMT UPPER COMPARTMENT	Window 54, FCV-30-53, Green Light OFF	_____
EXHAUST ISOLATION	Window 54, FCV-30-53, Red Light ON	_____
2-FCV-30-15 LOWER COMPT PURGE ISOL	Window 25, FCV-30-15, Green Light OFF	_____
VALVE	Window 25, FCV-30-15, Red Light ON	_____
2-FCV-30-57 CNTMT LOWER COMPARTMENT	Window 68, FCV-30-57, Green Light OFF	_____
EXHAUST ISOLATION	Window 68, FCV-30-57, Red Light ON	_____
2-FCV-30-19 INCORE INSTR RM PURGE ISOL	Window 39, FCV-30-19, Green Light OFF	_____
VALVE	Window 39, FCV-30-19, Red Light ON	_____
2-FCV-30-58 CNTMT INSTRUMENT RM	Window 69, FCV-30-58, Green Light OFF	_____
EXHAUST ISOLATION,	Window 69, FCV-30-58, Red Light ON	_____
2-FCV-30-16 CNTMT LOWER COMPARTMENT	Window 38, FCV-30-16, Green Light OFF	_____
PURGE SUPPLY	Window 38, FCV-30-16, Red Light ON	_____
2-FCV-30-37 CNTMT LOWER COMPARTMENT	Window 40, FCV-30-37, Green Light OFF	_____
PURGE EXH PRESS RELIEF	Window 40, FCV-30-37, Red Light ON	_____

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Date _____

6.3.3 Train B Containment Vent Isolation (continued)

[6] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, is in OPEN, **AND**

VERIFY the following on 2-HS-30-213:

- Green Light OFF _____
- Red Light ON _____

[7] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, is in OPEN, **AND**

VERIFY the following on 2-HS-30-216:

- Green Light OFF _____
- Red Light ON _____

[8] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, to START, **AND**

VERIFY the following on 2-HS-30-1A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

[9] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, to START **AND**

VERIFY the following on 2-HS-30-4A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

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6.3.3 Train B Containment Vent Isolation (continued)

[10] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, to START, **AND**

VERIFY the following on 2-HS-30-11A:

- Green Light for SUP is OFF _____
- Red Light for SUP is ON _____
- Green Light for EXH is OFF _____
- Red Light for EXH is ON _____

NOTE

The following step will simulate High Radiation detected in the Purge Exhaust Duct and will initiate a Train-B Containment Vent Isolation (CVI) Signal by placing a jumper across terminal points in SSPS Train-B Logic Cabinet 2-R-50

[11] **MOMENTARILY PLACE** a handheld jumper at TB506, between point 1 and point 2 in Panel 2-R-50 (45N2677-3).

1st

CV

[12] **VERIFY** on Panel 2-M-6, 2-XX-55-6D, Train-B MASTER ISOLS SIGNAL STATUS PNL, Window 2, CVI, is LIT.

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6.3.3 Train B Containment Vent Isolation (continued)

[13] Verify the following: **(Acc Crit)**

A. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light ON _____
- Window 8, FCV-30-2, Red Light OFF _____
- Window 9, FCV-30-5, Green Light ON _____
- Window 9, FCV-30-5, Red Light OFF _____
- Window 24, FCV-30-12, Green Light ON _____
- Window 24, FCV-30-12, Red Light OFF _____
- Window 55, FCV-30-54, Green Light ON _____
- Window 55, FCV-30-54, Red Light OFF _____
- Window 70, FCV-30-61, Green Light ON _____
- Window 70, FCV-30-61, Red Light OFF _____
- Window 83, FCV-30-62, Green Light ON _____
- Window 83, FCV-30-62, Red Light OFF _____

B. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 10, FCV-30-8, Green Light ON _____
- Window 10, FCV-30-8, Red Light OFF _____
- Window 23, FCV-30-9, Green Light ON _____
- Window 23, FCV-30-9, Red Light OFF _____
- Window 25, FCV-30-15, Green Light ON _____
- Window 25, FCV-30-15, Red Light OFF _____
- Window 38, FCV-30-16, Green Light ON _____
- Window 38, FCV-30-16, Red Light OFF _____

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6.3.3 Train B Containment Vent Isolation (continued)

- Window 39, FCV-30-19, Green Light ON _____
- Window 39, FCV-30-19, Red Light OFF _____
- Window 40, FCV-30-37, Green Light ON _____
- Window 40, FCV-30-37, Red Light OFF _____
- Window 53, FCV-30-50, Green Light ON _____
- Window 53, FCV-30-50, Red Light OFF _____
- Window 54, FCV-30-53, Green Light ON _____
- Window 54, FCV-30-53, Red Light OFF _____
- Window 68, FCV-30-57, Green Light ON _____
- Window 68, FCV-30-57, Red Light OFF _____
- Window 69, FCV-30-58, Green Light ON _____
- Window 69, FCV-30-58, Red Light OFF _____

C. On 2-HS-30-1A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

D. On 2-HS-30-4A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

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6.3.3 Train B Containment Vent Isolation (continued)

E. On 2-HS-30-11A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

[14] **PRESS** 2-HS-30-65B, CNTMT VENT ISOL RESET TR-B, [2-M-6]. _____

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

A. On 2-XX-55-6E, Train A CISP, [2-M-6]:

- Window 8, FCV-30-2, Green Light ON _____
- Window 8, FCV-30-2, Red Light OFF _____
- Window 9, FCV-30-5, Green Light ON _____
- Window 9, FCV-30-5, Red Light OFF _____
- Window 24, FCV-30-12, Green Light ON _____
- Window 24, FCV-30-12, Red Light OFF _____
- Window 55, FCV-30-54, Green Light ON _____
- Window 55, FCV-30-54, Red Light OFF _____
- Window 70, FCV-30-61, Green Light ON _____
- Window 70, FCV-30-61, Red Light OFF _____
- Window 83, FCV-30-62, Green Light ON _____
- Window 83, FCV-30-62, Red Light OFF _____

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6.3.3 Train B Containment Vent Isolation (continued)

B. On 2-XX-55-6F, Train B CISP, [2-M-6]:

- Window 10, FCV-30-8, Green Light ON _____
- Window 10, FCV-30-8, Red Light OFF _____
- Window 23, FCV-30-9, Green Light ON _____
- Window 23, FCV-30-9, Red Light OFF _____
- Window 25, FCV-30-15, Green Light ON _____
- Window 25, FCV-30-15, Red Light OFF _____
- Window 38, FCV-30-16, Green Light ON _____
- Window 38, FCV-30-16, Red Light OFF _____
- Window 39, FCV-30-19, Green Light ON _____
- Window 39, FCV-30-19, Red Light OFF _____
- Window 40, FCV-30-37, Green Light ON _____
- Window 40, FCV-30-37, Red Light OFF _____
- Window 53, FCV-30-50, Green Light ON _____
- Window 53, FCV-30-50, Red Light OFF _____
- Window 54, FCV-30-53, Green Light ON _____
- Window 54, FCV-30-53, Red Light OFF _____
- Window 68, FCV-30-57, Green Light ON _____
- Window 68, FCV-30-57, Red Light OFF _____
- Window 69, FCV-30-58, Green Light ON _____
- Window 69, FCV-30-58, Red Light OFF _____

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6.3.3 Train B Containment Vent Isolation (continued)

C. On 2-HS-30-1A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

D. On 2-HS-30-4A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

E. On 2-HS-30-11A [2-M-9]:

- Green Light for SUP is ON _____
- Red Light for SUP is OFF _____
- Green Light for EXH is ON _____
- Red Light for EXH is OFF _____

[16] **IF** system 90, Radiation Monitoring, is under the jurisdictional control of Preoperational Startup Engineering (PSE), **THEN**

RESTORE the following valves and Handswitches on 0-M-12 to their As-Found position recorded in step 6.3.3[3.2]A.

2-FCV-90-108, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

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Date _____

6.3.3 Train B Containment Vent Isolation (continued)

2-FCV-90-109, CNTMT BLDG LOWER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-110, CNTMT BLDG LOWER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-114, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-115, CNTMT BLDG UPPER COMPT AIR RAD MON SUPPLY

Valve Position: _____

Handswitch Position _____

1st

CV

2-FCV-90-116, CNTMT BLDG UPPER COMPT AIR RAD MON RETURN

Valve Position: _____

Handswitch Position _____

1st

CV

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Date _____

6.3.4 Simulated Train A Auxiliary Building Isolation

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**

OBTAIN a valid Containment Purge Release Package. _____

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Date _____

6.3.4 Simulated Train A Auxiliary Building Isolation (continued)

[3] **ENSURE** the following Containment Purge Valves are OPEN as indicated on their respective handswitches on 2-M-9:

2-FCV-30-2	2-HS-30-2, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2A DISCHARGE	2-HS-30-2, Red Light ON	_____
2-FCV-30-5	2-HS-30-5, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2B DISCHARGE	2-HS-30-5, Red Light ON	_____
2-FCV-30-61	2-HS-30-61, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2A SUCTION	2-HS-30-61, Red Light ON	_____
2-FCV-30-62	2-HS-30-62, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2B SUCTION	2-HS-30-62, Red Light ON	_____
2-FCV-30-7	2-HS-30-7, Green Light for 7 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-7, Red Light for 7 ON	_____
2-FCV-30-51	2-HS-30-7, Green Light for 51 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-7, Red Light for 51 ON	_____
2-FCV-30-8	2-HS-30-8, Green Light for 8 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-8, Red Light for 8 ON	_____
2-FCV-30-50	2-HS-30-8, Green Light for 50 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-8, Red Light for 50 ON	_____
2-FCV-30-9	2-HS-30-9, Green Light for 9 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-9, Red Light for 9 ON	_____
2-FCV-30-53	2-HS-30-9, Green Light for 53 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-9, Red Light for 53 ON	_____
2-FCV-30-10	2-HS-30-10, Green Light for 10 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-10, Red Light for 10 ON	_____
2-FCV-30-52	2-HS-30-10, Green Light for 52 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-10, Red Light for 52 ON	_____

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Data Package: Page ____ of ____

Date _____

6.3.4 Simulated Train A Auxiliary Building Isolation (continued)

[4] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-213:

A. Green Light OFF _____

B. Red Light ON _____

[5] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-216:

A. Green Light OFF _____

B. Red Light ON _____

[6] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-1A:

A. Green Light for SUP is OFF _____

B. Red Light for SUP is ON _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is ON _____

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Date _____

6.3.4 Simulated Train A Auxiliary Building Isolation (continued)

NOTE

The following steps will simulate a Train A Auxiliary Building Isolation (ABI) signal and ABI signal reset by opening and closing a switch on jumper installed in Auxiliary Relay Panel 2-R-76.

- [7] **PLACE** switch on jumper installed in step 4.3[9]A at 2-R-76, at TB646, between Pt. 1 and Pt. 2 to OFF. _____

- [8] **VERIFY** on 2-HS-30-1A:
 - A. Green Light for SUP is ON (**Acc Crit**) _____
 - B. Red Light for SUP is OFF (**Acc Crit**) _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

- [9] **PLACE** switch on jumper installed in step 4.3[9]A at 2-R-76, at TB646, between Pt. 1 and Pt. 2 to ON. _____

- [10] **VERIFY** on 2-HS-30-1A:
 - A. Green Light for SUP is ON _____
 - B. Red Light for SUP is OFF _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

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Date _____

6.3.5 Simulated Train B Auxiliary Building Isolation

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN** _____

OBTAIN a valid Containment Purge Release Package. _____

Data Package: Page ____ of ____

Date _____

6.3.5 Simulated Train B Auxiliary Building Isolation (continued)

[3] **ENSURE** the following Containment Purge Valves are OPEN as indicated on their respective handswitches on 2-M-9:

2-FCV-30-2	2-HS-30-2, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2A DISCHARGE	2-HS-30-2, Red Light ON	_____
2-FCV-30-5	2-HS-30-5, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2B DISCHARGE	2-HS-30-5, Red Light ON	_____
2-FCV-30-61	2-HS-30-61, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2A SUCTION	2-HS-30-61, Red Light ON	_____
2-FCV-30-62	2-HS-30-62, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2B SUCTION	2-HS-30-62, Red Light ON	_____
2-FCV-30-7	2-HS-30-7, Green Light for 7 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-7, Red Light for 7 ON	_____
2-FCV-30-51	2-HS-30-7, Green Light for 51 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-7, Red Light for 51 ON	_____
2-FCV-30-8	2-HS-30-8, Green Light for 8 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-8, Red Light for 8 ON	_____
2-FCV-30-50	2-HS-30-8, Green Light for 50 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-8, Red Light for 50 ON	_____
2-FCV-30-9	2-HS-30-9, Green Light for 9 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-9, Red Light for 9 ON	_____
2-FCV-30-53	2-HS-30-9, Green Light for 53 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-9, Red Light for 53 ON	_____
2-FCV-30-10	2-HS-30-10, Green Light for 10 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-10, Red Light for 10 ON	_____
2-FCV-30-52	2-HS-30-10, Green Light for 52 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-10, Red Light for 52 ON	_____

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Date _____

6.3.5 Simulated Train B Auxiliary Building Isolation (continued)

[4] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-213:

A. Green Light OFF _____

B. Red Light ON _____

[5] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-216:

A. Green Light OFF _____

B. Red Light ON _____

[6] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-4A:

A. Green Light for SUP is OFF _____

B. Red Light for SUP is ON _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is ON _____

[7] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-11A:

A. Green Light for SUP is OFF _____

B. Red Light for SUP is ON _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is ON _____

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Date _____

6.3.5 Simulated Train B Auxiliary Building Isolation (continued)

NOTE

The following steps will simulate a Train B Auxiliary Building Isolation (ABI) signal and ABI signal reset by opening and closing a switch on jumper installed in Auxiliary Relay Panel 2-R-76.

- [8] **PLACE** switch on jumper installed in step 4.3[9]B at 2-R-76, at TB646, between Pt. 3 and Pt. 4 to OFF. _____

- [9] **VERIFY** on 2-HS-30-4A, [2-M-9]:
 - A. Green Light for SUP is ON (**Acc Crit**) _____
 - B. Red Light for SUP is OFF (**Acc Crit**) _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

- [10] **VERIFY** on 2-HS-30-11A, [2-M-9]:
 - A. Green Light for SUP is ON (**Acc Crit**) _____
 - B. Red Light for SUP is OFF (**Acc Crit**) _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

- [11] **PLACE** switch on jumper installed in step 4.3[9]B at 2-R-76, at TB646, between Pt. 3 and Pt. 4 to ON. _____

- [12] **VERIFY** on 2-HS-30-4A, [2-M-9]:
 - A. Green Light for SUP is ON _____
 - B. Red Light for SUP is OFF _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

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Date _____

6.3.5 Simulated Train B Auxiliary Building Isolation (continued)

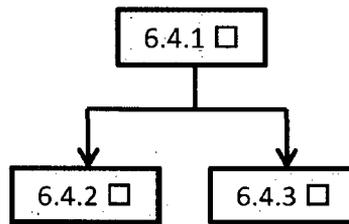
[13] **VERIFY** on 2-HS-30-11A, [2-M-9]:

- A. Green Light for SUP is ON _____
- B. Red Light for SUP is OFF _____
- C. Green Light for EXH is ON _____
- D. Red Light for EXH is OFF _____

6.4 Smoke Signals Simulation Test

NOTES

- 1) The SubSections of this Section shall be performed per the flow chart below.



- 2) SubSection 6.4.1 shall be performed first, followed by SubSections 6.4.2 and 6.4.3 performed in any order. Steps within each SubSection are to be performed in the order written. The flowchart above may be used as a placekeeping tool throughout the performance of Section 6.4.
- 3) Some Containment Purge Valve Handswitches control two Containment Purge valves. Refer to Section 6.1 for Handswitch labeling notes.
- 4) Containment Purge Valve Handswitches require holding in OPEN position long enough for open interlock stem switches to make up at end of travel (Red Light(s) ON, Green Light(s) OFF). Handswitches spring return to A AUTO from OPEN (except 2-HS-30-213 and -216, which have no A AUTO position).
- 5) Each Containment Purge Fan Handswitch controls both a supply and exhaust fan. Refer to Section 6.2 for Handswitch labeling notes.
- 6) Containment Purge Fan Handswitches spring return to A AUTO from STOP and START positions.

6.4.1 Preliminary Actions

- [1] **VERIFY** prerequisites listed in Section 4.0 for SubSection 6.4 have been completed.

Data Package: Page ____ of ____

Date _____

6.4.1 Preliminary Actions (continued)

[2] **ENSURE** the following Containment Purge Valves are OPEN as indicated on their respective handswitches on 2-M-9:

2-FCV-30-2	2-HS-30-2, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2A DISCHARGE	2-HS-30-2, Red Light ON	_____
2-FCV-30-5	2-HS-30-5, Green Light OFF	_____
CONTAINMENT PURGE AIR		
SUPPLY FAN 2B DISCHARGE	2-HS-30-5, Red Light ON	_____
2-FCV-30-61	2-HS-30-61, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2A SUCTION	2-HS-30-61, Red Light ON	_____
2-FCV-30-62	2-HS-30-62, Green Light OFF	_____
CONTAINMENT PURGE AIR		
EXHAUST FAN 2B SUCTION	2-HS-30-62, Red Light ON	_____
2-FCV-30-7	2-HS-30-7, Green Light for 7 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-7, Red Light for 7 ON	_____
2-FCV-30-51	2-HS-30-7, Green Light for 51 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-7, Red Light for 51 ON	_____
2-FCV-30-8	2-HS-30-8, Green Light for 8 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-8, Red Light for 8 ON	_____
2-FCV-30-50	2-HS-30-8, Green Light for 50 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-8, Red Light for 50 ON	_____
2-FCV-30-9	2-HS-30-9, Green Light for 9 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-9, Red Light for 9 ON	_____
2-FCV-30-53	2-HS-30-9, Green Light for 53 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-9, Red Light for 53 ON	_____
2-FCV-30-10	2-HS-30-10, Green Light for 10 OFF	_____
UPPER COMPT PURGE ISOL		
VALVE	2-HS-30-10, Red Light for 10 ON	_____
2-FCV-30-52	2-HS-30-10, Green Light for 52 OFF	_____
CNTMT UPPER COMPARTMENT		
EXHAUST ISOLATION	2-HS-30-10, Red Light for 52 ON	_____

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Date _____

6.4.1 Preliminary Actions (continued)

[3] **ENSURE** Handswitch 2-HS-30-213, PURGE EXH FAN 2A TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-213:

A. Green Light OFF _____

B. Red Light ON _____

[4] **ENSURE** Handswitch 2-HS-30-216, PURGE EXH FAN 2B TO SHIELD BLDG VNT, [2-M-9], is in OPEN, **AND**

VERIFY on 2-HS-30-216:

A. Green Light OFF _____

B. Red Light ON _____

[5] **NOTIFY** Unit 1 Operations that performance of the SubSection 6.4 requires access into Unit 1 equipment (0-L-609 and 0-L-623) for lifting and landing of wires and placement of handheld jumpers. _____

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Date _____

6.4.2 Simulated Smoke Detection in Zones 100 and 101

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], in START, **AND**

VERIFY on 2-HS-30-1A:

A. Green Light for SUP OFF _____

B. Red Light for SUP ON _____

C. Green Light for EXH OFF _____

D. Red Light for EXH ON _____

[4] **LIFT** black Wire 15D3 from Terminal Point 5 (NC) on SR 30, Zone Relay 18 in 0-L-609 [A13T/713], to simulate a purge exhaust duct smoke signal in Zone 101 (45W1699-29). _____

1st

CV

[5] **VERIFY** on 2-HS-30-1A, [2-M-9]:

A. Green Light for SUP is ON (**Acc Crit**) _____

B. Red Light for SUP is OFF (**Acc Crit**) _____

C. Green Light for EXH is ON _____

D. Red Light for EXH is OFF _____

[6] **LAND** black Wire 15D3 on Terminal Point 5 (NC) on SR 30, Zone Relay 18 in 0-L-609, to simulate a purge exhaust duct smoke signal in Zone 101 reset. _____

1st

CV

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Data Package: Page ____ of ____ Date _____

6.4.2 Simulated Smoke Detection in Zones 100 and 101 (continued)

- [7] **VERIFY** on 2-HS-30-1A, [2-M-9]:
 - A. Green Light for SUP is ON _____
 - B. Red Light for SUP is OFF _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

- [8] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9], in START, **AND**

VERIFY on 2-HS-30-4A:

 - A. Green Light for SUP is OFF _____
 - B. Red Light for SUP is ON _____
 - C. Green Light for EXH is OFF _____
 - D. Red Light for EXH is ON _____

- [9] **LIFT** black Wire 15D3 from Terminal Point 2 (NC) on SR 30, Zone Relay 17 in 0-L-609, to simulate a purge exhaust duct smoke signal in Zone 100 (45W1699-29).

_____ 1st

_____ CV

- [10] **VERIFY** on 2-HS-30-4A, [2-M-9]:
 - A. Green Light for SUP is ON (**Acc Crit**) _____
 - B. Red Light for SUP is OFF (**Acc Crit**) _____
 - C. Green Light for EXH is ON _____
 - D. Red Light for EXH is OFF _____

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Date _____

6.4.2 Simulated Smoke Detection in Zones 100 and 101 (continued)

[11] **LAND** Wire 15D3 on Terminal Point 2 (NC) on SR 30, Zone Relay 17 in 0-L-609, to simulate a purge exhaust duct smoke signal in Zone 100 reset.

1st

CV

[12] **VERIFY** on 2-HS-30-4A, [2-M-9]:

- A. Green Light for SUP is ON
- B. Red Light for SUP is OFF
- C. Green Light for EXH is ON
- D. Red Light for EXH is OFF

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Date _____

6.4.3 Simulated Smoke Detection in Zones 138 and 139

[1] **CONTACT** Chemistry to determine if the current Containment Purge Release Package is still valid. _____

[2] **IF** current Release Package is NOT still valid, **THEN**
OBTAIN a valid Containment Purge Release Package. _____

[3] **PLACE** Handswitch 2-HS-30-1A, CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-1A:

A. Green Light for SUP is OFF _____

B. Red Light for SUP is ON _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is ON _____

[4] **PLACE** Handswitch 2-HS-30-4A, CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-4A:

A. Green Light for SUP is OFF _____

B. Red Light for SUP is ON _____

C. Green Light for EXH is OFF _____

D. Red Light for EXH is ON _____

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6.4.3 Simulated Smoke Detection in Zones 138 and 139 (continued)

[5] **PLACE** Handswitch 2-HS-30-11A, INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B, [2-M-9], to START, **AND**

VERIFY on 2-HS-30-11A:

- A. Green Light for SUP is OFF _____
- B. Red Light for SUP is ON _____
- C. Green Light for EXH is OFF _____
- D. Red Light for EXH is ON _____

NOTE

The following step will shut down Unit 2 Auxiliary Building Ventilation.

[6] **ENSURE** that the following fans are SHUT DOWN in accordance with SOI-30.05:

- A. Auxiliary Building General Supply Fan 2A _____
- B. Auxiliary Building General Supply Fan 2B _____
- C. Auxiliary Building General Exhaust Fan 2A _____
- D. Auxiliary Building General Exhaust Fan 2B _____

Data Package: Page ____ of ____ Date _____

6.4.3 Simulated Smoke Detection in Zones 138 and 139 (continued)

NOTE

Auxiliary Building General Supply Fans 2A and 2B will receive a STOP signal on the following step.

- | | | |
|------|--|---|
| [7] | <p>MOMENTARILY PLACE a jumper between Terminal Points 1 (C) and 4 (NO) on SR 30, in 0-L-623, [A12S/737], to simulate a Unit 2 Auxiliary Building air intake smoke signal in Zone 138 AND 139 (45W1699-31).</p> | <hr style="border: 0; border-top: 1px solid black;"/> 1st
<hr style="border: 0; border-top: 1px solid black;"/> CV |
| [8] | <p>VERIFY on 2-HS-30-1A, [2-M-9]:</p> <ul style="list-style-type: none"> A. Green Light for SUP is ON (Acc Crit) B. Red Light for SUP is OFF (Acc Crit) C. Green Light for EXH is ON D. Red Light for EXH is OFF | <hr/>
<hr/>
<hr/>
<hr/> |
| [9] | <p>VERIFY on 2-HS-30-4A, [2-M-9]:</p> <ul style="list-style-type: none"> A. Green Light for SUP is ON (Acc Crit) B. Red Light for SUP is OFF (Acc Crit) C. Green Light for EXH is ON D. Red Light for EXH is OFF | <hr/>
<hr/>
<hr/>
<hr/> |
| [10] | <p>VERIFY on 2-HS-30-11A, [2-M-9]:</p> <ul style="list-style-type: none"> A. Green Light for SUP is ON (Acc Crit) B. Red Light for SUP is OFF (Acc Crit) C. Green Light for EXH is ON D. Red Light for EXH is OFF | <hr/>
<hr/>
<hr/>
<hr/> |

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Date _____

6.4.3 Simulated Smoke Detection in Zones 138 and 139 (continued)

[11] **NOTIFY** Operations the following fans may be placed in operation as required:

- Auxiliary Building General Supply Fan 2A
 - Auxiliary Building General Supply Fan 2B
 - Auxiliary Building General Exhaust Fan 2A
 - Auxiliary Building General Exhaust Fan 2B
-

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Date _____

6.5 Containment Purge Fan Air Flows

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

[2] **ENSURE** combined fan air flow measurement for Fan 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, and Fan 2-FAN-030-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B, has been performed using GTM-05, HVAC Air Balance, **AND**

ENSURE completed GTM-05 data sheets are attached. _____

[3] **RECORD** the combined air flow measurement for Fans 2-FAN-30-1, CONTAINMENT PURGE AIR SUPPLY FAN 2A, and 2-FAN-030-4, CONTAINMENT PURGE AIR SUPPLY FAN 2B below, **AND**

VERIFY it meets acceptance criteria

_____ CFM

Acc Crit: 22,949 CFM minimum _____

[4] **ENSURE** combined fan air flow measurement for Fan 2-FAN-30-1E, CONTAINMENT PURGE AIR EXHAUST FAN 2A, and Fan 2-FAN-30-4E, CONTAINMENT PURGE AIR EXHAUST FAN 2B, has been performed using GTM-05, HVAC Air Balance, **AND**

ENSURE completed GTM-05 data sheets are attached. _____

[5] **RECORD** the combined air flow measurement for Fans 2-FAN-30-1E, CONTAINMENT PURGE AIR EXHAUST FAN 2A, and 2-FAN-30-4E, CONTAINMENT PURGE AIR EXHAUST FAN 2B, below, **AND**

VERIFY it meets acceptance criteria

_____ CFM

Acc Crit: 22,949 CFM minimum _____

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Date _____

6.5 Containment Purge Fan Air Flows (continued)

- [6] **ENSURE** fan air flow measurement for Fan 2-FAN-30-11, CNTMT INCORE INSTR ROOM SUPPLY FAN, has been performed using GTM-05, HVAC Air Balance, **AND**

ENSURE completed GTM-05 data sheets are attached. _____

- [7] **RECORD** the air flow measurement for Fan 2-FAN-30-11, CNTMT INCORE INSTR ROOM SUPPLY FAN, below, **AND**

VERIFY it meets acceptance criteria:

_____ CFM
Acc Crit: 650 CFM minimum

- [8] **ENSURE** fan air flow measurement for Fan 2-FAN-30-11E, CNTMT INCORE INSTR ROOM EXHAUST FAN, has been performed using GTM-05, HVAC Air Balance, **AND**

ENSURE completed GTM-05 data sheets are attached. _____

- [9] **RECORD** the air flow measurement for Fan 2-FAN-30-11E, CNTMT INCORE INSTR ROOM EXHAUST FAN, below, **AND**

VERIFY it meets acceptance criteria

_____ CFM
Acc Crit: 540 CFM minimum

- [10] **CALCULATE** the difference between the Incore Instrument Room Supply and Exhaust Fan flows recorded in Steps 6.5[7], and 6.5[9], **AND**

VERIFY it meets acceptance criteria

_____ CFM - _____ CFM = _____ CFM
step 6.5[7] step6.5[9] Δ Flow

Acc Crit: 110 CFM minimum differential flow

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Date _____

6.5 Containment Purge Fan Air Flows (continued)

[11] **ENSURE** differential pressure (ΔP) measurement between the Incore Instrument Room and the surrounding areas of Lower Containment has been performed using GTM-05, HVAC Air Balance, **AND**

ENSURE completed GTM-05 data sheets are attached. _____

[12] **RECORD** the ΔP measurement between the Incore Instrument Room and the surrounding areas of Lower Containment below, **AND**

VERIFY that the Incore Instrument Room is positively pressurized relative to the surrounding areas of Lower Containment. **(Acc Crit)**

$\Delta P =$ _____

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Date _____

6.6 System Restoration

- [1] **ENSURE** sections 6.1 through 6.5 have been completed. _____

- [2] **REMOVE** switched jumpers from the following locations:
 - A. TB646, between Pt. 1 and Pt. 2 (Wire CPD8 and CPD11)
in Auxiliary Relay Panel 2-R-76. (Installed in Step 4.3[9]A) _____
1st

CV

 - B. TB646, between Pt. 3 and Pt. 4 (Wire CPD9 and CPD10)
in Auxiliary Relay Panel 2-R-76. (Installed in Step 4.3[9]B) _____
1st

CV

- [3] **ENSURE** system is configured in accordance with Appendix E,
Final System Alignment. _____

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Date _____

7.0 POST PERFORMANCE ACTIVITY

- [1] **NOTIFY** the Unit 2 US/SRO of the test completion and system alignment. _____

- [2] **NOTIFY** the Unit 1 US/SRO of the test completion and system alignment. _____

8.0 RECORDS

- A. QA Records
Completed Test Package.

- B. Non-QA Records
None

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**Appendix A
(Page 1 of 1)**

TEST PROCEDURES/INSTRUCTIONS REFERENCE REVIEW

Data Package: Page ____ of ____

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)
GTM-05			
SOI-30.05			
FSAR Section 9.4.6 Table 14.2-1, Sh 38 & 39 Table 14.2-1, Sh 83			
WBN2-30RB-4002			
2-TSD-30J-1			
2-TSD-88-5			
G-37			
GTI-02			
2-PTI-064-01			
2-PTI-030J-02			

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**Appendix C
(Page 1 of 2)
SWITCH LINEUP**

Data Package: Page ____ of ____

Date _____

SWITCH NUMBER	SWITCH LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-HS-30-1A	2-M-9	CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B	STOP PULL TO LOCK	
2-HS-30-4A	2-M-9	CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B	STOP PULL TO LOCK	
2-HS-30-11A	2-M-9	INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B	STOP PULL TO LOCK	
2-HS-30-2	2-M-9	PURGE SUPPLY FAN 2A DISCH	CLOSE	
2-HS-30-5	2-M-9	PURGE SUPPLY FAN 2B DISCH	CLOSE	
2-HS-30-7	2-M-9	UPR CNTMT PURGE 2-FCV-30-7 & 51	CLOSE	
2-HS-30-8	2-M-9	UPR CNTMT PURGE 2-FCV-30-8 & 50	CLOSE	
2-HS-30-9	2-M-9	UPR CNTMT PURGE 2-FCV-30-9 & 53	CLOSE	
2-HS-30-10	2-M-9	UPR CNTMT PURGE 2-FCV-30-10 & 52	CLOSE	
2-HS-30-12	2-M-9	ANNULUS PURGE SUPPLY	CLOSE	
2-HS-30-14	2-M-9	LWR CNTMT PURGE 2-FCV-30-14 & 56	CLOSE	
2-HS-30-15	2-M-9	LWR CNTMT PURGE 2-FCV-30-15 & 57	CLOSE	
2-HS-30-16	2-M-9	LWR CNTMT PURGE SUP	CLOSE	
2-HS-30-17	2-M-9	LWR CNTMT PURGE SUP	CLOSE	
2-HS-30-19	2-M-9	INSTR RM PURGE 2-FCV-30-19 & 58	CLOSE	
2-HS-30-20	2-M-9	INSTR RM PURGE 2-FCV-30-20 & 59	CLOSE	
2-HS-30-37	2-M-9	LWR CNTMT PURGE EXH PRESS RLF	CLOSE	
2-HS-30-40	2-M-9	LWR CNTMT PURGE EXH PRESS RLF	CLOSE	
2-HS-30-54	2-M-9	ANNULUS PURGE EXH	CLOSE	
2-HS-30-61	2-M-9	PURGE EXH FAN A SUCT	CLOSE	
2-HS-30-62	2-M-9	PURGE EXH FAN B SUCT	CLOSE	
2-HS-30-213	2-M-9	PURGE EXH FAN 2A TO SHIELD BLDG VNT	CLOSE	
2-HS-30-216	2-M-9	PURGE EXH FAN 2B TO SHIELD BLDG VNT	CLOSE	

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**Appendix C
(Page 2 of 2)
SWITCH LINEUP**

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Date _____

SWITCH NUMBER	SWITCH LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-XS-30-1080A	2-JB-292-8205-A [A11Q/757] (Vit Batt Bd Rm III)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1080B	2-JB-292-8205-A [A11Q/757] (Vit Batt Bd Rm III)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1085A	2-JB-292-8223-B [A12Q/757] (Vit Batt Bd Rm IV)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1085B	2-JB-292-8223-B [A12Q/757] (Vit Batt Bd Rm IV)	CONTROL ROOM ISOLATION DAMPER	ON	
2-HS-30-294B	2-JB-292-6412-A, [A13U/737]	PURGE AIR SUPPLY ISOLATION DAMPER	NORMAL-CLOSE	
2-HS-30-295B	2-JB-292-6413-B [A13U/737]	PURGE AIR SUPPLY ISOLATION DAMPER	NORMAL-CLOSE	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 201 of 208
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**Appendix D
(Page 1 of 6)**

ELECTRICAL LINEUP

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Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-BKR-30-1	480V RX VT BD 2A-A, COMPT 15D	CNTMT PURGE SUP FAN 2A (2-FAN-30-1)	ON	
2-BKR-30-1E	480V RX VT BD 2A-A, COMPT 16D	CNTMT PURGE EXH FAN 2A (2-FAN-30-1E)	ON	
2-BKR-30-4	480V RX VT BD 2B-B, COMPT 15D	CNTMT PURGE SUP FAN 2B (2-FAN-30-4)	ON	
2-BKR-30-4E	480V RX VT BD 2B-B, COMPT 16D	CNTMT PURGE EXH FAN 2B (2-FAN-30-4E)	ON	
2-BKR-30-11	480V RX VT BD 2B-B, COMPT 5E	CNTMT INCORE INSTR RM SUP FAN (2-FAN-30-11)	ON	
2-BKR-30-11E	480V RX VT BD 2B-B, COMPT 6E	CNTMT INCORE INSTR ROOM EXH FAN (2-FAN-30-11E)	ON	
2-BKR-30-294	120V AC VITAL INSTR POWER BOARD 2-I, BKR 28	CNTMT PURGE ISLNN DAMPER 2-FCO-30-294	ON	
2-BKR-30-295	120V AC VITAL INSTR POWER BOARD 2-II, BKR 28	CNTMT PURGE ISLNN DAMPER 2-FCO-30-295	ON	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 202 of 208
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**Appendix D
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ELECTRICAL LINEUP

Data Package: Page ____ of ____

Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
0-FU-236-3/B26	125V DC BATT BD III, CKT B26	2-FCV-30-2	INSTALLED	
0-FU-236-3/B27	125V DC BATT BD III, CKT B27	2-FCV-30-61	INSTALLED	
0-FU-236-3/B28	125V DC BATT BD III, CKT B28	2-FCV-30-54	INSTALLED	
0-FU-236-3/B29	125V DC BATT BD III, CKT B29	2-FCV-30-10&52	INSTALLED	
0-FU-236-3/B30	125V DC BATT BD III, CKT B30	2-FCV-30-14&56	INSTALLED	
0-FU-236-3/B32	125V DC BATT BD III, CKT B32	2-FCV-30-20&59	INSTALLED	
0-FU-236-3/B36	125V DC BATT BD III, CKT B36	2-FCV-30-40	INSTALLED	
0-FU-236-3/B39	125V DC BATT BD III, CKT B39	2-FCV-30-7&51	INSTALLED	
0-FU-236-3/B40	125V DC BATT BD III, CKT B40	2-FCV-30-12	INSTALLED	
0-FU-236-3/C8	125V DC BATT BD III, CKT C8	2-FCV-30-62	INSTALLED	
0-FU-236-3/C46	125V DC BATT BD III, CKT C46	2-FCV-30-17	INSTALLED	
0-FU-236-3/C47	125V DC BATT BD III, CKT C47	2-FCV-30-5	INSTALLED	
0-FU-236-3/D10	125V DC BATT BD III, CKT D10	2-FCV-30-213	INSTALLED	

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ELECTRICAL LINEUP

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Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
0-FU-236-4/A35	125V DC BATT BD IV, CKT A35	2-FCV-30-37	INSTALLED	
0-FU-236-4/A40	125V DC BATT BD IV, CKT A40	2-FCV-30-16	INSTALLED	
0-FU-236-4/B26	125V DC BATT BD IV, CKT B26	2-FCV-30-8&50	INSTALLED	
0-FU-236-4/B30	125V DC BATT BD IV, CKT B30	2-FCV-30-9&53	INSTALLED	
0-FU-236-4/B32	125V DC BATT BD IV, CKT B32	2-FCV-30-15&57	INSTALLED	
0-FU-236-4/B34	125V DC BATT BD IV, CKT B34	2-FCV-30-19&58	INSTALLED	
0-FU-236-4/D16	125V DC BATT BD IV, CKT D16	2-FCV-30-216	INSTALLED	

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**Appendix D
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ELECTRICAL LINEUP

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Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-BKR-238-1/19	120V AC PREFERRED POWER BOARD 2, BKR 19	PANEL 2-M-9 IND LIGHTS	ON	
2-FU-278-M9/3	2-M-9	FOR 2-XFMR-278-M9/184	INSTALLED	
2-FU-278-M9/4	2-M-9	FOR 2-XFMR-278-M9/184	INSTALLED	
2-FU-278-M9/5	2-M-9	FOR 2-XFMR-278-M9/188	INSTALLED	
2-FU-278-M9/6	2-M-9	FOR 2-XFMR-278-M9/188	INSTALLED	
2-BKR-235-1/7	120V AC VITAL INSTR POWER BOARD 2-I, BKR 7	AUX RELAY RACK 2-R-76 BUS A	ON	
2-BKR-235-2/6	120V AC VITAL INSTR POWER BOARD 2-II, BKR 6	AUX RELAY RACK 2-R-76 BUS B	ON	
2-BKR-235-2/9	120V AC VITAL INSTR POWER BOARD 2-II, BKR 9	AUX RELAY RACK B BUS TO PNL 2-R-75	ON	
2-BKR-235-3/30	120V AC VITAL INSTR POWER BOARD 2-III, BKR 30	SEPERATION AUX RELAY PANELS 2-R-73/2-R-74	ON	
2-FU-275-R73/K23	2-R-73 Row K, Fuse 23	PURGE AIR & ANNULUS ISOSEP RELAY (RELAY 615A2)	INSTALLED	
2-FU-275-R73/K24	2-R-73 Row K, Fuse 24	PURGE AIR & ANNULUS ISOSEP RELAY (RELAY 615A2)	INSTALLED	
2-FU-275-R75/I11	2-R-75 Row I, Fuse 11	FCO-30-2,5,61,62,12,54 SEPARATION RELAY (RELAY 615C1)	INSTALLED	
2-FU-275-R75/I12	2-R-75 Row I, Fuse 12	FCO-30-2,5,61,62,12,54 SEPARATION RELAY (RELAY 615C1)	INSTALLED	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 205 of 208
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**Appendix D
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ELECTRICAL LINEUP

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Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-FU-275-R76/J9	2-R-76 Row J, Fuse 9	CNTMT PURGE AIR SUPPLY FAN 2A (RELAY CPD5)	INSTALLED	
2-FU-275-R76/J10	2-R-76 Row J, Fuse 10	CNTMT PURGE AIR SUPPLY FAN 2A (RELAY CPD5)	INSTALLED	
2-FU-275-R76/J11	2-R-76 Row J, Fuse 11	CNTMT PURGE AIR SUP FANINCORE SUP FAN SEP RLYS (RELAY CPD2)	INSTALLED	
2-FU-275-R76/J12	2-R-76 Row J, Fuse 12	CNTMT PURGE AIR SUP FANINCORE SUP FAN SEP RLYS (RELAY CPD2)	INSTALLED	
2-FU-275-R76/K3	2-R-76 Row K, Fuse 3	FCO-30-1A, 1B, 4A, 4B, 11A, & 11B SEP RELAY (RELAY 615A1)	INSTALLED	
2-FU-275-R76/K4	2-R-76, Row K, Fuse 4	FCO-30-1A, 1B, 4A, 4B, 11A, & 11B SEP RELAY (RELAY 615A1)	INSTALLED	
2-FU-275-R76/L11	2-R-76 Row L, Fuse 11	CNTMT PURGE AIR SUP ISO DAMPER SEP RELAY (RELAY CPDA)	INSTALLED	
2-FU-275-R76/L12	2-R-76 Row L, Fuse 12	CNTMT PURGE AIR SUP ISO DAMPER SEP RELAY (RELAY CPDA)	INSTALLED	
2-FU-275-R76/L13	2-R-76 Row L, Fuse 13	CNTMT PURGE AIR SUP ISO DAMPER SEP RELAY (RELAY CPDB)	INSTALLED	
2-FU-275-R76/L14	2-R-76 Row L, Fuse 14	CNTMT PURGE AIR SUP ISO DAMPER SEP RELAY (RELAY CPDB)	INSTALLED	
2-FU-275-R76/L19	2-R-76 Row L, Fuse 19	FCO-30-1A,1B,4A,4B,11A,&11B SEP RELAY (RELAY 615B1)	INSTALLED	
2-FU-275-R76/L20	2-R-76 Row L, Fuse 20	FCO-30-1A,1B,4A,4B,11A,&11B SEP RELAY (RELAY 615B1)	INSTALLED	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 206 of 208
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ELECTRICAL LINEUP

Data Package: Page ____ of ____

Date _____

IDENTIFICATION	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-FU-275-R76/M1	2-R-76 Row M, Fuse 1	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD3)	INSTALLED	
2-FU-275-R76/M2	2-R-76 Row M, Fuse 2	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD4)	INSTALLED	
2-FU-275-R76/M3	2-R-76 Row M, Fuse 3	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD3)	INSTALLED	
2-FU-275-R76/M4	2-R-76 Row M, Fuse 4	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD4)	INSTALLED	
2-FU-275-R76/M6	2-R-76 Row M, Fuse 6	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD1)	INSTALLED	
2-FU-275-R76/M7	2-R-76 Row M, Fuse 7	CNTMT PURGE AIR SUPPLY ISOL DAMPER SEP RELAY (RELAY CPD1)	INSTALLED	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 207 of 208
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**Appendix E
(Page 1 of 2)**

FINAL SYSTEM ALIGNMENT

Data Package: Page ____ of ____

Date _____

UNID	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-HS-30-1A	2-M-9	CNTMT PURGE SUP & EXH FANS 2A AND FCO-30-1A & 1B	STOP PULL TO LOCK	
2-HS-30-4A	2-M-9	CNTMT PURGE SUP & EXH FANS 2B AND FCO-30-4A & 4B	STOP PULL TO LOCK	
2-HS-30-11A	2-M-9	INSTR RM PURGE SUP & EXH FANS AND FCO-30-11A & 11B	STOP PULL TO LOCK	
2-HS-30-2	2-M-9	PURGE SUPPLY FAN 2A DISCH	CLOSE	
2-HS-30-5	2-M-9	PURGE SUPPLY FAN 2B DISCH	CLOSE	
2-HS-30-7	2-M-9	UPR CNTMT PURGE 2-FCV-30-7 & 51	CLOSE	
2-HS-30-8	2-M-9	UPR CNTMT PURGE 2-FCV-30-8 & 50	CLOSE	
2-HS-30-9	2-M-9	UPR CNTMT PURGE 2-FCV-30-9 & 53	CLOSE	
2-HS-30-10	2-M-9	UPR CNTMT PURGE 2-FCV-30-10 & 52	CLOSE	
2-HS-30-12	2-M-9	ANNULUS PURGE SUPPLY	CLOSE	
2-HS-30-14	2-M-9	LWR CNTMT PURGE 2-FCV-30-14 & 56	CLOSE	
2-HS-30-15	2-M-9	LWR CNTMT PURGE 2-FCV-30-15 & 57	CLOSE	
2-HS-30-16	2-M-9	LWR CNTMT PURGE SUP	CLOSE	
2-HS-30-17	2-M-9	LWR CNTMT PURGE SUP	CLOSE	
2-HS-30-19	2-M-9	INSTR RM PURGE 2-FCV-30-19 & 58	CLOSE	
2-HS-30-20	2-M-9	INSTR RM PURGE 2-FCV-30-20 & 59	CLOSE	
2-HS-30-37	2-M-9	LWR CNTMT PURGE EXH PRESS RLF	CLOSE	
2-HS-30-40	2-M-9	LWR CNTMT PURGE EXH PRESS RLF	CLOSE	
2-HS-30-54	2-M-9	ANNULUS PURGE EXH	CLOSE	
2-HS-30-61	2-M-9	PURGE EXH FAN A SUCT	CLOSE	
2-HS-30-62	2-M-9	PURGE EXH FAN B SUCT	CLOSE	
2-HS-30-213	2-M-9	PURGE EXH FAN 2A TO SHIELD BLDG VNT	CLOSE	
2-HS-30-216	2-M-9	PURGE EXH FAN 2B TO SHIELD BLDG VNT	CLOSE	

WBN Unit 2	Containment Purge	2-PTI-030J-01 Rev. 0000 Page 208 of 208
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**Appendix E
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FINAL SYSTEM ALIGNMENT

Data Package: Page ____ of ____

Date _____

UNID	LOCATION	NOMENCLATURE	POSITION	VERIFIED BY INITIAL
2-XS-30-1080A	2-JB-292-8205-A [A11Q/757] (Vit Batt Bd Rm III)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1080B	2-JB-292-8205-A [A11Q/757] (Vit Batt Bd Rm III)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1085A	2-JB-292-8223-B [A12Q/757] (Vit Batt Bd Rm IV)	CONTROL ROOM ISOLATION DAMPER	ON	
2-XS-30-1085B	2-JB-292-8223-B [A12Q/757] (Vit Batt Bd Rm IV)	CONTROL ROOM ISOLATION DAMPER	ON	
2-HS-30-294B	2-JB-292-6412-A, [A13U/737]	PURGE AIR SUPPLY ISOLATION DAMPER	NORMAL- CLOSE	
2-HS-30-295B	2-JB-292-6413-B [A13U/737]	PURGE AIR SUPPLY ISOLATION DAMPER	NORMAL- CLOSE	
2-BKR-30-1	480V RX VT BD 2A-A, COMPT 15D	CNTMT PURGE SUP FAN 2A (2-FAN-30-1)	OFF	
2-BKR-30-1E	480V RX VT BD 2A-A, COMPT 16D	CNTMT PURGE EXH FAN 2A (2-FAN-30-1E)	OFF	
2-BKR-30-4	480V RX VT BD 2B-B, COMPT 15D	CNTMT PURGE SUP FAN 2B (2-FAN-30-4)	OFF	
2-BKR-30-4E	480V RX VT BD 2B-B, COMPT 16D	CNTMT PURGE EXH FAN 2B (2-FAN-30-4E)	OFF	
2-BKR-30-11	480V RX VT BD 2B-B, COMPT 5E	CNTMT INCORE INSTR RM SUP FAN (2-FAN-30-11)	OFF	
2-BKR-30-11E	480V RX VT BD 2B-B, COMPT 6E	CNTMT INCORE INSTR ROOM EXH FAN (2-FAN-30-11E)	OFF	
2-BKR-30-294	120V AC VITAL INSTR POWER BOARD 2-I, BKR 28	CNTMT PURGE ISLN DAMPER 2-FCO-30-294	ON	
2-BKR-30-295	120V AC VITAL INSTR POWER BOARD 2-II, BKR 28	CNTMT PURGE ISLN DAMPER 2-FCO-30-295	ON	