

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

September 8, 2011

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

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

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

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

PTI NUMBER	Rev.	TITLE	
2-PTI-067-03	0	ERCW Valve Logic Test	

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

Respectfully,

David Stinson

Watts Bar Unit 2 Vice President

Enclosure cc (Enclosure):

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

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

NA

WATTS BAR NUCLEAR PLANT **UNIT 2 STARTUP** TITLE: ERCW Valve Logic Test Instruction No: 2-PTI-067-03 Revision No: 0000 **INSTRUCTION APPROVAL** JTG MEETINGWO: 2-11-015 JTG CHAIRMAN APPROVED BY: PREOPERATIONAL STARTUP MANAGER TEST RESULTS APPROVAL JTG MEETING NO: ___ JTG CHAIRMAN: DATE APPROVED BY: DATE ____ PREOPERATIONAL STARTUP MANAGER

SMP-8.0, R4, Administration of Preoperational Test Instructions, Appendix B

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Revision Log

Revision or Change Number	Effective Date	Affected Page Numbers	Description of Revision/Change
0000	9/1/11.	Ail	Initial Issue based on 1-PTI-067-03 Rev 0

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ERCW VALVE LOGIC TEST

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1.0 INTRODUCTION

1.1 Test Objectives

Demonstrate the capability of each train of the Unit 2 Essential Raw Cooling Water System (ERCW) to supply required cooling water flow to assigned loads in all modes of operation.

1.2 Scope

This PTI will verify the manual and automatic control functions, interlocks, instrumentation and time response associated with the Unit 2 ERCW Non-Safeguard valves functions in accordance with design documents. Unit 2 ERCW valves previously tested during Unit 1 preoperational testing are not included in the scope of this PTI.

2.0 REFERENCES

2.1 Performance References

- A. SMP-9.0, Conduct Of Test
- B. SOI-30.03, Containment HVAC and Pressure Control

2.2 Developmental References

- A. Unit 2 Final Safety Analysis Report Amendment 104
 - 1. Section 9.2.1
 - 2. Table 14.2-1, Sheet 4 and 5 of 89

B. Drawings

- 1. Flow Diagrams
 - a. 2-47W845-2 Rev 2, Flow Diagram Essential Raw Cooling Water
 - b. 2-47W845-3 Rev 3, Flow Diagram Essential Raw Cooling Water
 - c. 2-47W848-5 Rev 2, Flow Diagram Control Air

53276-304 Rev 0

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2.2 Developmental References (continued)

d. 2-47W848-9 Rev 1, Flow Diagram Control Air

2. Electrical

a. 2-45W600-67-1 Rev 0, Essential Raw Cooling Water System Schematic Diagram Sh 1

54124-34 Rev 0

- b. 2-45W600-67-2 Rev 0, Essential Raw Cooling Water System Schematic Diagram Sh 2
- c. 2-45W760-30-8 Rev 1, Ventilating System Schematic Diagrams
- d. 2-45W760-30-9 Rev 1, Ventilating System Schematic Diagrams
- e. 2-45W760-30-10 Rev 1, Ventilating System Schematic Diagrams
- f. 2-45W760-30-15 Rev 0, Ventilating System Schematic Diagrams

53296-62 Rev 1 53296-63 Rev 1

- g. 1-45W760-55-1A Rev 13, Annunciator System Schematic Diagrams
- h. 1-45W760-55-2A Rev 12, Annunciator System Schematic Diagrams 52630-136 Rev 0
- i. 1-45W760-55-3A Rev 3, Annunciator System Schematic Diagrams
- j. 2-45W760-67-9 Rev 0, ERCW System Schematic Diagrams

53288-54 Rev 1

53288-60 Rev 1

53293-23 Rev 1

53293-25 Rev 1

k. 1-45W760-67-10 Rev 14, ERCW System Schematic Diagrams

55477-212 Rev 0 55477-226 Rev 0

I. 2-45W760-67-10 Rev 0, ERCW System Schematic Diagrams

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2.2 Developmental References (continued)

m. 1-45W760-67-17 Rev 5, ERCW System Schematic Diagrams

54912-322 Rev 0 55477-209 Rev 0

- n. 2-45W760-67-17 Rev 0, ERCW System Schematic Diagrams
- o. 2-45W760-270-2 Rev 1, ERCW Miscellaneous System Schematic Diagrams
- p. 2-45B655-6F Rev 0, Main Control Room Annunciator Inputs Window Box XA-55-6F

52343-236 Rev 0 52427-14 Rev 0

q. 2-45B655-E6F Rev 0, Annunciator Window Box XA-55-6F Engraving

52343-237 Rev 0 52427-15 Rev 0

 r. 2-45W703-7A ANT, 125V Vital Battery BD III PNL 4 Connection Diagram Sh-7A

Anticipated, used As Designed drawing

s. 2-45W703-8A ANT, 125V Vital Battery BD IV PNL 4 Connection Diagram Sh-8A

Anticipated, used As Designed drawing

- t. 2-45W706-1 Rev 0, 120V AC Vital Inst. PWR Bds. 1-I & 2-I Connection Diagram Sheet 1
- u. 2-45W706-2 ANT, 120V AC Vital Inst. PWR Bds. 1-II & 2-II
 Connection Diagram Sheet 2

Anticipated, Used Unit 1 CC version

- v. 2-45W756-1 Rev 0, 480V Cont & Aux Bldg Vent BD 1A1-A & 2A1-A Single Line Sh 1
- v. 2-45W756-2 Rev 0, 480V Cont & Aux Bldg Vent BD 1A1-A & 2A1-A
 Single Line Sh 2

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Unit	2

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2.2 Developmental References (continued)

- x. 2-45W756-6 Rev 0, 480V Cont & Aux Bldg Vent BD 1B1-B & 2B1-B Single Line Sh 2
- y. 2-45W751-4 Rev 4, 480V Reac MOV Bd 2A2-A Single Line Sh-1
 53288-81 Rev 1
 54903-248 Rev 0
- z. 2-45W751-5 Rev 3, 480V Reac MOV Bd 2A2-A Single Line Sh-2
- aa. 2-45W751-6 Rev 0, 480V Reac MOV Bd 2A2-A Single Line Sh-3
- bb. 2-45W751-10 Rev 4, 480V Reac MOV Bd 2B2-B Single Line Sh-153293-70 Rev 154903-249 Rev 0
- cc. 45N2689-1 Rev 11, Separation Aux Relay PNL 2-R-74 Connection Diagram Sh-1
- dd. 45N2689-4 Rev 18, Separation Aux Relay PNL 2-R-74 Connection Diagram Sh-4
- ee. 45N2692-1 Rev 14, Separation Aux Relay PNL 2-R-77 Connection Diagram Sh-1
- ff. 45N2692-4 Rev 17, Separation Aux Relay PNL 2-R-77 Connection Diagram Sh-4
- gg. 45B2767-11A Rev G, 480V Reactor MOV Bd. 2A2-A Conn Diag Compt. 11A

54912-136 Rev 1

hh. 45B2767-15A Rev H, 480V Reactor MOV Bd. 2A2-A Conn Diag Compt. 15A

54912-133 Rev 1

ii. 45B2769-5E Rev 5, 480V Reac. MOV Bd 2B2-B Connection Diagram Compt 5E

53293-22 Rev 1

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2.2 Developmental References (continued)

- jj. 45B2769-5F Rev H, 480V Reac. MOV Bd 2B2-B Connection Diagram Compt 5F
- kk. 45B2767-5E Rev J, 480V Reac. MOV Bd 2A2-A Connection Diagram Compt 5E
- II. 45B2767-5F Rev H, 480V Reac. MOV Bd 2A2-A Connection Diagram Compt 5F

mm. 45N2635-69 Rev 8, Wiring Diagram Local Instrument Panels Connection Diagram

3. Logic/Control

- a. 2-47W610-67-2 Rev 4, Electrical Control Diagram ERCW System
- b. 2-47W610-67-3 Rev 6, Electrical Control Diagram ERCW System
 53817-31 Rev 0
- c. 2-47W611-67-3 Rev 3, Electrical Logic Diagram Essential Raw Cooling Water
- d. 2-47W611-67-4 Rev 0, Electrical Logic Diagram Essential Raw Cooling Water
- e. 2-45B640-6 ANT, Contact Development of Selector Switches and Pushbuttons

Anticipated, used DRA 52363-82 Rev 0

f. 2-45B640-7A ANT, Contact Development of Selector Switches and Pushbuttons

Anticipated, used DRA 52363-83 Rev 2

 g. 2-47A615-0 Rev 1, Integrated Computer System Terminations and I/O List

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2.2 Developmental References (continued)

- C. Documents
 - 1. 2-TSD-67 Rev 2, Essential Raw Cooling Water System
 - SOI-30.03 Rev 42, Containment HVAC and Pressure Control
 To be verified against 2-SOI-30.03, Containment HVAC and Pressure Control [Later] in Appendix A.
 - 3. WBN2-67-4002 Rev 1, Essential Raw Cooling Water System Description

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3.0 PRECAUTIONS AND LIMITATIONS

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

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3.0 PRECAUTIONS AND LIMITATIONS (continued)

J. Specific testing NOT performed in 2-PTI-067-03 for the following ERCW valves is tested in the listed preoperational test:

2-TCV-67-129, 2-PTI-30G-01

2-TCV-67-132, 2-PTI-30G-01

2-TCV-67-137, 2-PTI-30G-01

2-TCV-67-140, 2-PTI-30G-01

- K. Control Air Isolation Valves and Pressure Regulators for System 67 TCVs are located near the affected TCV.
- L. Portions of the ERCW System may be taken out of service during performance of this test. All testing activities are to be closely coordinated with Operations to ensure potential conflicts with other plant activities are identified and addressed in a timely manner.
- M. Plant-wide announcements may need to be made before starting lower compartment coolers, control rod drive vent coolers and upper compartment coolers. Coordinate with Operations for announcements and local observers to ensure the areas around the fan(s) are clear of people.
- N. Fuse control shall be in accordance with SMP-6.0 FUSE Verification Program. If multiple fuses will concurrently be in the uninstalled position, each fuse shall be bagged and tagged for identification immediately after removal from the circuit. If fuse(s) will be in the uninstalled position for more than one shift, each fuse shall be bagged, tagged, and locked in a secure location.

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4.0	PRE	REQUSITE ACTIONS	
4.1	Pre	iminary Actions	
· .	[1]	EVALUATE open items in Watts Bar In Equipment List (WITEL), AND	ntegrated Task
		ENSURE that they will NOT adversely performance and results.	affect the test
	[2]	ENSURE changes to the references list Drawings and References, have been determined NOT to adversely affect the	reviewed, and
	[3]	VERIFY current revisions and change and drawings have been reviewed and determined adversely affect the test performance, and the second secon	ermined NOT to
		ATTACH documentation of current dra and change paper that were reviewed	
	[4]	VERIFY the test/performance copy of t Instruction (PTI) is the current revision and as needed, each test person assis current revision.	including any change
	[5]	ENSURE outstanding Design Change Engineering Document Construction R Temporary Alterations (TA's) do NOT a AND	elease (EDCR's) or
		ATTACH documentation of DCN's. ED	CR's and TA's that

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.

ENSURE required Component Testing has been completed

were reviewed to the data package.

prior to start of this test.

[6]

[7]

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1.1	Preli	minary Actions (continued)	
	[8]	ENSURE a review of outstanding clearances has been coordinated with operations for impact to the test, AND	
		RECORD in Appendix B, Temporary Condition Log if required	d. <u> </u>
	[9]	VERIFY System cleanliness as required for the performance this test has been completed in accordance with SMP-7.0.	of
	[10]	VERIFY Measuring and Test Equipment (M&TE) required for test performance has been (as required) filled, vented, placed in service and recorded on Measuring and Test Equipment Log.	
•	[11]	VERIFY Measuring and Test Equipment (M&TE) calibration due dates will support the completion of this test performance).
•	[12]	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	
	٠.	2-XA-55-6F/148-B, (ACR PNL 2-L-11A)	
		2-XA-55-6F/148-C, (ACR PNL 2-L-11B)	
		2-XA-55-6F/149-C, (480 RX MOV BD 2A1-A/2A2-A)	
	[13]	ENSURE components contained within the boundaries of this test are under the jurisdictional control of Preoperational Startup Engineering (PSE) and/or Plant Operations.	•
	[14]	PERFORM a pretest walkdown on equipment to be tested to ensure no conditions exist that will impact test performance.	· · · · · · · · · · · · · · · · · · ·
	[15]	CONDUCT a pretest briefing with Test and Operations personnel in accordance with SMP-9.0.	
	[16]	ENSURE communications is established in areas where testing is to be conducted.	· ·

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4.1	Preli	minary Actions (continued)	
	[17]	VERIFY the following systems are operational placed in service to the extent necessary to	onal and have been o perform this test:
	٠.	System 55, Plant Annunciator System.	<u> </u>
		System 261, Plant Integrated Computer	er System (ICS).
		System 32, Control Air System.	
	. •	System 30J, Upper/Lower Containment	nt Cooler System.
		System 30K, CRD Mechanism Cooling	g System.

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- 4.2 Special Tools, Measuring and Test Equipment, Parts and Supplies
 - A. Two Digital Stopwatches (Subsections 6.1-6.6).
 - B. Fuse puller (Subsections 6.7-6.18).

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4.3

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Fiel	ld Pre	eparations		
[1]	EN	SURE the following have been filled and vented:		
	A.	2-HTX-072-2A-A, CONTAINMENT SPRAY HEAT EXCHANGER 2A-A	_	
	В.	2-HTX-072-2B-B, CONTAINMENT SPRAY HEAT EXCHANGER 2B-B	-	
[2]	VE	RIFY the following breakers are in the CLOSE position:		
	. A.	Breaker 5E at 480V RMOV BD 2B2-B (Subsection 6.1).		
•	B.	Breaker 5F at 480V RMOV BD 2B2-B (Subsection 6.2).	. · 	,
	C.	Breaker 5F at 480V RMOV BD 2A2-A (Subsection 6.3).	 . -	· ·
•	D.	Breaker 5E at 480V RMOV BD 2A2-A (Subsection 6.4).		
	E.	Breaker 11A at 480V RMOV BD 2A2-A (Subsection 6.6)	•	
	F.	Breaker 15A at 480V RMOV BD 2A2-A (Subsection 6.5)		
	G.	Breaker 310 at 125V VITAL DC BATTERY BD III, Panel (Subsection 6.7, 6.8, 6.11, 6.12, 6.15 and 6.16).	4 _	
	H.	Breaker 311 at 125V VITAL DC BATTERY BD III, Panel (Subsection 6.7, 6.8, 6.11 and 6.12).	4 _	··
	1.	Breaker 310 at 125V VITAL DC BATTERY BD IV, Panel (Subsection 6.8[26], 6.10, 6.13, 6.14, 6.17 and 6.18).	4 _	· · · · · · · · · · · · · · · · · · ·
	J.	Breaker 311 at 125V VITAL DC BATTERY BD IV, Panel (Subsection 6.8[26], 6.10, 6.13 and 6.14).	4	
	K.	Breaker 15 at 120VAC VITAL INSTR POWER BD 2-II (Subsection 6.21, 6.22).	, . -	•
:	, L .	Breaker 16 at 120VAC VITAL INSTR POWER BD 2-I (Subsection 6.19, 6.20).	_	

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4.4	App	provals and Notifications	
	[1]	OBTAIN permission from the Preoperational Stato begin testing.	rtup Manager
		Preoperational Startup M	anager Date
	[2]	OBTAIN the Unit 2 Supervisors (US/SRO) or Sh (SM) authorization.	ft Manager's
		US/SRO/SM Signatu	re Date

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5.0 ACCEPTANCE CRITERIA

- [1] Each of the following valves will operate from applicable control stations:
 - A. 2-FCV-67-123-B (Step 6.1[22])
 - B. 2-FCV-67-124-B (Step 6.2[22])
 - C. 2-FCV-67-126-A (Step 6.3[22])
 - D. 2-FCV-67-125-A (Step 6.4[22])
 - E. 2-FCV-67-143-A (Step 6.5[34])
 - F. 2-FCV-67-146-A (Step 6.6[44])
- [2] During a simulated overload condition, each of the following valves will operate with the thermal overload protective device bypass in effect, and WILL NOT operate with the overload protective device bypass reset:
 - A. 2-FCV-67-123-B (Step 6.1[14], 6.1[17])
 - B. 2-FCV-67-124-B (Step 6.2[14], 6.2[17])
 - C. 2-FCV-67-126-A (Step 6.3[14], 6.3[17])
 - D. 2-FCV-67-125-A (Step 6.4[14], 6.4[17])
 - E. 2-FCV-67-143-A (Step 6.5[24], 6.5[27])
 - F. 2-FCV-67-146-A (Step 6.6[34], 6.6[37])

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5.0 ACCEPTANCE CRITERIA (continued)

- [3] Each of the following valves will operate within time response associated with the Unit 2 ERCW Non-Safeguard valves functions:
 - A. 2-FCV-67-123-B opens in \leq 70 Seconds (Step 6.1[20])
 - B. 2-FCV-67-124-B opens in ≤ 70 Seconds (Step 6.2[20])
 - C. 2-FCV-67-126-A opens in \leq 70 Seconds (Step 6.3[20])
 - D. 2-FCV-67-125-A opens in \leq 70 Seconds (Step 6.4[20])
 - E. 2-FCV-67-143-A opens in ≤ 180 Seconds (Step 6.5[30])
 - F. 2-FCV-67-143-A closes in ≤ 180 Seconds (Step 6.5[32])
 - G. 2-FCV-67-146-A opens in \leq 60 Seconds (Step 6.6[40])
 - H. 2-FCV-67-146-A closes in ≤ 60 Seconds (Step 6.6[42])

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5.0 ACCEPTANCE CRITERIA (continued)

- [4] The following ERCW temperature control valves (TCVs) respond as described below:
 - A. 2-TCV-67-86-A OPENS upon Reactor Coolant Pump Motor 1 start signal and closes when manually overridden from its control switch (Step 6.15[7], 6.15[9]).
 - B. 2-TCV-67-94-A OPENS upon Reactor Coolant Pump Motor 3 start signal and closes when manually overridden from its control switch (Steps 6.16[7], 6.16[9]).
 - C. 2-TCV-67-102-B OPENS upon Reactor Coolant Pump Motor 2 start signal and closes when manually overridden from its control switch (Steps 6.17[7], 6.17[9]).
 - D. 2-TCV-67-110-B OPENS upon Reactor Coolant Pump Motor 4 start signal and closes when manually overridden from its control switch (Steps 6.18[7], 6.18[9]).
 - E. 2-TCV-67-84-A OPENS to modulate upon Lower Compartment Vent Cooler 2A start and closes when manually overridden from one of its control switches (Step 6.7[7]A, 6.7[11]A, 6.7[12], 6.7[15]).
 - F. 2-TCV-67-85-A OPENS to modulate upon Control Rod Drive Vent Cooler 2A start and closes when manually overridden from one of its control switches (Step 6.11[7]A, 6.11[11]A, 6.11[12], 6.11[15]).
 - G. 2-TCV-67-92-A OPENS to modulate upon Lower Compartment Vent Cooler 2C start and CLOSES when manually overridden from one of its control switches (Step 6.8[7]A, 6.8[11]A, 6.8[12], 6.8[15]).
 - H. 2-TCV-67-93-A OPENS to modulate upon Control Rod Drive Vent Cooler 2C start and closes when manually overridden from one of its control switches (Step 6.12[7]A, 6.12[11]A, 6.12[12], 6.12[15]).
 - I. 2-TCV-67-100-B OPENS to modulate upon Lower Compartment Vent Cooler 2B start and closes when manually overridden from one of its control switches (Step 6.9[7]A, 6.9[11]A, 6.9[12], 6.9[15]).

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5.0 ACCEPTANCE CRITERIA (continued)

- J. 2-TCV-67-101-B OPENS to modulate upon Control Rod Drive Vent Cooler 2B start and CLOSES when manually overridden from one of its control switches (Step 6.13[7]A, 6.13[11]A, 6.13[12], 6.13[15]).
- K. 2-TCV-67-108-B OPENS to modulate upon Lower Compartment Vent Cooler 2D start and CLOSES when manually overridden from one of its control switches (Step 6.10[7]A, 6.10[11]A, 6.10[12], 6.10[15]).
- L. 2-TCV-67-109-B OPENS to modulate upon Control Rod Drive Vent Cooler 2D start and CLOSES when manually overridden from one of its control switches (Step 6.14[7]A, 6.14[11]A, 6.14[12], 6.14[15]).
- M. 2-TCV-67-129 OPENS to modulate upon Upper Compartment Vent Cooler 2A start (Step 6.19[8]).
- N. 2-TCV-67-132 OPENS to modulate upon Upper Compartment Vent Cooler 2C start (Step 6.20[8]).
- O. 2-TCV-67-137 OPENS to modulate upon Upper Compartment Vent Cooler 2B start (Step 6.21[8]).
- P. 2-TCV-67-140 OPENS to modulate upon Upper Compartment Vent Cooler 2D start (Step 6.22[8]).

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6.0	PERF	ORMANCE	·						
. •		NOTE							
The	subsection	ns of this PTI may be performed in any ord	der.						
6.1		/-67-123-B, CNTMT SPRAY HX 2B-B ER c, Stroke Time, and Thermal Overload B							
		CAUTION							
		of this section will temporarily OPEN Cer. Coordinate with Operations and Ch							
	[1]	VERIFY all applicable prerequisites listed complete.	in Section 4.0 are						
	[2]	ENSURE the following Integrated Compu points are in scan:	ter System (ICS)						
		A. FD2293							
•		B. FD2294							
	[3]	PLACE 2-HS-67-124A, CNTMT SPRAY I located at Panel 0-M-27A, to the CLOSE	·						
	r	VERIFY the following:							
		A. 2-FCV-67-124-B, CNTMT SPRAY H. RETURN, is CLOSED (locally).	X 2B-B ERCW						
		B. Red Light OFF for 2-HS-67-124A at	Panel 0-M-27A						
		C. Green Light ON for 2-HS-67-124A at	Panel 0-M-27A.						
	[4]	PLACE 2-HS-67-123A, CNTMT SPRAY of the OPEN position,							
	•	VERIFY 2-FCV-67-123-B, CNTMT SPRA							

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 24 of 135	
	Data	Pacl	kage: Page of	Da	ate
6.1	Logi		-123-B, CNTMT SPRAY HX 2B-B ERCW roke Time, and Thermal Overload Bypas d)		
	[5]		ACE 2-HS-67-123A, CNTMT SPRAY HX 2 Panel 0-M-27A, to the CLOSE position, AN		
	٠	VE	RIFY the following:	,	
		A.	2-FCV-67-123-B, CNTMT SPRAY HX 2B SUPPLY, is CLOSED (locally).	B-B ERCW	
		B.	Red Light OFF at 2-HS-67-123A (0-M-27	A).	·
		C.	Green Light ON at 2-HS-67-123A.		
•		D _.	ICS point FD2294 displays CLOSED.		
	[6]	OP	EN breaker at Compt 5E of 480V RMOV B	D 2B2-B, AND	
		VE	RIFY ICS point FD2293 displays PWR OF	F.	<u> </u>
	[7]	CL	OSE breaker at Compt 5E of 480V RMOV	BD 2B2-B, AND	
		VE	RIFY ICS point FD2293 displays PWR ON	•	
	[8]		ACE 2-HS-67-123A, CNTMT SPRAY HX 2 EN position, AND	B INLET, to the	
		VE	RIFY the following:		
		Α.	2-FCV-67-123-B, CNTMT SPRAY HX 2B SUPPLY, is OPEN (locally).	B-B ERCW	
		В.	Red Light ON for 2-HS-67-123A at Panel	0-M-27A.	· · · · · · · · · · · · · · · · · · ·
		C.	Green Light OFF for 2-HS-67-123A at Pa	nel 0-M-27A.	·

ICS point FD2294 displays NOT CLS.

D.

	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 25 of 135
	Data	Package: Page of	Date
6.1	Logi	V-67-123-B, CNTMT SPRAY HX 2B-B ERCW c, Stroke Time, and Thermal Overload Bypa tinued)	SUPPLY Valve ss Test
	[9]	PLACE 2-HS-67-123A, CNTMT SPRAY HX at Panel 0-M-27A, to the CLOSE position, A	2B INLET, located ND
		VERIFY the following:	
	•	A. 2-FCV-67-123-B, CNTMT SPRAY HX 2 SUPPLY, is CLOSED (locally).	B-B ERCW
		B. Red Light OFF at 2-HS-67-123A (0-M-2	7A)
		C. Green Light ON at 2-HS-67-123A.	
	[10]	OPEN Breaker 5E at 480V RMOV BD 2B2-E	
	[11]	MANUALLY TRIP the thermal overload circulon 480V RMOV BD 2B2-B.	uitry at Compt 5E
	[12]	CLOSE Breaker 5E at 480V RMOV BD 2B2-	B
	[13]	PLACE 2-HS-67-123A, CNTMT SPRAY HX OPEN position, AND	2B INLET, in the
		VERIFY 2-FCV-67-123-B DOES NOT OPEN	
	[14]	WHILE HOLDING 2-HS-67-123A, CNTMT SINLET, in the OPEN position, DEPRESS, AND	PRAY HX 2B ID
	•	HOLD Armature of Overload Bypass Relay Reactor MOV Bd 2B2-B, CMPT 6F, to simula Bypass, AND	(3 in rear of 480V ate Overload
		VERIFY 2-FCV-67-123-B OPENS. (ACC CF	RIT)
	[15]	PLACE 2-HS-67-123A, CNTMT SPRAY HX CLOSE position, AND	2B INLET, to the
		VERIFY 2-FCV-67-123-B CLOSES.	
	[16]	RELEASE K3 Relay Armature.	

	WBN Unit 2	ERCW VALVE	ERCW VALVE LOGIC TEST	
	Data	ackage: Page of _		Date
6.1	Logic	-67-123-B, CNTMT SPRA Stroke Time, and Therm nued)		
	[17]	PLACE 2-HS-67-123A, COPEN position, AND	NTMT SPRAY HX 2B	BINLET, to the
		VERIFY 2-FCV-67-123-B	DOES NOT OPEN.	(ACC CRIT)
	[18]	MOMENTARILY DEPRES at Compt 5E on 480V RM		ad reset button
			NOTES	
1)		ving step requires valve st witch in the Open position		the valve and remotely at the
2)	valve ste	n movement. Remote timi	ng begins with the init itus change. Stroke ti	ided with the completion of tiating signal and is concluded me acceptance criteria will be on of the valve.
	[19]	SIMULTANEOUSLY PLA OPEN position, AND	CE handswitch 2-HS	-67-123A to the
		START stopwatches.		

	WBN Unit 2		ERCW VALVE L	OGIC TEST	2-PTI-067-0 Rev. 0000 Page 27 of	
	Data	Packa	ge: Page of	_		Date
6.1	Logic		23-B, CNTMT SPRAY ke Time, and Thermal			e
	[20]		stopwatches when 2- on, AND	FCV-67-123-B rea	aches the OPE	EN .
	•	RECO	ORD stroke times below	w:		,
•	[2	0.1]	RECORD remote ope (ACC CRIT)	ning time at 2-HS	-67-123A	
	٠		seconds	(≤ 70	seconds)	
		M&TE	 _	Cal Due Da	ate	
	[2	0.2]	RECORD local openir (ACC CRIT)	ng time at 2-FCV-6	67-123-B	
C .			seconds	(≤ 70	seconds)	
		M&TE	=	Cal Due Da	ate	
	[21]		CE 2-HS-67-123A, CN nel 0-M-27A, to the CL			ted
		VERI	FY the following:		% 	,
		_	2-FCV-67-123-B, CNTI SUPPLY, is CLOSED (B-B ERCW	
		.B. F	Red Light OFF at 2-HS	-67-123A (0-M-27	A).	: <u></u>
		C. (Green Light ON at 2-H	S-67-123A.	•	
	[22]		FY the successful com	pletion of this Sub	section 6.1	

WBN Unit 2			ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 28 of 135
	Data	Pacl	kage: Page of	Date
6.2			'-124-B CNTMT SPRAY HX 2B-B ERCW troke Time, and Thermal Overload Bypa	
	,		CAUTION	
			his section will temporarily OPEN CNTN Coordinate with Operations and Chem	
	[1]		RIFY all applicable prerequisites listed in S	ection 4.0 are
10	[2]		SURE the following Integrated Computer Sonts are in scan:	ystem (ICS)
		A.	FD2295	
		В.	FD2296	·
	[3]		RIFY/PLACE 2-HS-67-123A, CNTMT SPR ET, located at Panel 0-M-27A, to the CLOS	
		VE	RIFY the following:	
		A .	2-FCV-67-123-B, CNTMT SPRAY HX 2B SUPPLY, is CLOSED (locally).	-B ERCW
		В.	Red Light OFF at 2-HS-67-123A (0-M-27	A)
	•	C.	Green Light ON at 2-HS-67-123A.	
·	[4]		ACE 2-HS-67-124A, CNTMT SPRAY HX 2 ated at Panel 0-M-27A, to the OPEN position	•
	VERIFY 2-FCV-67-124-B, CNTMT SPRAY HX 2B-B ERCW RETURN, is OPEN at the valve (A12-U, EL 730).			

WBN Unit 2		2		2-PTI-067-03 Rev. 0000 Page 29 of 135			
•	Data	Date					
6.2	Logic	2-FCV-67-124-B CNTMT SPRAY HX 2B-B ERCW RETURN Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)					
	[5]		ACE 2-HS-67-124A, CNTMT SPRAY HX 28 ated at Panel 0-M-27A, to the CLOSE positi				
		VE	RIFY the following:				
	,	A.	2-FCV-67-124-B, CNTMT SPRAY HX 2B-RETURN, is CLOSED (locally).	B ERCW			
		В.	Red Light OFF for 2-HS-67-124A at Pane	I 0-M-27A.			
	•	C.	Green Light ON for 2-HS-67-124A at Pane	el 0-M-27A.			
		D.	ICS point FD2296 displays CLOSED.	,			
	[6]	OP	EN breaker at Compt 5F of 480V RMOV BI	O 2B2-B, AND			
		VE	RIFY ICS point FD2295 displays PWR OFF	<u></u>			
	[7]	CL	OSE breaker at Compt 5F of 480V RMOV I	BD 2B2-B, AND			
		VE	RIFY ICS point FD2295 displays PWR ON.				
	[8]		ACE 2-HS-67-124A, CNTMT SPRAY HX 2	B RETURN, in			
	,	VE	RIFY the following:				
		A.	2-FCV-67-124-B, CNTMT SPRAY HX 2B RETURN, is OPEN (locally).	-B ERCW			
• •		В.	Red Light ON for 2-HS-67-124A at Panel	0-M-27A.			
		C.	Green Light OFF for 2-HS-67-124A at Pa	nel 0-M-27A.			
		D.	ICS Point FD2296 displays NOT CLS.				

	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 30 of 135
	Data	Package: Page of	Date
6.2	Logi	V-67-124-B CNTMT SPRAY HX 2B-B ERCV c, Stroke Time, and Thermal Overload By inued)	·
	[9]	PLACE 2-HS-67-124A, CNTMT SPRAY Hocated at Panel 0-M-27A, to the CLOSE p	
		VERIFY the following:	
		A. 2-FCV-67-124-B, CNTMT SPRAY HX RETURN, is CLOSED (locally).	2B-B ERCW
		B. Red Light OFF for 2-HS-67-124A at P	anel 0-M-27A.
		C. Green Light ON for 2-HS-67-124A at F	Panel 0-M-27A.
	[10]	OPEN Breaker 5F at 480V RMOV BD 2B2	В
	·[11]	MANUALLY TRIP the thermal overload cir on 480V RMOV BD 2B2-B.	cuitry at Compt 5F
	[12]	CLOSE Breaker 5F at 480V RMOV BD 2B	2-B
	[13]	PLACE 2-HS-67-124A, CNTMT SPRAY H. the OPEN position, AND	X 2B RETURN, in
		VERIFY 2-FCV-67-124-B DOES NOT OPE	
<i>7</i> .	[14]	WHILE HOLDING 2-HS-67-124A, CNTMT RETURN in the OPEN position, DEPRESS	The state of the s
	÷ ,	HOLD Armature of Overload Bypass Relay Reactor MOV Bd 2B2-B, CMPT 6F, to simular Bypass, AND	
		VERIFY 2-FCV-67-124-B OPENS. (ACC	CRIT)
	[15]	PLACE 2-HS-67-124A, CNTMT SPRAY H. the CLOSE position, AND	X 2B RETURN, to
		VERIFY 2-FCV-67-124-B CLOSES.	
	[16]	RELEASE K6 Relay Armature.	

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 31 of 135
	Data	Pac	kage: Page of	Date
6.2		c, Stı	-124-B CNTMT SPRAY HX 2B-B ERCW RI roke Time, and Thermal Overload Bypass d)	•
	[17]		ACE 2-HS-67-124A, CNTMT SPRAY HX 2E OPEN position, AND	RETURN, to
		VE	RIFY 2-FCV-67-124-B DOES NOT OPEN.	(ACC CRIT)
	[18]		MENTARILY DEPRESS the thermal overlo Compt 5F on 480V RMOV BD 2B2-B.	ad reset button
			NOTES	
1)			step requires valve stroke timing locally at the high the open position.	the valve and remotely at the
2)	valve ste with the	em m posit	pegins with the initiating signal and is conclusovement. Remote timing begins with the inition indication lights status change. Stroke timovement to the safety function final position.	tiating signal and is concluded me acceptance criteria will be
	[19]		MULTANEOUSLY PLACE handswitch 2-HS EN position, AND	-67-124A to the
		ST	ART stopwatches.	·

	WBN Unit 2	ERCW VALVE LOG	IC TEST	2-PTI-067-03 Rev. 0000 Page 32 of 135	
`	Data Pacl	kage: Page of		Date	e
6.2		-124-B CNTMT SPRAY HX oke Time, and Thermal Ov d)			
÷		OP stopwatches when 2-FC sition, AND	V-67-124-B read	ches the OPEN	
	RE	CORD stroke times below:			• •
	[20.1]	RECORD remote opening (ACC CRIT)	g time at 2-HS-6	67-124A	
	-	seconds	(≤ 70 s	econds)	
	М&	TE	Cal Due Dat	e	
	[20.2]	RECORD local opening t (ACC CRIT)	— ime at 2-FCV-67	7-124-B	
	_	seconds	(≤ 70 s	econds)	
	М&	TE	Cal Due Dat	e	
		ACE 2-HS-67-124A, CNTM ated at Panel 0-M-27A, to th			
	VE	RIFY the following:			•
	Α.	2-FCV-67-124-B, CNTMT RETURN, is CLOSED (loc		B ERCW	· · · · · · · · · · · · · · · · · · ·
	В.	Red Light OFF for 2-HS-67	7-124A at Panel	0-M-27A.	
	C.	Green Light ON for 2-HS-6	7-124A at Pane	ol 0-M-27A.	·
		RIFY the successful comple	tion of this Subs	ection 6.2	

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6.3		V-67-126-A CNTMT SPRAY HX 2A-A ERCW RETURN Valve c, Stroke Time, and Thermal Overload Bypass Test)		
		CAUTION			
		of this section will temporarily OPEN CNTMT SPRAY HX and Chemistry.	ZA-A ERCW		
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 are complete.			
	[2]	ENSURE the following Integrated Computer System (ICS) points are in scan:			
		A. FD2149			
		B. FD2150			
	[3]	PLACE 2-HS-67-125A, CNTMT SPRAY HX 2A-A INLET, located at Panel 0-M-27A, to the CLOSE position, AND			
		VERIFY the following:	•		
		A. 2-FCV-67-125-A, CNTMT SPRAY HX 2A-A ERCW SUPPLY, is CLOSED (locally).	<u>-</u>		
	•	B. Red Light OFF for 2-HS-67-125A at Panel 0-M-27A.			
		C. Green Light ON for 2-HS-67-125A at Panel 0-M-27A.			
	[4]	PLACE 2-HS-67-126A, CNTMT SPRAY HX 2A RETURN, located at Panel 0-M-27A, to the OPEN position AND			
		VERIFY 2-FCV-67-126-A, CNTMT SPRAY HX 2A-A ERCW RETURN, is OPEN at the valve (A12-V, EL 730).			

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	Data	Pacl	kage: Page of	Date
6.3		c, Sti	-126-A CNTMT SPRAY HX 2A-A ERCW R roke Time, and Thermal Overload Bypass d)	
	[5]		ACE 2-HS-67-126A, CNTMT SPRAY HX 2A ated at Panel 0-M-27A, to the CLOSE positi	•
		VE	RIFY the following:	
		A.	2-FCV-67-126-A, CNTMT SPRAY HX 2A-RETURN, is CLOSED (locally).	A ERCW
		В.	Red Light OFF for 2-HS-67-126A at Pane	0-M-27A.
		C.	Green Light ON for 2-HS-67-126A at Pane	el 0-M-27A.
		D.	ICS point FD2150 displays CLOSED.	
	[6]	OP	EN breaker at Compt 5F of 480V RMOV BE	2A2-A, AND
		VE	RIFY ICS point FD2149 displays PWR OFF	
	[7]	CL	OSE breaker at Compt 5F of 480V RMOV E	BD 2A2-A, AND
		VE	RIFY ICS point FD2149 displays PWR ON.	
. '	[8]		ACE 2-HS-67-126A, CNTMT SPRAY HX 2A OPEN position, AND	A RETURN, to
		VE	RIFY the following:	
		Α.	2-FCV-67-126-A, CNTMT SPRAY HX 2A-RETURN, is OPEN (locally).	A ERCW
		В.	Red Light ON for 2-HS-67-126A at Panel	0-M-27A.

C. Green Light OFF for 2-HS-67-126A at Panel 0-M-27A.

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	Data	Pacl	kage: Page of	Date		
6.3	Logic	2-FCV-67-126-A CNTMT SPRAY HX 2A-A ERCW RETURN Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)				
	[9]	[9] PLACE 2-HS-67-126A, CNTMT SPRAY HX 2A RETURN, located at Panel 0-M-27A, to the CLOSE position, AND				
	•	VE				
.*		A.	2-FCV-67-126-A, CNTMT SPRAY HX 2A-RETURN, is CLOSED (locally).	A ERCW		
		В.	Red Light OFF for 2-HS-67-126A at Panel	0-M-27A.		
		C.	Green Light ON for 2-HS-67-126A at Pane	l 0-M-27A.		
		D.	ICS point FD2150 displays CLOSED.			
	[10]	OP	EN Breaker 5F at 480V RMOV BD 2A2-A.			
	[11]		NUALLY TRIP the thermal overload circuitr 480V RMOV BD 2A2-A.	y at Compt 5F		
	[12]	CL	OSE Breaker 5F at 480V 4MOV BD 2A2-A.			
	[13]		ACE 2-HS-67-126A, CNTMT SPRAY HX 2A OPEN position, AND	RETURN, in		
	•	VE	RIFY 2-FCV-67-126-A DOES NOT OPEN.	·		
	[14]		IILE HOLDING 2-HS-67-126A, CNTMT SPETURN in the OPEN position, DEPRESS, AND			
		Re	LD Armature of Overload Bypass Relay K6 actor MOV Bd 2A2-A, CMPT 6D, to simulate pass AND			
		VE	RIFY 2-FCV-67-126-A OPENS. (ACC CRIT			
	[15]		ACE 2-HS-67-126A, CNTMT SPRAY HX 2A CLOSE position, AND	RETURN, to		
		VE	RIFY 2-FCV-67-126-A CLOSES.			
	[16]	RE	LEASE K6 Relay Armature.			

	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 36 of 135			
	Data Pac	kage: Page of	Date			
6.3 2-FCV-67-126-A CNTMT SPRAY HX 2A-A ERCW RETURN Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)						
		ACE 2-HS-67-126A, CNTMT SPRAY HX 2A OPEN position, AND	RETURN, to			
	VE	RIFY 2-FCV-67-126-A DOES NOT OPEN.	(ACC CRIT)			
	[18] MOMENTARILY DEPRESS the thermal overload reset button at Compt 5F on 480V RMOV BD 2A2-A.					
		NOTES				
1)	The following step requires valve stroke timing locally at the valve and remotely at the Control Switch in the Open position.					
2)	Local timing begins with the initiating signal and is concluded with the completion of valve stem movement. Remote timing begins with the initiating signal and is concluded with the position indication lights status change. Stroke time acceptance criteria will be based on the movement to the safety function final position of the valve.					
		MULTANEOUSLY PLACE handswitch 2-HSPEN position, AND	G-67-126A to the			
	ST	ART stopwatches.	·			

	WBN Unit 2	ERCW VALVE LO	GIC TEST	2-PTI-067-03 Rev. 0000 Page 37 of 135	
	Data Pac	kage: Page of		Dat	e
6.3		7-126-A CNTMT SPRAY H troke Time, and Thermal (ed)	•		
•		FOP stopwatches when 2-Fesition, AND	CV-67-126-A read	ches the OPEN	·
	RI	ECORD stroke times below:			•
	[20.1]	RECORD remote openi (ACC CRIT)	ing time at 2-HS-6	67-126A	·
		seconds	(≤ 70 s	econds)	
	M	&TE	Cal Due Dat	e	
	[20.2]	RECORD local opening (ACC CRIT)	g time at 2-FCV-6	7-126-A	
		seconds	(≤ 70 s	econds)	<u> </u>
	M	&TE	Cal Due Dat	e	
		LACE 2-HS-67-126A, CNTI cated at Panel 0-M-27A, to			
	VI	ERIFY the following:			
	A	2-FCV-67-126-A, CNTM RETURN, is CLOSED (le		A ERCW	
	. В	. Red Light OFF for 2-HS-	-67-126A at Pane	0-M-27A.	· ·
	C	. Green Light ON for 2-HS	6-67-126A at Pane	el 0-M-27A.	· ·
		ERIFY the successful comp	eletion of this Subs	section 6.3	

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 38 of 135
Data	a Pack	kage: Page of	Date
		7-125-A CNTMT SPRAY HX 2A-A ERCW troke Time, and Thermal Overload Byp	·
		CAUTION	
		his section will temporarily OPEN CNT Coordinate with Operations and Chem	
[1]		RIFY all applicable prerequisites listed in nplete.	Section 4.0 are
[2]		SURE the following Integrated Computer nts are in scan:	System (ICS)
	A.	FD2127	
	В.	FD2128	
[3]		ACE 2-HS-67-126A, CNTMT SPRAY HX ated at Panel 0-M-27A, to the CLOSE pos	
	VE	RIFY the following:	
	Α.	2-FCV-67-126-A, CNTMT SPRAY HX 2 RETURN, is CLOSED (locally).	A-A ERCW
	В.	Red Light OFF for 2-HS-67-126A at Par	nel 0-M-27A.
	C.	Green Light ON for 2-HS-67-126A at Pa	nel 0-M-27A.
[4]		ACE 2-HS-67-125A, CNTMT SPRAY HX ated at Panel 0-M-27A, to the OPEN posi	· ·
		RIFY 2-FCV-67-125-A, CNTMT SPRAY F PPLY, is OPEN at the valve (A12-U, EL 7	

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			rage: Page of		Date	
6.4		c, Str	-125-A CNTMT SPRAY HX 2A-A ERCW S oke Time, and Thermal Overload Bypas d)			
	[5]		ACE 2-HS-67-125A, CNTMT SPRAY HX 2 ated at Panel 0-M-27A, to the CLOSE posit		·.	
		VEI	RIFY the following:			
	· .	A.	2-FCV-67-125-A, CNTMT SPRAY HX 2A SUPPLY, is CLOSED (locally).	-A ERCW		
		В.	Red Light OFF for 2-HS-67-125A at Pane	el 0-M-27A.	, -	
		C.	Green Light ON for 2-HS-67-125A at Pan	el 0-M-27A.		
		D.	ICS point FD2128 displays CLOSED.			
	[6]	OP	EN breaker at Compt 5E of 480V RMOV B	D 2A2-A, AND		;
		VE	RIFY ICS point FD2127 displays PWR OFF	=, '		
٠.,	[7]	CL	OSE breaker at Compt 5E of 480V RMOV	BD 2A2-A, AN I)	
		VE	RIFY ICS point FD2127 displays PWR ON	· · · · ·		
	[8]		ACE 2-HS-67-125A, CNTMT SPRAY HX 2 ated at Panel 0-M-27A, to the OPEN position	•		
		· VE	RIFY the following:			•
		Α.	2-FCV-67-125-A, CNTMT SPRAY HX 2A SUPPLY, is OPEN (locally).	-A ERCW		
		B.	Red Light ON for 2-HS-67-125A at Panel	0-M-27A.		
		C.	Green Light OFF for 2-HS-67-125A at Pa	nel 0-M-27A.	-	
		D.	ICS point FD2128 displays NOT CLS.			

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	Data	Pack	rage: Page of	Date	
6.4		c, Str	-125-A CNTMT SPRAY HX 2A-A ERCW SI oke Time, and Thermal Overload Bypass d)		
	[9]		ACE 2-HS-67-125A, CNTMT SPRAY HX 2A ated at Panel 0-M-27A, to the CLOSE positi		
		VE	RIFY the following:		
	•	A.	2-FCV-67-125-A, CNTMT SPRAY HX 2A-SUPPLY, is CLOSED (locally).	A ERCW	,
		0-M-27A.			
		C.	Green Light ON for 2-HS-67-125A at Pane	el 0-M-27A.	
	[10]	OP	EN Breaker 5E at 480V RMOV BD 2A2-A.	•	
	· [11]		NUALLY TRIP the thermal overload circuits 480V RMOV BD 2A2-A.	y at Compt 5E	<u></u>
	[12]	CL	OSE Breaker 5E at 480V RMOV BD 2A2-A.		
	[13]		ACE 2-HS-67-125A, CNTMT SPRAY HX 2AEN position, AND	A INLET in the	
	•	VEI	RIFY 2-FCV-67-125-A DOES NOT OPEN.		• .
	[14]		IILE HOLDING 2-HS-67-125A, CNTMT SPI ET in the OPEN position, DEPRESS, AND	RAY HX 2A	·
		Rea	LD Armature of Overload Bypass Relay K4 actor MOV Bd 2A2-A, CMPT 6D, to simulate bass AND		
		VEI	RIFY 2-FCV-67-125-A OPENS. (ACC CRIT	Γ)	
•	[15]		ACE 2-HS-67-125A, CNTMT SPRAY HX 24 DSE position, AND	NINLET, to the	
		VE	RIFY 2-FCV-67-125-A CLOSES.		

[16]

RELEASE K4 Relay Armature.

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6.4	Logic	-67-125-A CNTMT SPRAY HX 2A-A ERCW SUPPLY Valve Stroke Time, and Thermal Overload Bypass Test nued)				
[17] PLACE 2-HS-67-125A, CNTMT SPRAY HX 2A INL OPEN position, AND		IX 2A INLET, to the				
		VERIFY 2-FCV-67-125-A DOES NOT OP	EN. (ACC CRIT)			
٠.	[18]	MOMENTARILY DEPRESS the thermal of at Compt 5E on 480V RMOV BD 2A2-A.	overload reset button			
		NOTES				
1)	The following step requires valve stroke timing locally at the valve and remotely at the Control Switch in the Open position.					
2)	valve ste with the	ning begins with the initiating signal and is come movement. Remote timing begins with the position indication lights status change. Strong the movement to the safety function final parts.	ne initiating signal and is concluded oke time acceptance criteria will be			
	[19]	SIMULTANEOUSLY PLACE handswitch OPEN position, AND	2-HS-67-125A to the			

START stopwatches.

	WBN Unit 2		ERCW VALV	E LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 42 of 13	5
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5.4		c, Str	roke Time, and The		RCW SUPPLY Valve Bypass Test	
	[20]		OP stopwatches who sition, AND	en 2-FCV-67-125	5-A reaches the OPEN	
		RE	CORD stroke times	pelow:		
	[2	20.1]	RECORD remote (ACC CRIT)	opening time at	2-HS-67-125A	
			secon	nds-	(≤ 70 seconds)	
		М&	TE	Cal D	Oue Date	
	[2	20.2]	RECORD local o	pening time at 2-	FCV-67-125-A	
		_	seco	nds	(≤ 70 seconds)	
		М&	TE	Cal D	Oue Date	
	[21]		ACE 2-HS-67-125A, ated at Panel 0-M-27			% ** *
		VE	RIFY the following:		:	
		Α.	2-FCV-67-125-A, (SUPPLY, is CLOS		HX 2A-A ERCW	
		B.	Red Light OFF for	2-HS-67-125A a	t Panel 0-M-27A.	
		C.	Green Light ON fo	2-HS-67-125A	at Panel 0-M-27A.	
	[22]	VE	RIFY the successful	completion of th	is Subsection 6.4	

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 43 of 135						
Dat	Data Package: Page of Date								
6.5 2-FCV-67-143-A, CCS HX B OUTLET ERCW FLOW CNTL BYP Valve Logic, Stroke Time, and Thermal Overload Bypass Test									
		CAUTION							
Performand Header.	ce of th	nis subsection will temporarily isolate CCS I	HX B ERCW Outlet Bypass						
[1]		RIFY all applicable prerequisites listed in S	ection 4.0 are						
[2]		CORD as-found position of 2-FCV-67-143- TLET ERCW FLOW CNTL BYP	A, CCS HX B						
	As	-Found position	: :						
[3]	FL	RIFY/PLACE 2-XS-67-143, CCS HX B ER OW CNTL XFER SW, at 480V RMOV BD 2 A, to the NOR position, AND							
		SURE Annunciator 149-C, 2-XA-55-6F, 48 1-A/2A2-A, is CLEAR.	0 RX MOV BD						
		·							
		NOTE							
Opening 2-	FCV-6	7-143 may cause fluctuations in ERCW sys	stem flow and pressure.						
[4]	flov	OTIFY Operations to adjust ERCW system power as needed throughout performance of the subsection.							
[5]		SURE 2-FCV-67-143-A, CCS HX B OUTLE ITL BYP is FULLY OPEN (Locally) (A11R/7							
[6]	. CN	ACE 2-HS-67-143C, CCS HX B ERCW BY ITL HAND SW C, at 480V RMOV BD 2A2-ACCLOSE position, AND	•						
	VE	RIFY 2-FCV-67-143-A DOES NOT CLOSE	(locally).						

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 44 of 135
	Data	Pacl	kage: Page of	Date
6.5		Log	-143-A, CCS HX B OUTLET ERCW FLOW gic, Stroke Time, and Thermal Overload E ed)	
	[7]	HD	ACE AND HOLD 2-HS-67-143A, CCS HX B R A, at panel 0-M-27A, in the CLOSE positions are VERIFIED:	
		A.	2-FCV-67-143-A is FULLY CLOSED (Loca	ally)
		В.	Red light OFF at 2-HS-67-143A	
		C.	Green light ON at 2-HS-67-143A	
		D.	Red light OFF at 480V RMOV BD 2A2-A,	Compt 15A
	•	E.	Green light ON at 480V RMOV BD 2A2-A,	Compt 15A
	[8]	CN	ACE 2-HS-67-143C, CCS HX B ERCW BYF ITL HAND SW C, at 480V RMOV BD 2A2-A OPEN position, AND	
		VE	RIFY 2-FCV-67-143-A DOES NOT OPEN (I	ocally).
	[9]	HD	ACE AND HOLD 2-HS-67-143A, CCS HX EDR A, at panel 0-M-27A, in the OPEN position owing are VERIFIED:	
		A.	2-FCV-67-143-A is FULLY OPEN (Locally	,
		В.	Red light ON at 2-HS-67-143A	
		C.	Green light OFF at 2-HS-67-143A	
		D.	Red light ON at 480V RMOV BD 2A2-A, C	ompt 15A
		E.	Green light OFF at 480V RMOV BD 2A2-A	A, Compt 15A
	[10]	HD	ACE AND HOLD 2-HS-67-143A, CCS HX EDR A, at panel 0-M-27A, in the CLOSE position FCV-67-143 travels to the intermediate position	on until valve
	[11]	CN	ACE 2-HS-67-143C, CCS HX B ERCW BYF ITL HAND SW C, at 480V RMOV BD 2A2-A NORMAL position.	

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	Data	Pack	kage: Page of	Date		
5	2-FCV-67-143-A, CCS HX B OUTLET ERCW FLOW CNTL BYP Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)					
			NOTE			
Annu step.		149-0	C, 2-XA-55-6F, 480 RX MOV BD 2A1-A/2	A2-A will alarm in the following		
	[12]	CN	ACE 2-XS-67-143, CCS HX B ERCW BY TL XFER SW, at 480V RMOV BD 2A2-A X position, AND			
		VE	RIFY:			
		A.	Annunciator 149-C, 2-XA-55-6F, 480 RX 2A1-A/2A2-A, ALARMS.	(MOV BD		
		В.	Unit 2 Events Display Legend indicates MOV BD 2A1-A/2A2-A XS IN AUX, is in			
		C.	Red light OFF at 2-HS-67-143A			
		D.	Green light OFF at 2-HS-67-143A			
		E.	Red light ON at 480V RMOV BD 2A2-A	Compt. 15A		
		F.	Green light ON at 480V RMOV BD 2A2-	A Compt. 15A		
-	[13]	HD	ACE AND HOLD 2-HS-67-143A, CCS HX R A, at panel 0-M-27A, in the OPEN posit RIFIED that 2-FCV-67-143 DOES NOT O	ion until it is		
	[14]	HD	ACE AND HOLD 2-HS-67-143A, CCS HX R A, at panel 0-M-27A, in the CLOSE pos RIFIED that 2-FCV-67-143 DOES NOT C	sition until it is		
	- ·		ACE 2-HS-67-143C, CCS HX B ERCW B TL HAND SW C, at 480V RMOV BD 2A2- CLOSE position, AND	• • • • • • • • • • • • • • • • • • • •		
		VE	RIFY:			
		Α.	Red light OFF at 480V RMOV BD 2A2-A	A Compt. 15A		
		D	Green light ON at 480V PMOV RD 242-	A Compt 15A		

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 46 of 13		
	Data	Pack	kage: Page of		Date	
6.5		Log	-143-A, CCS HX B OUTLET ERCW FLOW pic, Stroke Time, and Thermal Overload E d)			
	[16]	CN	ACE 2-HS-67-143C, CCS HX B ERCW BYF TL HAND SW C, at 480V RMOV BD 2A2-A OPEN position, AND)	
		VE	RIFY:		·	
		A .	Red light ON at 480V RMOV BD 2A2-A Co	ompt. 15A	 . <u></u>	
		В.	Green light OFF at 480V RMOV BD 2A2-A	A Compt. 15A		
	[17]	CN	ACE 2-HS-67-143C, CCS HX B ERCW BYF TL HAND SW C, at 480V RMOV BD 2A2-A CLOSE position, AND))	
		VE	RIFY:			
		A.	Red light OFF at 480V RMOV BD 2A2-A	Compt. 15A		
		B.	Green light ON at 480V RMOV BD 2A2-A	Compt. 15A		
	[18] PLACE 2-XS-67-143, CCS HX B ERCW BYPASS FLOW CNTL XFER SW, at 480V RMOV BD 2A2-A Compt 15A, to the NOR position, AND		ne			
		VE	RIFY:			•
	, , , , , , , , , , , , , , , , , , ,	A.	Annunciator 149-C, 2-XA-55-6F, 480 RX N 2A1-A/2A2-A, CLEARS.	MOV BD	 -	
	·	В.	Unit 2 Events Display Legend indicates 14 MOV BD 2A1-A/2A2-A XS IN AUX, is in N		· .	
		C.	Red light OFF at 2-HS-67-143A			_
		D.	Green light ON at 2-HS-67-143A		,	

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6.5		e Log	-143-A, CCS HX B OUTLET ERCW FLOW gic, Stroke Time, and Thermal Overload E d)	
	[19]		ACE 2-HS-67-143A, CCS HX B DISCH TO 1-27A, in the CLOSE position, AND	HDR A, at panel
		VE	RIFY:	
		A.	2-FCV-67-143-A is FULLY CLOSED (Local	ally)
		, B .	Red light OFF at 2-HS-67-143A	·
	,	C.	Green light ON at 2-HS-67-143A	· · · · · · · · · · · · · · · · · · ·
	[20]	OP	EN Breaker 15A at 480V RMOV BD 2A2-A	·
٠	[21]		NUALLY TRIP the thermal overload circuit OV BD 2A2-A Compt 15A.	ry at 480V
	[22]	CL	OSE Breaker 15A at 480V RMOV BD 2A2-A	٨.
	[23]		ACE 2-HS-67-143A, CCS HX B DISCH TO 1-27A, in the OPEN position, AND	HDR A, at panel
		VE	RIFY that 2-FCV-67-143 DOES NOT OPEN	l (locally).
•	[24]		IILE HOLDING 2-HS-67-143A, CCS HX B In the OPEN position, DEPRESS, AND	DISCH TO HDR
			LD Armature of Overload Bypass Relay K9 OV Bd 2A2-A, CMPT 6D, to simulate Overl D	
٠.		VE	RIFY 2-FCV-67-143-A OPENS. (ACC CRI	Γ)
	[25]		ACE 2-HS-67-143A, CCS HX B DISCH TO 1-27A, in the CLOSE position, AND	HDR A, at panel
•		VE	RIFY that 2-FCV-67-143 CLOSES (locally).	
	[26]	RE	LEASE K9 Relay Armature.	· · · · · · · · · · · · · · · · · · ·
	[27]		ACE 2-HS-67-143A, CCS HX B DISCH TO EN position, AND	HDR A, to the
		VE	RIFY 2-FCV-67-143-A DOES NOT OPEN.	(ACC CRIT)

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6.5	Valve	7-67-143-A, CCS HX B OUTLET ERCW FLC Logic, Stroke Time, and Thermal Overloa nued)	
	[28]	MOMENTARILY DEPRESS the thermal over at Compt 15A on 480V RMOV BD 2A2-A.	erload reset button
		NOTES	
1)		[29] through 6.5[32] require valve stroke timi at the Control Switch in both the Open and C	
2)	valve ste with the p	ing begins with the initiating signal and is cor m movement. Remote timing begins with the position indication lights status change. Strok the movement to the safety function final po	initiating signal and is concluded e time acceptance criteria will be
	[29]	SIMULTANEOUSLY PLACE handswitch 2-OPEN position, AND	HS-67-143A to the
		START stopwatches.	

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6.5	2-FCV-67-143-A, CCS HX B OUTLET ERCW FLOW CNTL BYP Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)			
		DP stopwatches when 2-F0 ition, AND	V-67-143-A reaches the	OPEN
	RE	CORD stroke times below:		
-	[30.1]	RECORD remote openir (ACC CRIT)	ng time at 2-HS-67-143A	
		seconds	(≤ 180 seconds)	· ·
	M& ⁻	TE	Cal Due Date	
	[30.2]	RECORD local opening (ACC CRIT)	time at 2-FCV-67-143-A	
		seconds	(≤ 180 seconds)	
	M& ⁻	TE	Cal Due Date	<u> </u>
	• •	IULTANEOUSLY PLACE I	nandswitch 2-HS-67-143	A to the
	STA	ART stopwatches.		

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.5		-143-A, CCS HX B OUTLET gic, Stroke Time, and Thern ed)		
		OP stopwatches when 2-FC\ OSE position AND	7-67-143-A reaches the	
٠.	RE	CORD stroke times below:		
	[32.1]	RECORD remote closing (ACC CRIT)	time at 2-HS-67-143A	· · · · · · · · · · · · · · · · · · ·
	-	seconds	(≤ 180 seconds)	
	M&	TE	Cal Due Date	
	[32.2]	RECORD local closing tim (ACC CRIT)	e at 2-FCV-67-143-A	
	_	seconds	(≤ 180 seconds)	
	M&	TE	Cal Due Date	
		ACE 2-FCV-67-143-A, CCS ITL BYP to the As-Found pos	HX B OUTLET ERCW FLOW ition recorded in Step 6.5[2]	·
	As	Left position	· ·	
		RIFY the successful completi	on of this Subsection 6.5	

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	CV-67-146-A, CCS HX B OUTLET ERCW I jic, Stroke Time, and Thermal Overload E	
	CAUTION	
Performance	e of this subsection will temporarily isolate C	CS HX B ERCW Outlet Header.
[1]	VERIFY all applicable prerequisites listed complete.	in Section 4.0 are
[2]	ENSURE the following Integrated Compupoints are in scan:	ter System (ICS)
	A. FD2141	· · · · · · · · · · · · · · · · · · ·
	B. FD2142	
[3]	RECORD as-found position of 2-FCV-67- OUTLET ERCW FLOW CNTL	146-A, CCS HX B
	As-Found position	·
[4]	VERIFY/PLACE 2-XS-67-146, COMPON DISCH CONTROL VLV XFER SW, at 480 Compt 11A, to the NOR position, AND	
	ENSURE Annunciator 149-C, 2-XA-55-6F 2A1-A/2A2-A, is CLEAR.	F, 480 RX MOV BD
•		
	NOTE	,
Opening 2-F	CV-67-146 may cause fluctuations in ERCV	V system flow and pressure.
[5]	NOTIFY Operations to adjust ERCW syst flows as needed throughout performance this subsection.	
[6]	ENSURE 2-FCV-67-146-A, CCS HX B O CNTL is FULLY OPEN (Locally) (A11S/7	

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6.6		, Str	146-A, CCS HX B OUTLET ERCW FLOW oke Time, and Thermal Overload Bypass d)			
	[7]	CO	ACE 2-HS-67-146C, COMPONENT CLG H NTROL VLV HAND SW C, at 480V RMOV mpt 11A, to the CLOSE position, AND			
		VE	RIFY 2-FCV-67-146-A DOES NOT CLOSE	(locally).	·	
*	[8]		ACE 2-HS-67-146A, CCS HX B ALT DISCH rel 0-M-27A, in the POS B position, AND	TO HDR A, at	·	
		VE	RIFY:			
		Α.	2-FCV-67-146-A CLOSES to an intermedi (Locally)	ate position		
		В.	Red POS B light ON at 2-HS-67-146A	· .	-	
	٠	C.	Red POS A light OFF at 2-HS-67-146A	. ·		
		D.	Red OPEN light OFF at 2-HS-67-146A	<u> </u>		
		E.	Green light OFF at 2-HS-67-146A			
		F.	Red POS B light ON at 480V RMOV BD 2	A2-A, Compt	·	
		G.	Green light OFF at 480V RMOV BD 2A2-A	A, Compt 11A		
		H.	Red POS A light OFF at 480V RMOV BD 11A	2A2-A, Compt —		
		l.	Red OPEN light OFF at 480V RMOV BD 2	A2-A, Compt		
	[9]	CO	ACE 2-HS-67-146C, COMPONENT CLG H NTROL VLV HAND SW C, at 480V RMOV npt 11A, to the OPEN position, AND			
	•	VE	RIFY 2-FCV-67-146-A DOES NOT OPEN (I	ocally)		
÷	[10]	ÇO	ACE 2-HS-67-146C, COMPONENT CLG H NTROL VLV HAND SW C, at 480V RMOV		i .	

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6.6 2-FCV-67-146-A, CCS HX B OUTLET ERCW FLOW CNTL Valve Logic, Stroke Time, and Thermal Overload Bypass Test (continued)						
			NOT	E		
Annı step.		149-C, 2	-XA-55-6F, 480 RX MOV	BD 2A1-A/2A2-A will alarm in	n the following	
	[11]	CONT	E 2-XS-67-146, COMPON ROL VLV XFER SW, at 48 the AUX position, AND	ENT CLG HTX B DISCH 80V RMOV BD 2A2-A Comp	1	
		VERIF	Y :			
			nnunciator 149-C, 2-XA-55 1-A/2A2-A, ALARMS.	6-6F, 480 RX MOV BD		
			nit 2 Events Display Leger OV BD 2A1-A/2A2-A XS II	nd indicates 149-C, 480 RX N AUX, is in ALARM		
		C. Re	ed POS B light OFF at 2-h	IS-67-146A		
	[12]	OPEN	Breaker 11A at 480V RM	OV BD 2A2-A, AND		
		VERIF	Y ICS point FD2141 displa	ays PWR OFF		
٠	[13]	CLOSE	E Breaker 11A at 480V RN	MOV BD 2A2-A, AND		
		VERIF	Y ICS point FD2141 displa	ys PWR ON		
•	[14]		E 2-HS-67-146A, CCS HX D-M-27A, in the POS A pos	B ALT DISCH TO HDR A, a sition, AND	t	
	. •	VERIF	Y that 2-FCV-67-146 DOE	S NOT OPERATE (locally).	· · · · · · · · · · · · · · · · · · ·	
	[15]		2-HS-67-146A, CCS HX I-M-27A, in the CLOSE po	B ALT DISCH TO HDR A, a sition, AND	t	
	-	VERIE	Y that 2-FCV-67-146 DOF	S NOT OPERATE (locally)		

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6.6		c, Str	146-A, CCS HX B OUTLET ERCW FLOW toke Time, and Thermal Overload Bypass d)	
	[16]		ACE 2-HS-67-146A, CCS HX B ALT DISCH lel 0-M-27A, in the OPEN position, AND	TO HDR A, at
		VEI	RIFY that 2-FCV-67-146 DOES NOT OPER	ATE (locally).
	-		NOTE	
Ensur possib		PL/ CO	ACE 2-HS-67-146C, COMPONENT CLG H NTROL VLV HAND SW C, at 480V RMOV mpt 11A, to the CLOSE position, AND	TX B DISCH
			RIFY:	
		A.	2-FCV-67-146-A CLOSES (Locally)	<u> </u>
		В.	Red POS B light OFF at 2-HS-67-146A	···
•		C.	Red POS A light OFF at 2-HS-67-146A	<u> </u>
	,	D.	Red OPEN light OFF at 2-HS-67-146A	· · · · · · · · · · · · · · · · · · ·
		E.	Green light OFF at 2-HS-67-146A	
		F.	Red POS B light OFF at 480V RMOV BD 11A	2A2-A, Compt
		G.	Green light ON at 480V RMOV BD 2A2-A	Compt 11A
		H.	Red POS A light OFF at 480V RMOV BD 11A	2A2-A, Compt
		I,	Red OPEN light OFF at 480V RMOV BD 2	2A2-A, Compt
		.1	ICS point 2142 displays CLOSED	

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WBN

	Unit 2		2 F		
	Data	Pack	age: Page of	D	ate
6.6		c, Str	146-A, CCS HX B OUTLET ERCW FLOV oke Time, and Thermal Overload Bypas d)		
	[18]	HT.	MEDIATELY PLACE 2-HS-67-146C, COM X B DISCH CONTROL VLV HAND SW C, 2A2-A Compt 11A, to the OPEN position,	at 480V RMOV	
			RIFY the following begins to occur approxi or 2-FCV-67-146-A CLOSES:	mately 4 seconds	
•		Ä.	2-FCV-67-146-A OPENS (Locally)		
		В.	Red POS B light OFF at 2-HS-67-146A		
		C.	Red POS A light OFF at 2-HS-67-146A	•	
		D.	Red OPEN light OFF at 2-HS-67-146A		
•	÷	E	Green light OFF at 2-HS-67-146A		
		F.	Red POS B light OFF at 480V RMOV BE	2A2-A, Compt	
		G.	Green light OFF at 480V RMOV BD 2A2	-A, Compt 11A	
	• .	H.	Red POS A light OFF at 480V RMOV BD	2A2-A, Compt	
		I.	Red OPEN light ON at 480V RMOV BD 111A	2A2-A, Compt	
		J.	ICS point 2142 displays NOT CLS	•	
	[19]	CC	ACE 2-XS-67-146, COMPONENT CLG H ⁻ NTROL VLV XFER SW, at 480V RMOV B A, to the NOR position, AND		
		VE	RIFY:		
		A.	Annunciator 149-C, 2-XA-55-6F, 480 RX 2A1-A/2A2-A, CLEARS.	(MOV BD	
		В.	Unit 2 Events Display Legend indicates MOV BD 2A1-A/2A2-A XS IN AUX, is in		
•		C.	Red OPEN light ON at 2-HS-67-146A	•	

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WBN

	WBN Unit 2		1		5	
	Data	Pack	cage: Page of	ı	Date	· .
6.6		, Str	-146-A, CCS HX B OUTLET ERCW FLOW roke Time, and Thermal Overload Bypass d)			
	[20]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the POS A position, AND	TO HDR A, at		
		VE	RIFY:	•	,	
		A.	2-FCV-67-146-A CLOSES to an intermedi (Locally)	ate position		
		В.	Red POS B light OFF at 2-HS-67-146A			
•		C.	Red POS A light ON at 2-HS-67-146A		***************************************	
		D.	Red OPEN light OFF at 2-HS-67-146A			
		E.	Green light OFF at 2-HS-67-146A			
		۰F.	Red POS B light OFF at 480V RMOV BD 11A	2A2-A, Compt		
	•	G.	Green light OFF at 480V RMOV BD 2A2-A	A, Compt 11A		
	٠	H.	Red POS A light ON at 480V RMOV BD 2 11A	A2-A, Compt	_	
	٠	I.	Red OPEN light OFF at 480V RMOV BD 2	2A2-A, Compt		

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 57 of 135	
	Data I	Pack	rage: Page of	Date	
6.6		, Str	146-A, CCS HX B OUTLET ERCW FLOW toke Time, and Thermal Overload Bypass d)		
	[21]		ACE 2-HS-67-146A, CCS HX B ALT DISCH rel 0-M-27A, in the CLOSE position, AND	TO HDR A, at	.
		VEI	RIFY:		
		Α.	2-FCV-67-146-A CLOSES (Locally)	: 	
		В.	Red POS B light OFF at 2-HS-67-146A	· -	
		C.	Red POS A light OFF at 2-HS-67-146A		
		D.	Red OPEN light OFF at 2-HS-67-146A	· -	
		E.	Green light ON at 2-HS-67-146A	-	T-47-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-
		F.	Red POS B light OFF at 480V RMOV BD 111A	2A2-A, Compt	
٠		G.	Green light ON at 480V RMOV BD 2A2-A,	Compt 11A	
		Н.	Red POS A light OFF at 480V RMOV BD 111A	2A2-A, Compt	.'.
	•	1.	Red OPEN light OFF at 480V RMOV BD 2	2A2-A, Compt	· · · .

·	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 58 of 135
	Data	Pacl	kage: Page of	Date
6.6		c, Str	-146-A, CCS HX B OUTLET ERCW FLOW roke Time, and Thermal Overload Bypass d)	
	[22]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the POS A position, AND	TO HDR A, at
		VE	RIFY:	
	•	Α.	2-FCV-67-146-A OPENS to an intermedia (Locally)	te position
		B.	Red POS B light OFF at 2-HS-67-146A	· · ·
		C.	Red POS A light ON at 2-HS-67-146A	
		D.	Red OPEN light OFF at 2-HS-67-146A	
		Ε.	Green light OFF at 2-HS-67-146A	
		F.	Red POS B light OFF at 480V RMOV BD 2	2A2-A, Compt
		G.	Green light OFF at 480V RMOV BD 2A2-A	A, Compt 11A
		H.	Red POS A light ON at 480V RMOV BD 2.	A2-A, Compt
•		1.	Red OPEN light OFF at 480V RMOV BD 2	A2-A, Compt
	[23]	CO	ACE 2-HS-67-146C, COMPONENT CLG HT NTROL VLV HAND SW C, at 480V RMOV Impt 11A, to the NORMAL position.	
	[24]	CO	ACE 2-XS-67-146, COMPONENT CLG HTX NTROL VLV XFER SW, at 480V RMOV BD A, to the AUX position, AND	
		VE	RIFY Red POS A light OFF at 2-HS-67-146	_
			· · · · · · · · · · · · · · · · · · ·	•

[25] PLACE 2-XS-67-146, COMPONENT CLG HTX B DISCH CONTROL VLV XFER SW, at 480V RMOV BD 2A2-A Compt 11A, to the NOR position

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 59 of 135
	Data	Date		
6.6		c, Stı	-146-A, CCS HX B OUTLET ERCW FLOW roke Time, and Thermal Overload Bypass d)	
	[26]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the CLOSE position, AND	I TO HDR A, at
		VE	RIFY:	
	•	A.	2-FCV-67-146-A CLOSES (Locally)	·
		В.	Red POS B light OFF at 2-HS-67-146A	
		C.	Red POS A light OFF at 2-HS-67-146A	
		D.	Red OPEN light OFF at 2-HS-67-146A	
		E.	Green light ON at 2-HS-67-146A	·
		F.	Red POS B light OFF at 480V RMOV BD 11A	2A2-A, Compt
		G.	Green light ON at 480V RMOV BD 2A2-A	, Compt 11A
		H.	Red POS A light OFF at 480V RMOV BD 11A	2A2-A, Compt
		1.	Red OPEN light OFF at 480V RMOV BD 2	2A2-A, Compt

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 60 of 135	
	Data	a Pac	kage: Page of	Date	
6.6	Log		'-146-A, CCS HX B OUTLET ERCW FLO roke Time, and Thermal Overload Bypa ed)		
	[27]		ACE 2-HS-67-146A, CCS HX B ALT DISC nel 0-M-27A, in the POS B position, AND	CH TO HDR A, at	
		VE	RIFY:		
		Α.	2-FCV-67-146-A OPENS to an intermed (Locally)	liate position	
		В.	Red POS B light ON at 2-HS-67-146A	·	
	÷	C.	Red POS A light OFF at 2-HS-67-146A		
		D.	Red OPEN light OFF at 2-HS-67-146A		
		E.	Green light OFF at 2-HS-67-146A		
		F.	Red POS B light ON at 480V RMOV BD	2A2-A, Compt	·.·
		G.	Green light OFF at 480V RMOV BD 2A	2-A, Compt 11A	
•		H.	Red POS A light OFF at 480V RMOV B 11A	D 2A2-A, Compt	
		1.	Red OPEN light OFF at 480V RMOV BI	2A2-A, Compt	

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 61 of 135
•	Data	Pacl	kage: Page of	Date
6.6		c, Sti	-146-A, CCS HX B OUTLET ERCW FLOW roke Time, and Thermal Overload Bypass ed)	
	[28]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the OPEN position, AND	TO HDR A, at
		VE	RIFY:	
•		A.	2-FCV-67-146-A OPENS (Locally)	
		В.	Red POS B light OFF at 2-HS-67-146A	
	•	C.	Red POS A light OFF at 2-HS-67-146A	·
	•	D.	Red OPEN light ON at 2-HS-67-146A	
		E.	Green light OFF at 2-HS-67-146A	
		F.	Red POS B light OFF at 480V RMOV BD 2	2A2-A, Compt
		G.	Green light OFF at 480V RMOV BD 2A2-A	A, Compt 11A
		H.	Red POS A light OFF at 480V RMOV BD 2	2A2-A, Compt
		l.	Red OPEN light ON at 480V RMOV BD 24	A2-A, Compt
	[29]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the CLOSE position, AND	TO HDR A, at
		VE	RIFY 2-FCV-67-146-A CLOSES (Locally)	
	[30]	OP	EN Breaker 11A at 480V RMOV BD 2A2-A	
	[31]		NUALLY TRIP the thermal overload circuitr NOV BD 2A2-A Compt 11A.	y at 480V
٠	[32]	CL	OSE Breaker 11A at 480V RMOV BD 2A2-A	.
	[33]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the OPEN position, AND	TO HDR A, at
ţ		VE	PIEV that 2-ECV-67-146 DOES NOT OPEN	(locally)

WBN Unit 2			ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 62 of 135		
Data Package: Page of				Date		
6.6		, Stı	67-146-A, CCS HX B OUTLET ERCW FLOW CNTL Valve Stroke Time, and Thermal Overload Bypass Test ued)			
	[34]	K5	PRESS AND HOLD Armature of Overload E in rear of 480V RMOV Bd 2A2-A, CMPT 6D erload Bypass AND	· · · · · · · · · · · · · · · · · · ·		
.•		VE	RIFY 2-FCV-67-146-A OPENS. (ACC CRIT			
	[35]		ACE 2-HS-67-146A, CCS HX B ALT DISCH nel 0-M-27A, in the CLOSE position, AND	TO HDR A, at		
		VE	RIFY 2-FCV-67-146-A CLOSES (Locally)	·		
[36] RELEASE K5 Relay Armature.			·			
[37] PLACE 2-HS-67-146A, CCS HX B the OPEN position, AND		ACE 2-HS-67-146A, CCS HX B ALT DISCH OPEN position, AND	TO HDR A, to			
		VE	RIFY 2-FCV-67-146-A DOES NOT OPEN.	(ACC CRIT)		
	[38]		DMENTARILY DEPRESS the thermal overlo Compt 11A on 480V RMOV BD 2A2-A.	ead reset button		
			NOTES			
1)			through 6.6[42] require valve stroke timing ne Control Switch in both the Open and Clos			
2)	Local timing begins with the initiating signal and is concluded with the completion of valve stem movement. Remote timing begins with the initiating signal and is conclude with the position indication lights status change. Stroke time acceptance criteria will be based on the movement to the safety function final position of the valve.			tiating signal and is concluded me acceptance criteria will be		
	[39]		MULTANEOUSLY PLACE handswitch 2-HSPEN position, AND	-67-146A to the		
START stopwatches.						

	Unit 2		Rev. 0000 Page 63 of 135	
	Data Pacl	kage: Page of	D	ate
.6		roke Time, and Thermal C	T ERCW FLOW CNTL Valve verload Bypass Test	
		OP stopwatches when 2-F0 sition, AND	CV-67-146-A reaches the OPEN	
	RE	CORD stroke times below:		
	[40.1]	RECORD remote openin (ACC CRIT)	ng time at 2-HS-67-146A	
	.	seconds	(≤ 60 seconds)	
-	М&	TE	Cal Due Date	
	[40.2]	RECORD local opening (ACC CRIT)	time at 2-FCV-67-146-A	
	·	seconds	(≤ 60 seconds)	
	М&	TE	Cal Due Date	· .
		MULTANEOUSLY PLACE OSE position, AND	nandswitch 2-HS-67-146A to the	
	CT.	APT stopwotoboo		

	WBN Unit 2	ERCW VALVE LOGI	ERCW VALVE LOGIC TEST	
	Data Pac	kage: Page of		Date
6.6		r-146-A, CCS HX B OUTLET roke Time, and Thermal Overed)		
		OP stopwatches when 2-FCV OSE position AND	/-67-146-A read	ches the
	RE	CORD stroke times below:		·
	[42.1]	RECORD remote closing (ACC CRIT)	time at 2-HS-67	7-146A
	_	seconds	(≤ 60 s	econds)
	M8	TE	_ Cal Due Dat	e
	[42.2]	RECORD local close time (ACC CRIT)	at 2-FCV-67-1	46-A
	_	seconds	(≤ 60 s	econds)
	M8	TE	Cal Due Dat	е
		ACE 2-FCV-67-146-A, CCS I		
	As	-Left position	· ·	
	[44] V E	RIFY the successful complete	on of this Subs	ection 6.6

(ACC CRIT)

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Unit	2

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	Data	a Package: Page of	Date
6.7		CV-67-84-A, LOWER CNTMT VENT CLR 2A-A OUT TEMP TL Valve Logic Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	VERIFY/PLACE 2-XS-67-84, LWR CNTMT CLR A-A ERCW OUTLET TCV, at Panel 2-L-11A, to the NORM position, AND	
	•	ENSURE Annunciator 148-B, ACR PNL 2-L-11A is CLEAR.	
•	[3]	VERIFY/PLACE 2-HS-67-84A, LWR CNTMT CLR A OUTLET TCV, at Panel 0-M-27A, to the P-AUTO position.	· · · .
	[4]	VERIFY/PLACE 2-HS-67-84C, LOWER CNTMT CLR 2A-A ERCW OUTLET TCV, at Panel 2-L-10, to the P-AUTO position.	· .
	[5]	RECORD as-found setting on 2-TIC-67-84, LOWER CNTMT VENT CLR 2A TEMP CNTL, at Panel 2-L-26 (EL 692, A15-U)	
		As-Found setting	
	[6]	PLACE 2-TIC-67-84, LOWER CNTMT VENT CLR 2A TEMP CNTL, at Panel 2-L-26 (EL 692, A15-U), in AUTO, AND	
٠.		ADJUST for maximum cooling.	<u></u>
	[7]	ENSURE/START Reactor Lower Compartment Cooler Fan 24 per 2-SOI-30.03, AND	
		VERIFY the following:	
		A. 2-TCV-67-84-A, LWR CNTMT VENT CLR 2A-A OUT TEMP CNTL, is OPEN to the MODULATE position (locally) (IC/723/AZ-12) (ACC CRIT).	·
٠		B. Red Light ON for 2-HS-67-84A at 0-M-27A.	
		C. Green Light OFF for 2-HS-67-84A at 0-M-27A.	
		D. Red Light OFF for 2-HS-67-84C at 2-L-10.	· <u>· </u>
		E. Green Light OFF for 2-HS-67-84C at 2-L-10.	·

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•	Data	Package: Page of	Date
i. 7		/-67-84-A, LOWER CNTMT VENT CLR 2A-A OU . Valve Logic Test (continued)	T TEMP
	[8]	STOP Reactor Lower Compartment Cooler Fan 2-SOI-30.03, AND	2A per
		VERIFY the following:	
		A. 2-TCV-67-84-A, LWR CNTMT VENT CLR 2 TEMP CNTL, CLOSES (locally).	A-A OUT
		B. Green Light ON for 2-HS-67-84A at 0-M-27	A
		C. Red Light OFF for 2-HS-67-84A at 0-M-27A	.
	,	D. Green Light OFF for 2-HS-67-84C at 2-L-10).
		E. Red Light OFF for 2-HS-67-84C at 2-L-10.	
	[9]	PLACE 2-XS-67-84, LWR CNTMT CLR A-A ER TCV, to the AUX position, AND	CW OUTLET
	·	VERIFY the following:	
		A. 2-TCV-67-84-A, LWR CNTMT VENT CLR 2 TEMP CNTL, REMAINS CLOSED (locally).	
		B. Green Light ON for 2-HS-67-84C at 2-L-10.	
		C. Red Light OFF for 2-HS-67-84C at 2-L-10.	· · · · · · · · · · · · · · · · · · ·
		D. Green Light OFF for 2-HS-67-84A at 0-M-2	7A
	,	E. Red Light OFF for 2-HS-67-84A at 0-M-27A	\ .
		F. Annunciator 148-B, 2-XA-55-6F, ACR PNL ALARMS.	2-L-11A
		G. Unit 2 Events Display Legend indicates 1482-L-11A XS IN AUX, is in ALARM.	3-B, ACR PNL
	[10]	ENSURE/ADJUST 2-TIC-67-84, LOWER CNTM 2A TEMP CNTL, for maximum cooling.	IT VENT CLR

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	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 67 of 135
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6.7			-84-A, LOWER CNTMT VENT CLR 2A-A ve Logic Test (continued)	OUT TEMP
	[11]		ART Reactor Lower Compartment Cooler I-30.03, AND	Fan 2A per 2-
		VE	RIFY the following:	
		A.	2-TCV-67-84-A, LWR CNTMT VENT CL TEMP CNTL, OPENS to the MODULATI (ACC CRIT)	
		·B.	Red Light ON for 2-HS-67-84C at 2-L-10	
		C.	Green Light OFF for 2-HS-67-84C at 2-L	-10.
		D.	Red Light OFF for 2-HS-67-84A at 0-M-2	27A. <u> </u>
		Ε.	Green Light OFF for 2-HS-67-84A at 0-M	1-27A.
	[12]		ACE 2-HS-67-84C, LOWER CNTMT CLR	2A-A ERCW
		VE	RIFY 2-TCV-67-84-A CLOSES (locally). (ACC CRIT)
	[13]		ACE 2-HS-67-84C, LOWER CNTMT CLR ITLET TCV, to the P-AUTO position, AND	2A-A ERCW
	٠.		RIFY 2-TCV-67-84-A OPENS to the moducally).	late position
	[14]		ACE 2-XS-67-84, LWR CNTMT CLR A-A V, to the NORMAL position, AND	ERCW OUTLET
		VE	RIFY the following:	
	•	A.	Annunciator 148-B, 2-XA-55-6F, ACR Pl	NL 2-L-11A
		В.	Unit 2 Events Display Legend indicates 2-L-11A XS IN AUX, is in NORMAL.	148-B, ACR PNL
	[15]		ACE 2-HS-67-84A, LWR CNTMT CLR A CCLOSE position, AND	OUTLET TCV, to
		\/E	DIEV 2 TOV 67 94 A CLOSES (Isselfic)	ACC CDIT)

l	WBN Jnit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 68 of 135	
	Data	Pack	age: Page of	Dat	e
6.7			84-A, LOWER CNTMT VENT CLR 2A-A Cove Logic Test (continued)	OUT TEMP	
		 .	NOTE		
The fo	ollowing	step	will simulate a loss of power.		<u>-</u>
	[16]		LL Fuse 2-FU-276-L26A/1 at Panel 2-L-26 (X BLDG).	(A15-U, EL 692,	·
		•			1st
					CV
	[17]	VE	RIFY the following:		
. *	•	Α.	2-TCV-67-84-A, LWR CNTMT VENT CLR TEMP CNTL, OPENS to modulate (locally		·
		B.	Green Light OFF for 2-HS-67-84A at 0-M-	27A.	
		C.,	Red Light ON for 2-HS-67-84A at 0-M-27A	A. '	- : : -
			NOTE	,	
Annur	nciator 1	48-E	3, 2-XA-55-6F, ACR PNL 2-L-11A will ALAR	M in the following s	step
	[18]		ACE 2-XS-67-84, LWR CNTMT CLR A-A El / to the AUX position, AND	RCW OUTLET	
		VEF	RIFY the following:		•
		A.	Red Light ON for 2-HS-67-84C at 2-L-10.		
		В.	Green Light OFF for 2-HS-67-84C at 2-L-1	0.	
	[19]		ACE 2-XS-67-84, LWR CNTMT CLR A-A EF	RCW OUTLET	
	[20]	RE	PLACE Fuse 2-FU-276-L26A/1A at Panel 2	-L-26	·
•					1st
		,			CV

	Unit 2		Rev. 0000 Page 69 of 135
	Data	Package: Page of	Date
6.7		V-67-84-A, LOWER CNTMT VENT CLR 2A-A O . Valve Logic Test (continued)	UT TEMP
	[21]	PLACE 2-HS-67-84A, LWR CNTMT CLR A OUT the CLOSE position, AND	TLET TCV, to
		VERIFY 2-TCV-67-84-A CLOSES (locally).	·
			:
		NOTE	
The	following	steps will simulate a loss of control air.	
-	[22]	CLOSE 2-ISV-32-3609, CONTROL AIR ISOLA TO 2-TCV-67-84-A.	TION VALVE
	[23]	OPEN bleed petcock at 2-PREG-67-84, CONTI PRESSURE REG FOR 2-TCV-67-84-A, to VEN AND	
		VERIFY 2-TCV-67-84-A, LWR CNTMT VENT CTEMP CNTL, is FULLY OPEN (locally).	CLR 2A-A OUT
	[24]	CLOSE bleed petcock at 2-PREG-67-84, CON PRESSURE REG FOR 2-TCV-67-84-A.	TROL AIR
	[25]	OPEN 2-ISV-32-3609 AND	•
	·	VERIFY 2-TCV-67-84-A, LWR CNTMT VENT OF TEMP CNTL CLOSES to the MODULATE positions.	
	[26]	PLACE 2-TIC-67-84, LOWER CNTMT VENT CONTL, at Panel 2-L-26 (EL 692, A15-U) to the Assetting recorded in Step 6.7[5]	
٠		As-Left setting	

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	WBN Unit 2	ERCW VALVE L	ERCW VALVE LOGIC TEST		5
	Data	Package: Page of			Date
6.8		V-67-92-A, LOWER CNTMT e Logic Test	VENT CLR 2C OU	T TEMP CNTL	
	[1]	VERIFY all applicable prere- been completed.	quisites listed in Se	ction 4.0 have	
	[2]	VERIFY/PLACE 2-XS-67-92 OUTLET TCV, at Panel 2-L-			
		ENSURE Annunciator 148-E is CLEAR.	3, 2-XA-55-6F, ACF	R PNL 2-L-11A,	
	[3]	VERIFY/PLACE 2-HS-67-92 TCV, at Panel 0-M-27A, to t			
	[4]	VERIFY/PLACE 2-HS-67-92 ERCW OUTLET TCV, at Paposition.			
	[5]	RECORD as-found setting of VENT CLR 2C OUT TEMP (A15-U)			
		As-Found setting		• •	
	[6]	PLACE 2-TIC-67-92, LWR (5

ADJUST for maximum cooling.

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 71 of 135
٠	Data Package: Page of		Date	
6.8	2-TCV-67-92-A, LOWER CNTMT VENT CLR 2C OUT TEMP CNTL Valve Logic Test (continued)			
	[7]	[7] ENSURE/START Reactor Lower Compartment Cooler Fan 2C per 2-SOI-30.03, AND		
	. (VE	RIFY the following:	
•		A.	2-TCV-67-92-A, LOWER CNTMT VENT CTEMP CNTL, is OPEN to the MODULATE (locally) (IC/723/AZ-185) (ACC CRIT).	
	٠.	В.	Red Light ON for 2-HS-67-92A at Panel 0	-M-27A.
		C.	Green Light OFF for 2-HS-67-92A at Pane	el 0-M-27A.
		D.	Red Light OFF for 2-HS-67-92C at 2-L-10	
		Ε.	Green Light OFF for 2-HS-67-92C at 2-L-	10.
	[8]		OP Reactor Lower Compartment Cooler Fa OI-30.03, AND	n 2C per
		VE	RIFY the following:	
	•	Α.	2-TCV-67-92-A, LOWER CNTMT VENT OF TEMP CNTL, CLOSES (locally).	CLR 2C OUT
		В.	Red Light OFF for 2-HS-67-92A at Panel	0-M-27A.
		C.	Green Light ON for 2-HS-67-92A at Panel	0-M-27A.
	•	D.	Red Light OFF for 2-HS-67-92C at 2-L-10	•
		E.	Green Light OFF for 2-HS-67-92C at 2-L-	10.

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 72 of 135			
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6.8		2-TCV-67-92-A, LOWER CNTMT VENT CLR 2C OUT TEMP CNTL Valve Logic Test (continued)					
			NOTE				
Ann	unciator 1	148-B,	2-XA-55-6F, ACR PNL 2-L-11A will alarm	in the following step.			
	[9]		CE 2-XS-67-92, LOWER CNTMT VENT C AUX position, AND	LR 2C TEMP,			
		VERI	FY the following:				
			2-TCV-67-92-A LOWER CNTMT VENT C TEMP CNTL, REMAINS CLOSED (locally				
		В. (Green Light ON for 2-HS-67-92C at 2-L-10	D. •			
		C. I	Red Light OFF for 2-HS-67-92C at 2-L-10	•			
		D. I	Red Light OFF for 2-HS-67-92A at Panel (0-M-27A.			
		E., (Green Light OFF for 2-HS-67-92A at Pane	el 0-M-27A.			
			Annunciator 148-B, 2-XA-55-6F, ACR PN ALARMS.	L 2-L-11A 			
			Unit 2 Events Display Legend indicates 14 2-L-11A XS IN AUX, is in ALARM.	18-B, ACR PNL			
	[10]		URE/ADJUST 2-TIC-67-92, LWR CNTMT TEMP CNTL, for maximum cooling.	VENT CLR 2C			

	WBN Unit 2		ERCW V	ALVE LOGIC	TEST	2-PTI-067-03 Rev. 0000 Page 73 of 135	
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6.8			-92-A, LOWER (gic Test (contin		CLR 2C OUT	TEMP CNTL	
	[11]		SURE/START F 2-SOI-30.03, A		Compartment	Cooler Fan 2C	,
		VE	RIFY the Follow	ing:		•	
		A.	2-TCV-67-92-A TEMP CNTL, ((ACC CRIT).			LR 2C OUT position (locally)	· .
		В.	Red Light ON	for 2-HS-67-92	C at 2-L-10.		
		C.	Green Light O	FF for 2-HS-67	-92C at 2-L-1	0	
		D.	Red Light OFF	for 2-HS-67-9	2A at Panel 0)-M-27A.	
		E.	Green Light O	FF for 2-HS-67	-92A at Pane	0-M-27A.	
	[12]		ACE 2-HS-67-92 CW OUTLET TO				
		VE	RIFY 2-TCV-67-	-92-A CLOSES	(locally). (A	CC CRIT)	
	[13]		ACE 2-HS-67-92 CW OUTLET TO				
			RIFY 2-TCV-67- cally).	-92-A OPENS t	o the MODUI	_ATE position	
	[14]		ACE 2-XS-67-92 the NORMAL po		TMT VENT C	LR 2C TEMP,	
,		VE	RIFY the following	ng:			
		A.	Annunciator 14 CLEARS.	48-B, 2-XA-55-	6F, ACR PNL	. 2-L-11A,	
		В.		Display Legend I AUX, is in NO		8-B, ACR PNL	
	[15]		ACE 2-HS-67-99 CLOSE position		1T CLR 2C O	UTLET TCV, to	
		VE	DIEV 2 TOV 67	02 A CLOSES	· (lesselly) /AC	C CDIT	

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 74 of 135			
	Data	Package: Page of	Date	·		
6.8 2-TCV-67-92-A, LOWER CNTMT VENT CLR 2C OUT TEMP CNTL Valve Logic Test (continued)						
		NOTE		-		
The fo	llowing	step will simulate a loss of power.				
	[16]	PULL Fuse 2-FU-276-L26A/5 at Panel 2-L-26 AUX BLDG)	(A15-U, EL 692			
		· · · · · · · · · · · · · · · · · · ·	- -	1st		
			•	CV		
	[17]	VERIFY the following:	•			
٠		A. 2-TCV-67-92-A, LOWER CNTMT VENT OF TEMP CNTL, OPENS to modulate (locally				
		B. Red Light ON for 2-HS-67-92A at Panel 0	-M-27A.			
		C. Green Light OFF for 2-HS-67-92A at Pane	el 0-M-27A.			
		NOTE				
Annun	ciator	148-B, 2-XA-55-6F, ACR PNL 2-L-11A will alarm	n in the following step.			
	[18]	PLACE 2-XS-67-92, LOWER CNTMT VENT Control the AUX position, AND	CLR 2C TEMP to			
		VERIFY the following:				
		A. Red Light ON for 2-HS-67-92C at 2-L-10.				
		B. Green Light OFF for 2-HS-67-92C at 2-L-	10.	٠.		
	[19]	PLACE 2-XS-67-92, LOWER CNTMT VENT Of to the NORM position.	CLR 2C TEMP,			
	[20]	REPLACE Fuse 2-FU-276-L26A/5A at Panel 2	2-L-26.			
			_	1st		
				CV		

	WBN Unit 2		ERCW	V VALVE LOGIC	TEST	2-PTI-067-03 Rev. 0000 Page 75 of 135	
	Data	Pacl	kage: Page _	of	•	Da	te
6.8	6.8 2-TCV-67-92-A, LOWER CNTMT VENT CLR 2C OUT TEMP CNTL Valve Logic Test (continued)						
	[21]		ACE 2-HS-67- CLOSE posit	-92A LWR CNTN tion, AND	MT CLR 2C O	UTLET TCV, to	
		VE	RIFY 2-TCV-6	67-92-A CLOSES	S (locally)		
				NOT	 E		
The	following	step	s will simulate	e a loss of contro	ol air.	•	
	[22]		OSE 2-ISV-32 2 - TCV-67-92	2-3561, CONTRO 2-A.	OL AIR ISOLA	TION VALVE	
	[23]			cock at 2-PREG- G FOR 2-TCV-67			
				67-92, LOWER C FULLY OPEN (Id		CLR 2C OUT	
	[24]			etcock at 2-PREC G FOR 2-TCV-67		TROL AIR	
	[25]	OP	EN 2-ISV-32-	3561, AND			
				67-92-A, LOWER OSES to the MC			· -
	[26]	CN	TL, at Panel 2	7-92, LWR CNTN 2-L-26 (EL 692, 7 in Step 6.8[5]			
	•	As-	Left setting				

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 76 of 135
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, .				
6.9			00-B, LOWER CNTMT VENT CLI e Logic Test	R 2B OUT TEMP
	[1]		FY all applicable prerequisites liste completed.	d in Section 4.0 have
	[2]		F Y/PLACE 2-XS-67-100, LWR CN ET TCV, at Panel 2-L-11B, to the	
		ENSU	JRE Annunciator 148-C, 2-XA-55-€ EAR.	6F, ACR PNL 2-L-11B,
	[3]		FY/PLACE 2-HS-67-100A, LWR C ET TCV, at Panel 0-M-27A, to the	
	[4]		FY/PLACE 2-HS-67-100C, LOWE ERCW OUTLET TCV, at Panel 2-l on.	
	[5]		ORD as-found setting on 2-TIC-67- CLR 2B OUT TEMP CNTL, at Pa J)	
		As-Fo	ound setting	

PLACE 2-TIC-67-100, LOWER CNTMT VENT CLR 2B OUT

ADJUST for maximum cooling.

TEMP CNTL, in AUTO at Panel 2-L-26 (EL 692, A15-U), AND

[6]

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 77 of 135
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6.9			-100-B, LOWER CNTMT VENT CLR 2B OU gic Test (continued)	JT TEMP CNTL
	[7]		SURE/START Reactor Lower Compartmen 2-SOI-30.03, AND	t Cooler Fan 2B
	•	VE	RIFY the following:	
		A.	2-TCV-67-100-B, LOWER CNTMT VENT TEMP CNTL, is OPEN to the modulate po (IC/723/AZ-168) (ACC CRIT).	
		B.	Red Light ON for 2-HS-67-100A at Panel 6	O-M-27A.
		C.	Green Light OFF for 2-HS-67-100A at Par	nel 0-M-27A.
		D.	Red Light OFF for 2-HS-67-100C at Panel	2-L-10.
		E.	Green Light OFF for 2-HS-67-100C at Par	nel 2-L-10.
	[8]		OP Reactor Lower Compartment Cooler Fai OI-30.03, AND	n 2B per
		VE	RIFY the following:	
		A.	2-TCV-67-100-B, LOWER CNTMT VENT TEMP CNTL, CLOSES (locally).	CLR 2B OUT
		В.	Green Light ON for 2-HS-67-100A at 0-M-	27A
		C.	Red Light OFF for 2-HS-67-100A at 0-M-2	27A
		D.	Red Light OFF for 2-HS-67-100C at 2-L-1	0.
		F	Green Light OFF for 2-HS-67-100C at 2-L	-10

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 78 of 135
Da	ta Pacl	cage: Page of	Date
		-100-B, LOWER CNTMT VENT CLR 2B O	UT TEMP CNTL
		NOTE	
Annunciato	or 148-0	C, 2-XA-55-6F, ACR PNL 2-L-11B will alarm	n in the following step.
[9]		ACE 2-XS-67-100, LWR CNTMT CLR B-B V, to the AUX position, AND	ERCW OUTLET
	VE	RIFY the following:	
	Α.	2-TCV-67-100-B, LOWER CNTMT VENT TEMP CNTL, REMAINS CLOSED (locally	
	В.	Green Light ON for 2-HS-67-100C at Pan	el 2-L-10.
	C.	Red Light OFF for 2-HS-67-100C at Pane	el 2-L-10.
	D.	Green Light OFF for 2-HS-67-100A at Par	nel 0-M-27A.
	E.	Red Light OFF for 2-HS-67-100A at Pane	I 0-M-27A.
	F.	Annunciator 148-C, 2-XA-55-6F, ACR PN ALARMS.	L 2-L-11B
	G.	Unit 2 Events Display Legend indicates 1/2-L-11B XS IN AUX, is in ALARM.	48-C, ACR PNL
· [10	-	SURE/ADJUST 2-TIC-67-100, LWR CNTM	IT VENT CLR

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 79 of 135
•	Data	Paci	kage: Page of	Date
6.9			-100-B, LOWER CNTMT VENT CLR 2B OU gic Test (continued)	JT TEMP CNTL
	[11]		SURE/START Reactor Lower Compartment 2-SOI-30.03, AND	t Cooler Fan 2B
		VE	RIFY the following:	
		A.	2-TCV-67-100-B, LOWER CNTMT VENT TEMP CNTL, OPENS to the MODULATE (ACC CRIT).	
		В.	Green Light OFF for 2-HS-67-100C at Par	nel 2-L-10.
		C.	Red Light ON for 2-HS-67-100C at Panel	2-L-10.
		D.	Green Light OFF for 2-HS-67-100A at Par	nel 0-M-27A.
		E.	Red Light OFF for 2-HS-67-100A at Panel	0-M-27A.
N.	[12]		ACE 2-HS-67-100C, LOWER CNTMT VENT CW OUTLET TCV, to the CLOSE position, A	
		VE	RIFY 2-TCV-67-100-B CLOSES (locally). (A	ACC CRIT)
	[13]		ACE 2-HS-67-100C, LOWER CNTMT VENCEW OUTLET TCV, to the P-AUTO position,	
			RIFY 2-TCV-67-100-B OPENS to the MODUcally).	JLATE position
	[14]		ACE 2-XS-67-100, LWR CNTMT CLR B-B IV, to the NORMAL position, AND	ERCW OUTLET
		VE	RIFY the following:	
		Α.	Annunciator 148-C, 2-XA-55-6F, ACR PNI CLEARS.	L 2-L-11B,
		β.	Unit 2 Events Display Legend indicates 14 2-L-11B XS IN AUX, is in NORMAL.	8-C, ACR PNL
	[15]		ACE 2-HS-67-100A, LWR CNTMT CLR B C CLOSE position, AND	OUTLET TCV, to
		VE	PIEV 2-TCV-67-100 B CL OSES (locally) (A	CC CDIT)

WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 80 of 135	
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	V-67-100-B, LOWER CNTMT VENT CLR 2B e Logic Test (continued)	OUT TEMP CNTL	
	NOTE		 ,.
The following	step will simulate a loss of power.		
[16]	PULL Fuse 2-FU-276-L26D/1 at Panel 2-L-AUX BLDG)	26 (A15-U, EL 692,	
	,		1st
			CV
[17]	VERIFY the following:		,
	A. 2-TCV-67-100-B, LOWER CNTMT VEI TEMP CNTL, OPENS to modulate (loc		
	B. Red Light ON for 2-HS-67-100A at Par	nel 0-M-27A.	
	C. Green Light OFF for 2-HS-67-100A at	Panel 0-M-27A.	
	NOTE		
Annunciator	148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ala	arm in the following step).
[18]	PLACE 2-XS-67-100, LWR CNTMT CLR B TCV to the AUX position, AND	-B ERCW OUTLET	
	VERIFY the following:		
	A. Green Light OFF for 2-HS-67-100C at	Panel 2-L-10.	· ·
	B. Red Light ON for 2-HS-67-100C at Par	nel 2-L-10.	
[19]	PLACE 2-XS-67-100, LWR CNTMT CLR B TCV, to the NORM position.	-B ERCW OUTLET	
[20]	REPLACE Fuse 2-FU-276-L26D/1 at Panel	l 2-L-26	1st
	·		CV

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6.9			-100-B, LOWER CNTMT VENT CLR 2B OU gic Test (continued)	IT TEMP CNTL
	[21]		ACE 2-HS-67-100A, LWR CNTMT CLR B C CLOSE position, AND	UTLET TCV, to
		VE	RIFY 2-TCV-67-100-B CLOSES (locally).	
			NOTE	
The f	following	step	os will simulate a loss of control air.	
	[22]		OSE 2-ISV-32-3563, CONTROL AIR ISOLA 2-TCV-67-100.	TION VALVE
	[23]		EN bleed petcock at 2-PREG-67-100, CON ESSURE REG FOR 2-TCV-67-100, to VEN	
			RIFY 2-TCV-67-100-B, LOWER CNTMT VE IT TEMP CNTL, is FULLY OPEN (Locally).	NT CLR 2B
	[24]		OSE bleed petcock at 2-PREG-67-100, COI ESSURE REG FOR 2-TCV-67-100.	NTROL AIR
	[25]	OP	EN 2-ISV-32-3563, AND	
		OU	RIFY 2-TCV-67-100-B, LOWER CNTMT VE IT TEMP CNTL, CLOSES to the MODULAT cally).	
	[26]	TE	ACE 2-TIC-67-100, LOWER CNTMT VENT MP CNTL, at Panel 2-L-26 (EL 692, A15-U) und Setting recorded in Step 6.9[5].	
		As-	Left setting	

_	WBN Jnit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 82 of 135
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6.10		108-B, LOWER CNTMT VENT CLR 20 ve Logic Test	O OUT TEMP

	CV-67-108-B, LOWER CNTMT VENT CLR 2D OUT TEMP 'L Valve Logic Test	
[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
[2]	VERIFY/PLACE 2-XS-67-108, LWR CNTMT CLR D-B ERCW OUTLET TCV, at Panel 2-L-11B, to the NORM position, AND	
	ENSURE Annunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B, is CLEAR.	
[3]	VERIFY/PLACE 2-HS-67-108A, LWR CNTMT CLR D OUTLET TCV, at Panel 0 M-27A, to the P-AUTO position.	·
[4]	VERIFY/PLACE 2-HS-67-108C, LOWER CNTMT CLR 2D-B ERCW OUTLET TCV, at Panel 2-L-10, to the P-AUTO position.	
[5]	RECORD as-found setting on 2-TIC-67-108, LOWER CNTMT VENT CLR 2D OUT TEMP CNTL, at Panel 2-L-26 (A15-U, EL 692)	
	As-Found setting	
[6]	PLACE 2-TIC-67-108, LOWER CNTMT VENT CLR 2D OUT TEMP CNTL, in AUTO at Panel 2-L-26 (A15-U, EL 692), AND	

ADJUST for maximum cooling.

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6.10	2-TCV-67-108-B, LOWER CNTMT VENT CLR 2D OUT TEMP CNTL Valve Logic Test (continued)							
	[7]		SURE/START Reactor Lower Compartmen 2-SOI-30.03, AND	t Cooler Fan 2D				
	,	VE	RIFY the following:	•				
		A.	2-TCV-67-108-B, LOWER CNTMT VENT TEMP CNTL, is OPEN to the modulate po (IC/723/AZ-349) (ACC CRIT).					
		В.	Red Light ON for 2-HS-67-108A at Panel	0-M-27A.				
•		C.	Green Light OFF for 2-HS-67-108A at Par	nel 0-M-27A.				
		D.	Red Light OFF for 2-HS-67-108C at Pane	l 2-L-10.				
		E.	Green Light OFF for 2-HS-67-108C at Pa	nel 2-L-10.				
	[8]		OP Reactor Lower Compartment Cooler Fa OI-30.03 AND	n 2D per				
	٠	VE	RIFY the following:					
		A.	2-TCV-67-108-B, LOWER CNTMT VENT TEMP CNTL, CLOSES (locally).	CLR 2D OUT				
		В.	Green Light ON for 2-HS-67-108A at Pan	el 0-M-27A.				
		C.	Red Light OFF for 2-HS-67-108A at Pane	el 0-M-27A.				
		D.	Red Light OFF for 2-HS-67-108C at Pane	el 2-L-10.				
		E.	Green Light OFF for 2-HS-67-108C at Pa	nel 2-L-10.				

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6.10			-108-B, LOWER CNTMT VENT CLR 2D gic Test (continued)	OUT TEMP CNTL
			NOTE	
Annı	unciator	148-0	C, 2-XA-55-6F, ACR PNL 2-L-11B, will al	arm in the following step.
	[9]		ACE 2-XS-67-108, LWR CNTMT CLR D-V, to the AUX position, AND	B ERCW OUTLET
		VE	RIFY the following:	
		A.	2-TCV-67-108-B, LOWER CNTMT VENTEMP CNTL, REMAINS CLOSED (local	
		ъ.	Green Light ON for 2-HS-67-108C at Pa	anel 2-L-10.
		C.	Red Light OFF for 2-HS-67-108C at Pa	nel 2-L-10.
		D.	Red Light OFF for 2-HS-67-108A at Pa	nel 0-M-27A.
		E.	Green Light OFF for 2-HS-67-108A at F	Panel 0-M-27A.
		F.	Annunciator 148-C, 2-XA-55-6F, ACR FALARMS.	PNL 2-L-11B,
		G.	Unit 2 Events Display Legend indicates 2-L-11B XS IN AUX, is in ALARM.	148-C, ACR PNL
	[10]		SURE/ADJUST 2-TIC-67-108, LWR CNOUT TEMP CNTL, for maximum cooling	

	WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 85 of 13	5
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6.10			108-B, LOWER CNTMT VENT CLR 2D OU lic Test (continued)	JT TEMP CNTL	
	[11]		SURE/START Reactor Lower Compartment 2-SOI-30.03, AND	t Cooler Fan 2D	
·		VE	RIFY the Following:		
	•	Α.	2-TCV-67-108-B, LOWER CNTMT VENT TEMP CNTL, OPENS to the MODULATE (ACC CRIT).		·)
		B.	Red Light ON for 2-HS-67-108C at Panel 2	2-L-10.	
	•	C.	Green Light OFF for 2-HS-67-108C at Par	nel 2-L-10.	
		D.	Red Light OFF for 2-HS-67-108A at Panel	0-M-27A.	
		E.	Green Light OFF for 2-HS-67-108A at Par	nel 0-M-27A.	:
, ·	[12]		ACE 2-HS-67-108C, LOWER CNTMT VENT CW OUTLET TCV, to the CLOSE position, A		
;		VE	RIFY 2-TCV-67-108-B CLOSES (locally) (A	CC CRIT)	
	[13]		ACE 2-HS-67-108C, LOWER CNTMT VENT CW OUTLET TCV, to the P-AUTO position,		
-			RIFY 2-TCV-67-108-B OPENS to the MODUally.)	JLATE position	· ,
	[14]		ACE 2-XS-67-108, LWR CNTMT CLR D-B EV, to the NORMAL position, AND	ERCW OUTLET	7
		VE	RIFY the following:		
. •		A.	Annunciator 148-C, 2-XA-55-6F, ACR PNI CLEARS.	_ 2-L-11B,	·
		B.	Unit 2 Events Display Legend indicates 14 2-L-11B XS IN AUX, is in NORMAL.	8-C, ACR PNL	

PLACE 2-HS-67-108A, LWR CNTMT CLR D OUTLET TCV, to the CLOSE position, **AND**

VERIFY 2-TCV-67-108-B CLOSES (locally) (ACC CRIT)

[15]

	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 86 of 135
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6.10		V-67-108-B, LOWER CNTMT VENT CLF e Logic Test (continued)	2D OUT TEMP CNTL
		NOTE	
The f	ollowing	step will simulate a loss of power.	
	[16]	PULL Fuse 2-FU-276-L26D/5 at Panel AUX BLDG)	2-L-26 (A15-U, EL 692
*			1s
			C
	[17]	VERIFY the following:	
,		A. 2-TCV-67-108-B, LOWER CNTMT TEMP CNTL, OPENS to modulate	
		B. Green Light OFF for 2-HS-67-108A	A at Panel 0-M-27A.
		C. Red Light ON for 2-HS-67-108A at	Panel 0-M-27A.
		NOTE	
		NOTE	
Annu	inciator	NOTE 148-C, 2-XA-55-6F, ACR PNL 2-L-11B, w	vill alarm in the following step.
Annu	inciator ——[18]		
Annu		148-C, 2-XA-55-6F, ACR PNL 2-L-11B, w PLACE 2-XS-67-108, LWR CNTMT CL	
Annu		PLACE 2-XS-67-108, LWR CNTMT CL TCV to the AUX position, AND	R D-B ERCW OUTLET
Annu		PLACE 2-XS-67-108, LWR CNTMT CL TCV to the AUX position, AND VERIFY the following:	R D-B ERCW OUTLET Panel 2-L-10.
Annu		PLACE 2-XS-67-108, LWR CNTMT CL TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-108C at	R D-B ERCW OUTLET Panel 2-L-10. C at Panel 2-L-10.
Annu	[18]	PLACE 2-XS-67-108, LWR CNTMT CLTCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-108C at B. Green Light OFF for 2-HS-67-108C PLACE 2-XS-67-108, LWR CNTMT CL	R D-B ERCW OUTLET Panel 2-L-10. C at Panel 2-L-10. R D-B ERCW OUTLET anel 2-L-26
Annu	[18]	PLACE 2-XS-67-108, LWR CNTMT CLTCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-108C at B. Green Light OFF for 2-HS-67-108C PLACE 2-XS-67-108, LWR CNTMT CLTCV, to the NORM position.	R D-B ERCW OUTLET Panel 2-L-10. C at Panel 2-L-10. R D-B ERCW OUTLET
Annu	[18]	PLACE 2-XS-67-108, LWR CNTMT CLTCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-108C at B. Green Light OFF for 2-HS-67-108C PLACE 2-XS-67-108, LWR CNTMT CLTCV, to the NORM position.	R D-B ERCW OUTLET Panel 2-L-10. C at Panel 2-L-10. R D-B ERCW OUTLET anel 2-L-26
Annu	[18]	PLACE 2-XS-67-108, LWR CNTMT CLTCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-108C at B. Green Light OFF for 2-HS-67-108C PLACE 2-XS-67-108, LWR CNTMT CLTCV, to the NORM position.	R D-B ERCW OUTLET Panel 2-L-10. C at Panel 2-L-10. R D-B ERCW OUTLET anel 2-L-26 1s

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 87 of 135						
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6.10	2-TCV-67-108-B, LOWER CNTMT VENT CLR 2D OUT TEMP CNTL Valve Logic Test (continued)								
-									
	·	NOTE							
The f	ollowing	steps will simulate a loss of control air.							
	[22]	CLOSE 2-ISV-32-3605, CONTROL AIR TO 2-TCV-67-108.	ISOLATION VALVE						
	[23]	OPEN bleed petcock at 2-PREG-67-108 PRESSURE REG FOR 2-TCV-67-108, AND							
		VERIFY 2-TCV-67-108-B, LOWER CNT OUT TEMP CNTL, is FULLY OPEN (Lo							
	[24]	CLOSE bleed petcock at 2-PREG-67-10 PRESSURE REG FOR 2-TCV-67-108-8							
	[25]	OPEN 2-ISV-32-3605, AND							
		VERIFY 2-TCV-67-108-B, LOWER CNT OUT TEMP CNTL, CLOSES to the MOI (locally).							
	[26]	PLACE 2-TIC-67-108, LOWER CNTMT TEMP CNTL, at Panel 2-L-26 (A15-U, E Found Setting recorded in Step 6.10[5]							
		As-Left setting							

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	6.11		CV-67-85-A, CRD VENT CLR 2A OUT TEMP CNTL Valve ic Test	
		[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
·		[2]	VERIFY/PLACE 2-XS-67-85, CRDM CLR A-A ERCW OUTLET TCV, at Panel 2-L-11A, to the NORM position, AND	
		,	ENSURE Annunciator 148-B, 2-XA-55-6F, ACR PNL 2-L-11A, is CLEAR.	
		[3]	VERIFY/PLACE 2-HS-67-85A, CRDM CLR A-A OUTLET TCV, at Panel 0-M-27A, to the P-AUTO position.	
		[4]	VERIFY/PLACE 2-HS-67-85C, CRDM CLR 2A-A ERCW OUTLET TCV, at Panel 2-L-10, to the P-AUTO position.	
		[5]	RECORD as-found setting on 2-TIC-67-85, CRD VENT CLR 2A OUT TEMP CNTL, at Panel 2-L-26 (A15-U, EL 692)	•
·			As-Found setting	
		[6]	PLACE 2-TIC-67-85, CRD VENT CLR 2A OUT TEMP CNTL, in AUTO at Panel 2-L-26 (A15-U, EL 692), AND	
			ADJUST for maximum cooling.	
		[7]	ENSURE/START CRD VENT Cooler Fan 2A per 2-SOI-30.03, AND	
		,	VERIFY the following:	. *
· ·			 A. 2-TCV-67-85-A, CRD VENT CLR 2A OUT TEMP CNTL, is OPEN to the MODULATE position (locally) (EL 716, AZ11) (ACC CRIT). 	·
•	·	•,	B. Green Light OFF for 2-HS-67-85A at Panel 0-M-27A.	
•			C. Red Light ON for 2-HS-67-85A at Panel 0-M-27A.	·
		•	D. Green Light OFF for 2-HS-67-85C at Panel 2-L-10.	·
			E. Red Light OFF for 2-HS-67-85C at Panel 2-L-10.	· · · · ·
				•
· .				

WBN Unit 2		ERCW	VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 89 of 135		
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6.11	6.11 2-TCV-67-85-A, CRD VENT CLR 2A OUT TEMP CNTL Valve Logic Test (continued)					
	[8]	ST	OP CRD VENT	Cooler Fan 2A per 2-SC	0I-30.03, AND	
		VE	RIFY the follow	ing:		•
·		Α.	2-TCV-67-85- CLOSES (loc	-A, CRD VENT CLR 2A (ally).	OUT TEMP CNTL,	
		В.	Red Light OF	F for 2-HS-67-85A at Pa	nel 0-M-27A.	· · ·
•		C.	Green Light C	ON for 2-HS-67-85A at Pa	anel 0-M-27A.	
		Ð.	Red Light OF	F for 2-HS-67-85C at Pa	nel 2-L-10.	
		E.	Green Light C	OFF for 2-HS-67-85C at I	Panel 2-L-10.	
		,		NOTE		
Annun	ciator	148-	B, 2-XA-55-6F,	ACR PNL 2-L-11A will A	LARM in the following st	ер
	[9]		ACE 2-XS-67-8 AUX position	85, CRDM CLR A-A ERC AND	W OUTLET TCV, to	
		VE	RIFY the follow	ving:		
		Α.		-A, CRD VENT CLR 2A (.OSED (locally).	OUT TEMP CNTL,	
	•	В.	Green Light (ON for 2-HS-67-85C at P	anel 2-L-10.	
		C.	Red Light OF	F for 2-HS-67-85C at Pa	nel 2-L-10.	
		D.	Red Light OF	F for 2-HS-67-85A at Pa	nel 0-M-27A.	
		E.	Green Light (OFF for 2-HS-67-85A at I	Panel 0-M-27A.	•
		F.	Annunciator 1	148-B, 2-XA-55-6F, ACR	PNL 2-L-11A,	
		G.		Display Legend indicate N AUX, is in ALARM.	s 148-B, ACR PNL	
	[10]			T 2-TIC-67-85, CRD VEN	NT CLR 2A OUT	

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	Data	Pacl	kage:	Page _	of	-		Date
6.11			-85-A, tinued		ENT CLR 2	A OUT TEMP	CNTL Valve Log	ic
	[11]	EN AN		START	CRD VEN	T Cooler Fan 2	A per 2-SOI-30.0	3,
. *	•	VE	RIFY th	ne follow	ving:	•		
		A.	OPE		e MODUL	ENT CLR 2A CATE position (Id	OUT TEMP CNTL ocally)	
		В.	Red I	ight ON	I for 2-HS-	67-85C at Pan	el 2-L-10.	
		C.	Gree	n Light (OFF for 2-l	HS-67-85C at F	anel 2-L-10.	
		D.	Red I	_ight OF	F for 2-HS	S-67-85A at Par	nel 0-M - 27A.	
		E.	Gree	n Light (OFF for 2-l	∃S-67-85A at F	anel 0-M-27A.	
	[12]				85C, CRDI E position	M CLR 2A-A EI , AND	RCW OUTLET	
		VE	RIFY 2	-TCV-67	7-85-A CL	OSED (locally).	(ACC CRIT)	
	[13]				85C, CRDI TO positio	M CLR 2A-A EI n, AND	RCW OUTLET	
			RIFY 2 cally).	-TCV-67	7-85-A OP	ENS to the MO	DULATE position)
	[14]				35, CRDM ition, AND		W OUTLET TCV,	to
		VE	RIFY th	ne follow	ving:			
		A.	Annu CLE		148-B, 2-X	A-55-6F, ACR	PNL 2-L-11A,	·
		В.				egend indicate in NORMAL.	s 148-B, ACR PN	L
	[15]			-HS-67-8 osition, A		M CLR A-A OU	TLET TCV, to the	3
		VE	DIEV 1	TCVS	7 95 1 01 4	OSES (locally)	(ACC CDIT)	

WBN Unit 2		F	2-PTI-067-03 Rev. 0000 Page 91 of 135
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6.11		/-67-85-A, CRD VENT CLR 2A OUT TEMP CNTI (continued)	_ Valve Logic
	•		
		NOTE	
The f	ollowing	step will simulate a loss of power	
	[16]	PULL Fuse 2-FU-276-L26A/3 at Panel 2-L-26 (AAUX BLDG)	15-U, EL 692
			1st
			CV
٠	[17]	VERIFY the following:	•
		A. 2-TCV-67-85-A, CRD VENT CLR 2A OUT TO OPENS to the MODULATE position (locally	
		B. Green Light OFF for 2-HS-67-85A at Panel	0-M-27A.
		C. Red Light ON for 2-HS-67-85A at Panel 0-M	1-27A
		NOTE	
Annu	nciator	148-B, 2-XA-55-6F, ACR PNL 2-L-11A will ALARN	I in the following step
	[18]	PLACE 2-XS-67-85, CRDM CLR A-A ERCW OL the AUX position, AND	JTLET TCV to
		VERIFY the following:	
		A. Green Light OFF for 2-HS-67-85C at Panel	2-L-10.
		B. Red Light ON for 2-HS-67-85C at Panel 2-L	10.
	[19]	PLACE 2-XS-67-85, CRDM CLR A-A ERCW OUT the NORM position.	JTLET TCV, to
٠.	[20]	REPLACE Fuse 2-FU-276-L26A/3 at Panel 2-L-	26
			CV

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 92 of 135
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6.11	2-TCV- Test (c	TL Valve Logic	
	[21] F	TTCV, to the	
	١	/ERIFY 2-TCV-67-85-A CLOSES (locally).	
•			
		NOTE	
The	following st	teps will simulate a loss of control air.	
		CLOSE 2-ISV-32-3610, CONTROL AIR ISOLA TO 2-TCV-67-85.	TION VALVE
_		OPEN bleed petcock at 2-PREG-67-85, CONT PRESSURE REG FOR 2-TCV-67-85, to VENT	
		/ERIFY 2-TCV-67-85-A, CRD VENT CLR 2A (CNTL, is FULLY OPEN (Locally).	OUT TEMP
		CLOSE bleed petcock at 2-PREG-67-85, CON PRESSURE REG FOR 2-TCV-67-85.	TROL AIR
		DPEN 2-ISV-32-3610, CONTROL AIR ISOLAT 2-TCV-67-85, AND	TION VALVE TO
		/ERIFY 2-TCV-67-85-A, CLOSES to the MOD locally).	ULATE position
		PLACE 2-TIC-67-85, CRD VENT CLR 2A OUT at Panel 2-L-26 (A15-U, EL 692) to the As-Fou ecorded in Step 6.11[5]	**
		As-Left setting	·

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	Data	Package: Page of	Date	
6.12		CV-67-93-A, CRD VENT CLR 2C OUT TEMP Cl ic Test	NTL Valve	
	[1].	VERIFY all applicable prerequisites listed in Speen completed.	ection 4.0 have	
	[2]	VERIFY/PLACE 2-XS-67-93, CRDM CLR C-A OUTLET TCV, at Panel 2-L-11A, to the NORM		
	•	ENSURE Annunciator 148-B, 2-XA-55-6F, AC is CLEAR.	R PNL 2-L-11A, 	
	[3]	VERIFY/PLACE 2-HS-67-93A, CRDM CLR CTCV, at Panel 0-M-27A, to the P-AUTO position		
	[4]	VERIFY/PLACE 2-HS-67-93C, CRDM CLR COUTLET TCV, at Panel 2-L-10, to the P-AUTO		
	[5] RECORD as-found setting on 2-TIC-67-93, CRD VENT CLR 2C OUT TEMP CNTL, at Panel 2-L-26A, (A15-U, EL 692)			

PLACE 2-TIC-67-93, CRD VENT CLR 2C OUT TEMP CNTL, in AUTO at Panel 2-L-26A, (A15-U, EL 692), AND

As-Found setting___

ADJUST for maximum cooling.

[6]

ERCW VALVE LOGIC TEST

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	Data	Pacl	kage: Page of	Date	
6.12			-93-A, CRD VENT CLR 2C OUT TEMP CN tinued)	TL Valve Logic	
	[7]	EN AN	SURE/START CRD VENT Cooler Fan 2C p D	oer 2-SOI-30.03,	
		VE	RIFY the following:		,
	·	A.	2-TCV-67-93-A, CRD VENT CLR 2C OUT is OPEN to the MODULATE position (local AZ193) (ACC CRIT).		
		В.	Green Light OFF for 2-HS-67-93A at Pan	el 0 - M-27A.	
		C.	Red Light ON for 2-HS-67-93A at Panel 0	-M-27A.	
٠		D.	Green Light OFF for 2-HS-67-93C at Pan	el 2-L-10.	
		E.	Red Light OFF for 2-HS-67-93C at Panel	2-L-10.	
	[8]	ST	OP CRD VENT Cooler Fan 2C per 2-SOI-3	0.03 AND	
		VE	RIFY the following:		
		A.	2-TCV-67-93-A, CRD VENT CLR 2C OUTCLOSES (locally).	T TEMP CNTL,	
		B.	Green Light ON for 2-HS-67-93A at Pane	I 0-M-27A.	
	•	C.	Red Light OFF for 2-HS-67-93A at Panel	0-M-27A.	
		D.	Green Light OFF for 2-HS-67-93C at Pan	el 2-L-10.	
		_	Pod Light OFF for 2 HS 67 02C at Danel	21:40	

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6.12	2-TCV-67-93-A, CRD VENT CLR 2C OUT TEMP CNTL Valve Log Test (continued)			
			NOTE	
Annu	nciator	148-E	3, 2-XA-55-6F, ACR PNL 2-L-11A will AL	ARM in the following step
	[9]		ACE 2-XS-67-93, CONTROL ROD DRIVING THE AUX position AND	E, VENT CLR 2C
VERIFY the following:		RIFY the following:		
		A.	2-TCV-67-93-A, CRD VENT CLR 2C OREMAINS CLOSED (locally).	UT TEMP CNTL,
		В.	Green Light ON for 2-HS-67-93C at Par	nel 2-L-10.
٠		C.	Red Light OFF for 2-HS-67-93C at Pan	el 2-L-10.
		D.	Green Light OFF for 2-HS-67-93A at Pa	anel 0-M-27A
		E.	Red Light OFF for 2-HS-67-93A at Pane	el 0-M-27A
		F.	Annunciator 148-B, 2-XA-55-6F, ACR FALARMS.	PNL 2-L-11A,
		G.	Unit 2 Events Display Legend indicates 2-L-11A XS IN AUX, is in ALARM.	148-B, ACR PNL
	[10]		SURE/ADJUST 2-TIC-67-93 CRD VENT	CLR 2C OUT

WBN Unit 2			ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 96 of 135	
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6.12			-93-A, CRD VENT CLR 2C OUT TEMP CN tinued)	TL Valve Logic	
	[11]	EN AN	SURE/START CRD VENT Cooler Fan 2C բ D	per 2-SOI-30.03,	
	,	VE	RIFY the Following:		
		A.	2-TCV-67-93-A, CRD VENT CLR 2C OUT OPENS to the MODULATE position (local (ACC CRIT).		<u>.</u>
		В.	Green Light OFF for 2-HS-67-93C at Pane	el 2-L-10.	
		C.	Red Light ON for 2-HS-67-93C at Panel 2	-L-10.	
		Đ.	Green Light OFF for 2-HS-67-93A at Pane	el 0-M-27A.	.
		E.	Red Light OFF for 2-HS-67-93A at Panel	D-M-27A.	
	[12]		ACE 2-HS-67-93C, CRDM CLR C-A ERCW he CLOSE position AND	OUTLET TCV,	·
	•	VE	RIFY 2-TCV-67-93-A CLOSED (locally). (A	CC CRIT)	
	[13]		ACE 2-HS-67-93C, CRDM CLR C-A ERCW he P-AUTO position, AND	OUTLET TCV,	
	·		RIFY 2-TCV-67-93-A OPENS to the MODU cally).	LATE position	
•	[14]		ACE 2-XS-67-93, CRDM CLR C-A ERCW (NORMAL position AND	OUTLET TCV, to	
٠.		VE	RIFY the following:		
		Α.	Annunciator 148-B, 2-XA-55-6F, ACR PNICLEARS	L 2-L-11A,	<u> </u>
		В.	Unit 2 Events Display Legend indicates 14 2-L-11A XS IN AUX, is in NORMAL	18-B, ACR PNL	
	[15]		ACE 2-HS-67-93A, CRDM CLR C-A OUTLE OSE position AND	ET TCV, to the	
		VF	RIFY 2-TCV-67-93-A CLOSES (locally) (A	CC CRIT)	

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Data	Pacl	kage: Page of	Da	ite
		-93-A, CRD VENT CLR 2C OUT TEMP (tinued)	CNTL Valve Logic	
		NOTE		
The followin	g step	will simulate a loss of power.		
[16]		LL Fuse 2-FU-276-L26A/7 at Panel 2-L-2 X BLDG)	6 (A15-U, EL 692	
		•		1st
				CV
[17]	VE	RIFY the following:		
	A.	2-TCV-67-93-A, CRD VENT CLR 2C O OPENS to the MODULATE position (loc		
	В.	Green Light OFF for 2-HS-67-93A at Pa	anel 0-M-27A.	
	C .	Red Light ON for 2-HS-67-93A at Pane	I 0-M-27A.	
		NOTE		
Annunciator	148-1	B, 2-XA-55-6F, ACR PNL 2-L-11A will AL	ARM in the following	step
[18]		ACE 2-XS-67-93, CRDM CLR C-A ERCV AUX position AND	V OUTLET TCV to	
·	VE	RIFY the following:		
	A.	Red Light ON for 2-HS-67-93C at Pane	l 2-L-10.	
	₽ B .	Green Light OFF for 2-HS-67-93C at Pa	anel 2-L-10.	
[19]		ACE 2-XS-67-93, CRDM CLR C-A ERCV NORM position.	V OUTLET TCV, to	
[20]	RE	PLACE Fuse 2-FU-276-L26A/7 at Panel	2-L-26	
				1st
				CV

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6.12		V-67-93-A, CRD VENT CLR 2C OUT TEMP CNT (continued)	ΓL Valve Logic
	[21]	PLACE 2-HS-67-93A, CRDM CLR C-A OUTLE CLOSE position AND	TTCV, to the
		VERIFY 2-TCV-67-93-A CLOSES (locally).	·
		NOTE	
The fo	ollowing	steps will simulate a loss of control air.	
	[22]	CLOSE 2-ISV-32-3560 CONTROL AIR ISOLATO 2-TCV-67-93.	TION VALVE
	[23]	OPEN bleed petcock at 2-PREG-67-93, CONTIPRESSURE REG FOR 2-TCV-067-0093, to VEAND	
		VERIFY 2-TCV-67-93-A, CRD VENT CLR 2C CCNTL, is FULLY OPEN (Locally).	OUT TEMP
•	[24]	CLOSE bleed petcock at 2-PREG-67-93, CON PRESSURE REG FOR 2-TCV-067-0093.	TROL AIR
	[25]	OPEN 2-ISV-32-3560 AND	
		VERIFY 2-TCV-67-93-A, CRD VENT CLR 1C CCNTL CLOSES to the MODULATE position (lo	
	[26]	PLACE 2-TIC-67-93, CRD VENT CLR 2C OUT at Panel 2-L-26A, (A15-U, EL 692) to the As-Forecorded in Step 6.12[5].	
		As-Left setting	

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	6.13		CV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL Valve ic Test	
		[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
		[2]	VERIFY/PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, at Panel 2-L-11B, to the NORM position, AND)
			ENSURE Annunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-116 is CLEAR.	В,
		[3]	VERIFY/PLACE 2-HS-67-101A, CRDM CLR B-B OUTLET TCV, at Panel 0-M-27A, to the P-AUTO position.	<u>-</u>
		[4]	VERIFY/PLACE 2-HS-67-101C, CRDM CLR B-B ERCW OUTLET TCV, at Panel 2-L-10, to the P-AUTO position.	
		[5]	RECORD as-found setting on 2-TIC-67-101, CRD VENT CLI 2B OUT TEMP CNTL, at Panel 2-L-26 (A15-U, EL 692)	R
			As-Found setting	
	:	[6]	PLACE 2-TIC-67-101, CRD VENT CLR 2B OUT TEMP CNT in AUTO at Panel 2-L-26 (A15-U, EL 692), AND	τ,
			ADJUST for maximum cooling.	
		[7]	ENSURE/START CRD VENT Cooler Fan 2B per 2-SOI-30.0	13 ,
		ě	VERIFY the following:	
· · · · · · · · · · · · · · · · · · ·			 A. 2-TCV-67-101-B CRD VENT CLR 2B OUT TEMP CNTI is OPEN to the MODULATE position (locally) (EL 716, AZ168) (ACC CRIT). 	
			B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A.	
			C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A.	
		. <i>'</i>	D. Green Light OFF for 2-HS-67-101C at Panel 2-L-10.	
			E. Red Light OFF for 2-HS-67-101C at Panel 2-L-10.	·

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6.13			-101-B, CRD VENT CLR 2B OUT TEMP C st (continued)	NTL Valve
	[8]	ST	OP CRD VENT Cooler Fan 2B per 2-SOI-3	0.03 AND
••		VE	RIFY the following:	
		A.	2-TCV-67-101-B, CRD VENT CLR 2B OL CLOSES (locally).	JT TEMP CNTL,
		B.	Green Light ON for 2-HS-67-101A at Pan	el 0-M-27A.
		C.	Red Light OFF for 2-HS-67-101A at Pane	el 0-M-27A.
		D.	Green Light OFF for 2-HS-67-101C at Pa	nel 2-L-10.
		E.	Red Light OFF for 2-HS-67-101C at Pane	el 2-L-10.
			NOTE	
Annui	nciator	148-0	C, 2-XA-55-6F, ACR PNL 2-L-11B will ALAI	RM in the following step
	[9]		ACE 2-XS-67-101, CRDM CLR B-B ERCW he AUX position AND	OUTLET TCV,
		VE	RIFY the following:	
		A.	2-TCV-67-101-B, CRD VENT CLR 2B OUREMAINS CLOSED (locally).	JT TEMP CNTL,
,		В.	Green Light ON for 2-HS-67-101C at Pan	el 2-L-10.
		C.	Red Light OFF for 2-HS-67-101C at Pane	el 2-L-10.
•		D.	Red Light OFF for 2-HS-67-101A at Pane	el 0-M-27A.
		E.	Green Light OFF for 2-HS-67-101A at Pa	nel 0-M-27A.
		F.	Annunciator 148-C, 2-XA-55-6F, ACR PN ALARMS.	IL 2-L-11B,
		G.	Unit 2 Events Display Legend indicates 1 2-L-11B XS IN AUX, is in ALARM.	48-C, ACR PNL
	[10]		SURE/ADJUST 2-TIC-67-101, CRD VENT MP CNTL, for maximum cooling.	CLR 2B OUT

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6.13			-101-B, CRD VENT CLR 2B OUT TEMP CN st (continued)	NTL Valve
	[11]	EN AN	SURE/START CRD VENT Cooler Fan 2C ρ D	er 2-SOI-30.03,
		VE	RIFY the following:	
		A.	2-TCV-67-101-B, CRD VENT CLR 2B OU OPENS to the MODULATE position (local (ACC CRIT).	
		В.	Red Light ON for 2-HS-67-101C at Panel 2	2-L-10.
		C.	Green Light OFF for 2-HS-67-101C at Par	nel 2-L-10.
		D.	Red Light OFF for 2-HS-67-101A at Panel	0-M-27A.
		E.	Green Light OFF for 2-HS-67-101A at Par	nel 0-M-27A.
	[12]		ACE 2-HS-67-101C, CRDM CLR B-B ERCV V, to the CLOSE position, AND	V OUTLET
		VE	RIFY 2-TCV-67-101-B CLOSES (locally). (A	ACC CRIT)
	[13]		ACE 2-HS-67-101C, CRDM CLR B-B ERCV V, to the P-AUTO position, AND	V OUTLET
	•		RIFY 2-TCV-67-101-B OPENS to the MODUcally).	JLATE position
	[14]		ACE 2-XS-67-101, CRDM CLR B-B ERCW the NORMAL position, AND	OUTLET TCV,
		VE	RIFY the following:	•
	e.	Α.	Annunciator 148-C, 2-XA-55-6F, ACR PNICLEARS.	L 2-L-11B,
		B.	Unit 2 Events Display Legend indicates 14 2-L-11B XS IN AUX, is in NORMAL.	18-C, ACR PNL
	[15]		ACE 2-HS-67-101A, CRDM CLR B-B OUTL OSE position, AND	ET TCV, to the
		VF	RIFY 2-TCV-67-101-B CLOSES (locally)	ACC CRIT)

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NOTE the following step will simulate a loss of power. [16] PULL Fuse 2-FU-276-L26D/3 at Panel 2-L-26 (A15-U, EL 692 AUX BLDG) [17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	Data I	Package: Page of	Date	
The following step will simulate a loss of power. [16] PULL Fuse 2-FU-276-L26D/3 at Panel 2-L-26 (A15-U, EL 692 AUX BLDG) [17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.			P CNTL Valve	
[16] PULL Fuse 2-FU-276-L26D/3 at Panel 2-L-26 (A15-U, EL 692 AUX BLDG) [17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.		NOTE		•
AUX BLDG) 1st CV [17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	The following	step will simulate a loss of power.		
[17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	[16]		26 (A15-U, EL 692	
[17] VERIFY the following: A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.		AUX BLDG)	<u> </u>	İst
A. 2-TCV-67-101-B, CRD VENT CLR 2B OUT TEMP CNTL, OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.				CV
OPENS to the MODULATE position (locally). B. Green Light OFF for 2-HS-67-101A at Panel 0-M-27A. C. Red Light ON for 2-HS-67-101A at Panel 0-M-27A. NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	[17]	VERIFY the following:		
NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.				
NOTE Innunciator 148-C, 2-XA-55-6F, ACR PNL 2-L-11B will ALARM in the following step [18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.		B. Green Light OFF for 2-HS-67-101A a	t Panel 0-M-27A.	
[18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	÷	C. Red Light ON for 2-HS-67-101A at Pa	anel 0-M-27A	
[18] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	·	NOTE		
to the AUX position, AND VERIFY the following: A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	Annunciator 1	148-C, 2-XA-55-6F, ACR PNL 2-L-11B will A	ALARM in the following step	
A. Red Light ON for 2-HS-67-101C at Panel 2-L-10. B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26.	[18]	· · · · · · · · · · · · · · · · · · ·	RCW OUTLET TCV	
B. Green Light OFF for 2-HS-67-101C at Panel 2-L-10. [19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26. [18] 1st		VERIFY the following:		
[19] PLACE 2-XS-67-101, CRDM CLR B-B ERCW OUTLET TCV, to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26. 1st		A. Red Light ON for 2-HS-67-101C at Pa	anel 2-L-10.	
to the NORM position. [20] REPLACE Fuse 2-FU-276-L26D/3 at Panel 2-L-26. 1st		B. Green Light OFF for 2-HS-67-101C a	t Panel 2-L-10.	
1st	[19]		RCW OUTLET TCV, —	
	[20]	REPLACE Fuse 2-FU-276-L26D/3 at Pan		1st
			·	
				υv

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6.13		7-67-101-B, CRD VENT CLR Test (continued)	2B OUT TEMP CNTL Valve
	[21]	PLACE 2-HS-67-101A, CRECLOSE position, AND	OM CLR B-B OUTLET TCV, to the
		VERIFY 2-TCV-67-101-B CI	OSES (locally).
٠,			
		,	NOTE
The f	ollowing	steps will simulate a loss of c	ontrol air.
	[22]	CLOSE 2-ISV-32-3565 CON TO 2-TCV-67-101.	ITROL AIR ISOLATION VALVE
	[23]		REG-67-101, CONTROL AIR CV-67-101, to VENT pressure,
		VERIFY 2-TCV-67-101-B, CCNTL, is FULLY OPEN (Loc	RD VENT CLR 2B OUT TEMP
	[24]	CLOSE bleed petcock at 2-F PRESSURE REG FOR 2-TO	PREG-67-101, CONTROL AIR CV-067-0101.
	[25]	OPEN 2-ISV-32-3565, AND	
		VERIFY 2-TCV-67-101-B, C	RD VENT CLR 2B OUT TEMP ULATE position (locally).
	[26]		VENT CLR 2B OUT TEMP CNTL, 692) to the As-Found Setting
		As-Left setting	

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	CV-67 gic Te	7-109-B, CRD VENT CLR 2D OUT TEMP C st	NTL Valve
[1]		RIFY all applicable prerequisites listed in Se en completed.	ction 4.0 have
[2]		RIFY/PLACE 2-XS-67-109, CRDM CLR D-E TLET TCV, at Panel 2-L-11B, to the NORM	
		SURE Annunciator 148-C, 2-XA-55-6F, ACF CLEAR.	R PNL 2-L-11B,
[3]		RIFY/PLACE 2-HS-67-109A, CRDM CLR 2 V, at Panel 0-M-27A, to the P-AUTO position	
. [4]		RIFY/PLACE 2-HS-67-109C, CRDM CLR 2 TLET TCV, at Panel 2-L-10, to the P-AUTO	
[5]		CORD as-found setting on 2-TIC-67-109, COUT TEMP CNTL, at Panel 2-L-26D (A15-U	
	As-	-Found setting	
[6]		ACE 2-TIC-67-109, CRD VENT CLR 2D OL AUTO at Panel 2-L-26D (A15-U, EL 692), A I	· · · · · · · · · · · · · · · · · · ·

ADJUST for maximum cooling.

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6.14	2-TCV-67-109-B, CRD VENT CLR 2D OUT TEMP CNTL Valve Logic Test (continued)							
	[7]	ENSURE/START CRD VENT Cooler Fan 2D per 2-SOI-30.03, AND						
		VE	RIFY the following:					
		Α.	2-TCV-67-109-B CRD VENT CLR 2D OU is OPEN to the MODULATE position (EL (ACC CRIT).	•				
		В.	Green Light OFF for 2-HS-67-109A at Pa	nel 0-M-27A.				
		C.	Red Light ON for 2-HS-67-109A at Panel	0-M-27A				
		D.	Green Light OFF for 2-HS-67-109Cat Par	nel 2-L-10.				
		E.	Red Light OFF for 2-HS-67-109C at Pane	l 2-L-10.				
	[8]	ST	OP CRD VENT Cooler Fan 2D per 2-SOI-3	0.03 AND				
		VE	RIFY the following:	·				
	•	A.	2-TCV-67-109-B, CRD VENT CLR 2D OL CLOSES (locally).	JT TEMP CNTL,				
		B.	Green Light ON for 2-HS-67-109A at Pan	el 0-M-27A.				
		C.	Red Light OFF for 2-HS-67-109A at Pane	I 0-M-27A.				
,		D.	Green Light OFF for 2-HS-67-109C at Pa	nel 2-L-10.				
		E.	Red Light OFF for 2-HS-67-109C at Pane	l 2-L-10.				

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6.14	Data Package: Page of .14 2-TCV-67-109-B, CRD VENT CLR 2D OUT TEMP CNTL Valve Logic Test (continued)							
			NOTE	· · · · · · · · · · · · · · · · · · ·				
Annu	nciator '	148-C	C, 2-XA-55-6F, ACR PNL 2-L-11B will AL	ARM in the following step				
	[9]	PLACE 2-XS-67-109, CRDM CLR D-B ERCW OUTLET TCV, to the AUX position AND						
		VE	RIFY the following:					
		Α.	2-TCV-67-109-B, CRD VENT CLR 2D CREMAINS CLOSED (locally).	OUT TEMP CNTL,				
		B.	Green Light ON for 2-HS-67-109C at Pa	nel 2-L-10.				
	i	C.	Red Light OFF for 2-HS-67-109C at Par	nel 2-L-10.				
	·.	D.	Red Light OFF for 2-HS-67-109A at Par	nel 0-M-27A.				
		E.	Green Light OFF for 2-HS-67-109A at F	anel 0-M-27A.				
		F.	Annunciator 148-C, 2-XA-55-6F, ACR FALARMS.	NL 2-L-11B, 				
		G.	Unit 2 Events Display Legend indicates 2-L-11B XS IN AUX, is in ALARM.	148-C, ACR PNL				
	[10] ENSURE/ADJUST 2-TIC-67-109, CRD VENT CLR 2D OUT TEMP CNTL, for maximum cooling.							
•	[11]	11] ENSURE/START CRD VENT Cooler Fan 2D per 2-SOI-30.03, AND						
	VERIFY the Following:							
		A.	2-TCV-67-109-B, CRD VENT CLR 2D OPENS to the MODULATE position (loc (ACC CRIT).					
		B.	Red Light ON for 2-HS-67-109C at Pan	el 2-L-10.				
		C.	Green Light OFF for 2-HS-67-109C at F	Panel 2-L-10.				
		D.	Red Light OFF for 2-HS-67-109A at Par	nel 0-M-27A.				

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6.14	2-TCV-67-109-B, CRD VENT CLR 2D OUT TEMP CNTL Valve Logic Test (continued)						
		E.	Green Light OFF for2-HS-67-109A at Pan	el 0-M-27A.			
	[12]		ACE 2-HS-67-109C, CRDM CLR 2D-B ERC V, to the CLOSE position AND	CW OUTLET			
		VE	RIFY 2-TCV-67-109-B CLOSES (locally). (a	ACC CRIT)			
	CW OUTLET						
			RIFY 2-TCV-67-109-B OPENS to the MODIcally).	ULATE position			
	[14]		ACE 2-XS-67-109, CRDM CLR D-B ERCW he NORMAL position AND	OUTLET TCV,			
•		VE	RIFY the following:				
		A.	Annunciator 148-C, 2-XA-55-6F, ACR PN CLEARS.	L 2-L-11B, 			
		В.	Unit 2 Events Display Legend indicates 14 2-L-11B XS IN AUX, is in NORMAL.	18-C, ACR PNL			
	[15]		ACE 2-HS-67-109A, CRDM CLR 2D-B OUT CLOSE position AND	TLET TCV, to			
		VE	RIFY 2-TCV-67-109-B CLOSES (locally) (A	CC CRIT).			
		<u> </u>	NOTE				
The f	following	step	o will simulate a loss of power.				
. •	[16]		LL Fuse 2-FU-276-L26D/7 at Panel 2-L-26 X BLDG)	(A15-U, EL 692,			
				.1st			
				CV			

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5.14			-109-B, CRD \ t (continued)		D OUT TEMP C	NTL Valve	v
	[17]	VEF	RIFY the follow	wing:			
•		Α.			ENT CLR 2D OU TE position (local		
		В.	Green Light	OFF for 2-H	S-67-109A at Par	nel 0-M-27A.	
		C.	Red Light O	N for 2-HS-6	7-109A at Panel	0-M-27A.	
				N	OTE		
Annur	nciator 1	148-0), 2-XA-55-6F	, ACR PNL 2	2-L-11B will ALAF	RM in the following	step
	[18]		ACE 2-XS-67- he AUX positi		CLR D-B ERCW	OUTLET TCV	
		VEI	RIFY the follow	wing:	•		
		A.	Red Light O	N for 2-HS-6	7-109C at Panel	2-L-10.	
		В.	Green Light	OFF for 2-H	S-67 - 109C at Pai	nel 2-L-10.	
	[19]		ACE 2-XS-67- he NORM pos		CLR D-B ERCW	OUTLET TCV,	
	[20]	RE	PLACE Fuse	2-FU-276-L2	6D/7 at Panel 2-	L - 26.	
,					· ,	·	1st
							CV
	[21]		ACE 2-HS-67 CLOSE posit		M CLR 2D-B OUT	TLET TCV, to	e e
		VE	RIFY 2-TCV-6	67-109-B CL	OSES (locally).		-
					,		
,				N	OTE		
The fo	ollowing	step	s will simulate	e a loss of co	ntrol air.		
	[22]		OSE 2-ISV-32 2-TCV-67-10		TROL AIR ISOLA	TION VALVE	

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6.14		V-67-109-B, CRD VENT CLR 2D OL c Test (continued)	IT TEMP CNTL Valve
	[23]	OPEN bleed petcock at 2-PREG-6 PRESSURE REG FOR 2-TCV-067 AND	
		VERIFY 2-TCV-67-109-B, CRD VECNTL, is FULLY OPEN (Locally).	NT CLR 2D OUT TEMP
	[24]	CLOSE bleed petcock at 2-PREG-PRESSURE REG FOR 2-TCV-067	
	[25]	OPEN 2-ISV-32-3606 AND	
•		VERIFY 2-TCV-67-109-B, CRD VE	
	[26]	PLACE 2-TIC-67-109, CRD VENT at Panel 2-L-26D (A15-U, EL 692) recorded in Step 6.14[5].	
		As-Left setting	·

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j		cV-67-86-A, RCP 1 MOTOR CLR ERCW SUP CNTL Valve ic Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	VERIFY Reactor Coolant Pump 1 is SHUTDOWN.	
÷	[3]	VERIFY/PLACE 2-HS-67-86, RCP 1 MTR CLR SUP TCV, located at Panel 0-M-27A, in the P-AUTO position AND	
		VERIFY the following:	
		A. 2-TCV-67-86-A, RCP 1 MOTOR CLR ERCW SUP CNTL, is CLOSED (IC, EL 727, AZ12).	
		B. Green Light ON for 2-HS-67-86 at Panel 0-M-27A.	· .
	. ,	C. Red Light OFF for 2-HS-67-86 at Panel 0-M-27A.	-
	[4]	PLACE 2-HS-67-86, RCP 1 MTR CLR SUP TCV, in the OPEN position AND	
		VERIFY the following:	٠.
		A. 2-TCV-67-86-A, RCP 1 MOTOR CLR ERCW SUP CNTL, is OPEN (locally).	
		B. Green Light OFF for 2-HS-67-86 at Panel 0-M-27A.	<u>;</u> .
		C. Red Light ON for 2-HS-67-86 at Panel 0-M-27A.	
	[5]	PLACE 2-HS-67-86 RCP 1 MTR CLR SUP TCV, in the CLOSE position AND	
		VERIFY 2-TCV-67-86-A CLOSES (locally).	<u>.</u>
	[6]	PLACE 2-HS-67-86, RCP 1 MTR CLR SUP TCV, in the P-AUTO position AND	•
		VERIFY 2-TCV-67-86-A Remains CLOSED.	

WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 111 of 135		
Data	Package: Page of	Date		
	/-67-86-A, RCP 1 MOTOR CLR ERCW SUP (: Test (continued)	CNTL Valve		
	CAUTION			
Leads to be	lifted in the following steps are energized w	vith 120VAC.		
· · · · · · · · · · · · · · · · · · ·	NOTE			
The following	step will simulate RCP #1 START			
[7]	LIFT Wire CS11 at TB 430-2 in Panel 2-R-74	1.		
·			1st	
.·			CV	
[8]	VERIFY 2-TCV-67-86-A, RCP 1 MOTOR CL CNTL, OPENS. (ACC CRIT)	R ERCW SUP		
[9]	PLACE 2-HS-67-86 RCP 1 MTR CLR SUP CLOSE position AND	TCV, in the		
	VERIFY 2-TCV-67-86-A CLOSES (ACC CR	IT).		
[10]	PLACE 2-HS-67-86, RCP 1 MTR CLR SUP P-AUTO position AND	TCV, in the		
	VERIFY 2-TCV-67-86-A OPENS.			
[11]	LAND Wire CS11 at TB 430-2 in Panel 2-R-	74 AND		
	VERIFY 2-TCV-67-86-A, RCP 1 MOTOR CLCNTL, CLOSES.	R ERCW SUP	·	
			1st	
		•	CV	

WBN Unit 2	ERCW VALVE LOGIC TES	T 2-PTI-067-03 Rev. 0000 Page 112 of 135
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	V-67-86-A, RCP 1 MOTOR CLR ERCW c Test (continued)	SUP CNTL Valve
The following	NOTE step will simulate loss of power.	
[12]	PULL 2 Fuses labeled 0-FU-236-3/A40 SUPPLY BTRY BD III, Panel 4 (A11-Q	· · · · · · · · · · · · · · · · · · ·
* .		1st
		CV
[13]	VERIFY 2-TCV-67-86-A OPENS (local	ly). ','
[14]	REPLACE 2 Fuses labeled 0-FU-236-3 DC SUPPLY BTRY BD III, Panel 4 (A1	· ·
	BLDG)	1st
		CV
[15]	VERIFY 2-TCV-67-86-A CLOSES.	
	NOTE	
The following	steps will simulate loss of control air.	
[16]	CLOSE 2-ISV-32-3611, CONTROL AIR 2-TCV-67-86.	R ISOLATION VALVE to
[17]	OPEN bleed petcock at 2-PREG-67-86 PRESSURE REG for 2-TCV-67-86, AN	
	VERIFY 2-TCV-67-86-A is FULLY OPE	EN (Locally).

	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 113 of 135			
	Data	Package: Page of	Date			
6.15	2-TCV-67-86-A, RCP 1 MOTOR CLR ERCW SUP CNTL Valve Logic Test (continued)					
	[18]	CLOSE bleed petcock at 2-PREG-67-86, CPRESSURE REG, for 2-TCV-67-86.	CONTROL AIR			
•	[19]	OPEN 2-ISV-32-3611, CONTROL AIR ISO 2-TCV-67-86, AND	LATION VALVE TO			
		VERIFY 2-TCV-67-86-A CLOSES to the M (locally).	ODULATE position			

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Unit	2

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	Data	Package: Page of Dar	e
6.16		CV-67-94-A, RCP 3 MOTOR CLR ERCW SUP CNTL Valve ic Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	VERIFY Reactor Coolant Pump 3 is SHUTDOWN.	•
	[3]	VERIFY/PLACE 2-HS-67-94, RCP 3 MTR CLR SUP TCV, located at Panel 0-M-27A, in the P-AUTO position AND	
٠.	•	VERIFY the following:	
		A. 2-TCV-67-94-A, RCP 3 MOTOR CLR ERCW SUP CNTL, is CLOSED (IC, EL 727, AZ190).	
		B. Green Light ON for 2-HS-67-94 at Panel 0-M-27A.	•
		C. Red Light OFF for 2-HS-67-94 at Panel 0-M-27A.	
	[4]	PLACE 2-HS-67-94, RCP 3 MTR CLR SUP TCV, in the OPEN position AND	
		VERIFY the following:	
		A. 2-TCV-67-94-A, RCP 3 MOTOR CLR ERCW SUP CNTL, is OPEN (locally).	· · · · · · · · · · · · · · · · · · ·
		B. Green Light OFF for 2-HS-67-94 at Panel 0-M-27A.	
		C. Red Light ON for 2-HS-67-94 at Panel 0-M-27A.	
	[5]	PLACE 2-HS-67-94, RCP 3 MTR CLR SUP TCV, in the CLOSE position AND	
		VERIFY 2-TCV-67-94-A CLOSES (locally).	
	[6]	PLACE 2-HS-67-94, RCP 3 MTR CLR SUP TCV, in the P-AUTO position AND	
	•	VERIFY 2-TCV-67-94-A remains CLOSED.	

WBN Unit 2		ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 115 of 135
	Data	Package: Page of	Date
6.16		/-67-94-A, RCP 3 MOTOR CLR ERCW SUP Test (continued)	CNTL Valve
		CAUTION	
Lead	s to be	lifted in the following steps are energized	with 120VAC.
		NOTE	
The fo	ollowing	step will simulate RCP #3 START	
	[7]	LIFT Wire CS31 at TB 430-8 in Panel 2-R-7	4.
	• •		1st
			CV
	[8]	VERIFY 2-TCV-67-94-A, RCP 3 MOTOR CL CNTL, OPENS. (ACC CRIT)	LR ERCW SUP
	[9]	PLACE 2-HS-67-94, RCP 3 MTR CLR SUP CLOSE position AND	TCV, in the
	•	VERIFY 2-TCV-67-94-A CLOSES (ACC CF	RIT)
~ .	[10]	PLACE 2-HS-67-94, RCP 3 MTR CLR SUP P-AUTO position AND	TCV, in the
		VERIFY 2-TCV-67-94-A OPENS.	
	[11]	LAND Wire CS31 at TB 430-8 in Panel 2-R	-74 AND
		VERIFY 2-TCV-67-94-A, RCP 3 MOTOR C CNTL, CLOSES.	LR ERCW SUP
,	•		1st
			CV

WBN Unit 2	ERCW VALVE LO	OGIC TEST	2-PTI-067-03 Rev. 0000 Page 116 of 135	
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	/-67-94-A, RCP 3 MOTOR CI Test (continued)	_R ERCW SUP	CNTL Valve	
·		NOTE		
The following	step will simulate loss of pow	er.		
[12]	PULL 2 Fuses labeled 0-FU SUPPLY BTRY BD III, Pane			
			,	1st
r				CV
[13]	VERIFY 2-TCV-67-94-A OP	ENS (locally).		
[]		,		
[14]	REPLACE 2 Fuses labeled of DC SUPPLY BTRY BD III, P			
	BLDG)			1st
				CV
[15]	VERIFY 2-TCV-67-94-A CLO	OSES.		
~				
		NOTE		
The following	step will simulate loss of con	trol air.		
[16]	CLOSE 2-ISV-32-3559, CO to 2-TCV-67-94.	NTROL AIR ISC	DLATION VALVE,	 ,
[17]	OPEN bleed petcock at 2-Pi PRESSURE REG for 2-TCV		NTROL AIR	•.
	VERIFY 2-TCV-67-94-A is F	ULLY OPEN (L	.ocally).	

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	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 117 of 135	
	Data	Package: Page of	Date	
6.16	2-TC Logic	P CNTL Valve		
	[18]	CLOSE bleed petcock at 2-PREG-67-94, CPRESSURE REG for 2-TCV-67-94.	ONTROL AIR	
	[19] OPEN 2-ISV-32-3559, CONTROL AIR ISOLATION VALVE TO 2-TCV-67-94, AND			
		VERIFY 2-TCV-67-94-A CLOSES to the Mo (locally).	ODULATE position	

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Data Package: Page ____ of Date 6.17 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCW SUP CNTL Valve **Logic Test** VERIFY all applicable prerequisites listed in Section 4.0 have [1] been completed. [2] **VERIFY** Reactor Coolant Pump 2 is SHUTDOWN. [3] VERIFY/PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV. located at Panel 0-M-27A, in the P-AUTO position AND **VERIFY** the following: 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCW SUP CNTL, is CLOSED (IC, EL 725, AZ167). Green Light ON for 2-HS-67-102 at Panel 0-M-27A. Red Light OFF for 2-HS-67-102 at Panel 0-M-27A. PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in the [4] OPEN position AND **VERIFY** the following: 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCW SUP CNTL, is OPEN (locally). B. Green Light OFF for 2-HS-67-102 at Panel 0-M-27A. Red Light ON for 2-HS-67-102 at Panel 0-M-27A. [5] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in the **CLOSE** position **AND** VERIFY 2-TCV-67-102-B CLOSES (locally). [6] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in the P-AUTO position AND VERIFY 2-TCV-67-102-B Remains CLOSED.

Data Package: Page of 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCW SUP CNTL Logic Test (continued) CAUTION Leads to be lifted in the following steps are energized with 120 NOTE The following step will simulate RCP #2 START [7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERC CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERC CNTL, CLOSES. NOTE The following step will simulate loss of power. [12] PULL 2 Fuses labeled 0-FU-236-4/A41 at 125V VIT	I-067-03 0000 119 of 135	Rev. 0	VALVE LOGIC TES	ERCW	BN nit 2	
CAUTION eads to be lifted in the following steps are energized with 120 NOTE the following step will simulate RCP #2 START [7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERG CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERG CNTL, CLOSES. NOTE The following step will simulate loss of power.	Date	JP CNTL V	MOTOR CLR ERC	7-102-B, RCP 2	2-TCV-67	17
NOTE ne following step will simulate RCP #2 START [7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERC CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERC CNTL, CLOSES. NOTE he following step will simulate loss of power.) 	est (continued)	Logic Tes	
NOTE The following step will simulate RCP #2 START [7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERG CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, ICLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, ICLOSE OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERG CNTL, CLOSES. NOTE The following step will simulate loss of power.						
[7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTIC, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTIC, CLOSES. NOTE The following step will simulate loss of power.	/AC.	with 120V	ving steps are ener	ed in the follow	to be lifted	eads
[7] LIFT Wire CS21 at TB 735-8 in Panel 2-R-77. [8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTL, CLOSES. NOTE he following step will simulate loss of power.	-		NOTE	······································	·	
[8] VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCONTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, in P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERCONTL, CLOSES. NOTE The following step will simulate loss of power.			RCP #2 START	ep will simulate l	owing step	ne fo
CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, is CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, is P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGONTL, CLOSES. NOTE ne following step will simulate loss of power.	1st	77.	at TB 735-8 in Panel	IFT Wire CS21 a	[7] LIF	
CNTL, OPENS. (ACC CRIT) [9] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, is CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, is P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGONTL, CLOSES. NOTE ne following step will simulate loss of power.	CV					
CLOSE position AND VERIFY 2-TCV-67-102-B CLOSES (ACC CRIT). [10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGONTL, CLOSES. NOTE ne following step will simulate loss of power.	W SUP	CLR ERCV	-			•
[10] PLACE 2-HS-67-102, RCP 2 MTR CLR SUP TCV, P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTL, CLOSES. NOTE ne following step will simulate loss of power.	ı the	JP TCV, in				
P-AUTO position AND VERIFY 2-TCV-67-102-B OPENS. [11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTL, CLOSES. NOTE ne following step will simulate loss of power.		CRIT).	67-102-B CLOSES (A	ERIFY 2-TCV-6	VE	
[11] LAND Wire CS21 at TB 735-8 in Panel 2-R-77 AND VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERG CNTL, CLOSES. NOTE ne following step will simulate loss of power.	ı the	JP TCV, in				,
VERIFY 2-TCV-67-102-B, RCP 2 MOTOR CLR ERGENTL, CLOSES. NOTE ne following step will simulate loss of power.			67-102-B OPENS.	ERIFY 2-TCV-6	VE	
CNTL, CLOSES. NOTE ne following step will simulate loss of power.		R-77 AND	1 at TB 735-8 in Pan	AND Wire CS2	[11] LA	
ne following step will simulate loss of power.		CLR ERCV		•		
ne following step will simulate loss of power.	1st				:	
ne following step will simulate loss of power.	CV				· 	
[12] PULL 2 Fuses labeled 0-FU-236-4/A41 at 125V VIT			•	ep will simulate	lowing step	ne fo
SUPPLY BTRY BD IV, Panel 4 (A12-Q, EL 757 AU)	(BLDG)					,
	1st					

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6.17			-102-B, RCP 2 MOTOR CLR ERCW SUP C t (continued)	NTL Valve	
•	[13]	VE	RIFY 2-TCV-67-102-B OPENS (locally).		
			NOTE		
	uses in t		ollowing step have a blown fuse indicator whercuit.	nich must be oriented	l toward
	[14]		PLACE 2 Fuses labeled 0-FU-236-4/A41 at SUPPLY BTRY BD IV, Panel 4 (A12-Q, EL DG)		·
				•	1st
					CV
٠	[15]	VEI	RIFY 2-TCV-67-102-B CLOSES.	• •	<u> </u>
2				•	
			NOTE		
The fo	ollowing	step	will simulate loss of control air.		•
	[16]		OSE 2-ISV-32-3564, CONTROL AIR ISOLA -TCV-67-102.	TION VALVE,	
	[17]		EN bleed petcock at 2-PREG-67-102 CONT ESSURE REG for 2-TCV-67-102, AND	ROL AIR	
	•	VEI	RIFY 2-TCV-67-102-B is FULLY OPEN (Loc	cally).	
	[18]		OSE bleed petcock at 2-PREG-67-102, COI ESSURE REG for 2-TCV-67-102.	NTROL AIR	
	[19]		EN 2-ISV-32-3564, CONTROL AIR ISOLAT CV-67-102, AND	ION VALVE TO	
	· .		RIFY 2-TCV-67-102-B CLOSES to the MOD	DULATE position	

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Ünit	2

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6.18	2 - T0	CV-67-110-B, RCP 4 MOTOR CLR ERCW SUP CNTL Valve	
		ic Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	VERIFY Reactor Coolant Pump 4 is SHUTDOWN.	<u> </u>
÷	[3]	VERIFY/PLACE 2-HS-67-110, RCP 4 MTR CLR SUP TCV, located at Panel 0-M-27A, in the P-AUTO position, AND	· · ·
		VERIFY the following:	
•		A. 2-TCV-67-110-B, RCP 4 MOTOR CLR ERCW SUP CNTL, is CLOSED (IC, EL 727, AZ347).	· .
		B. Green Light ON for 2-HS-67-110 at Panel 0-M-27A.	· · · ·
•		C. Red Light OFF for 2-HS-67-110 at Panel 0-M-27A.	
	[4]	PLACE 2-HS-67-110, RCP 4 MTR CLR SUP TCV, in the OPEN position AND	
		VERIFY the following:	
•		A. 2-TCV-67-110-B, RCP 4 MOTOR CLR ERCW SUP CNTL, is OPEN (locally).	· · · · · · · · · · · · · · · · · · ·
		B. Green Light OFF for 2-HS-67-110 at Panel 0-M-27A.	
•		C. Red Light ON for 2-HS-67-110 at Panel 0-M-27A.	· .
,	[5]	PLACE 2-HS-67-110, RCP 4 MTR CLR SUP TCV, in the CLOSE position AND	
	*.	VERIFY 2-TCV-67-110-B, CLOSES (locally).	·
	[6]	PLACE 2-HS-67-110, RCP 4 MTR CLR SUP TCV, in the P-AUTO position AND	
		VERIFY 2-TCV-67-110-B, Remains CLOSED.	

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	V-67-110-B, RCP 4 MOTOR CLR ERCW (c Test (continued)	SUP CNTL Valve
	CAUTION	
Leads to be	lifted in the following steps are energize	ed with 120VAC.
-	NOTE	
The following	g step will simulate RCP #4 START	
[7]	LIFT Wire CS41 at TB 735-11 in Panel 2	
		1st
		CV
[8]	VERIFY 2-TCV-67-110-B, RCP 4 MOTO CNTL, OPENS. (ACC CRIT)	R CLR ERCW SUP
[9] ·	PLACE 2-HS-67-110, RCP 4 MTR CLR CLOSE position AND	SUP TCV, in the
	VERIFY 2-TCV-67-110-B, CLOSES (AC	C CRIT)
[10]	PLACE 2-HS-67-110, RCP 4 MTR CLR P-AUTO position AND	SUP TCV, in the
	VERIFY 2-TCV-67-110-B, OPENS.	
[11]	LAND Wire CS41 at TB 735-11 in Panel	2-R-77 AND
	VERIFY 2-TCV-67-110-B, RCP 4 MOTO CNTL, CLOSES.	R CLR ERCW SUP
		1st
		CV
The following	NOTE g step will simulate loss of power.	
[12]	PULL 2 Fuses labeled 0-FU-236-4/A42 a SUPPLY BTRY BD IV, Panel 4 (A12-Q,	
		1st
		CV

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	Data	Package:	Page of		Date	
6.18		/-67-110- : Test (co	B, RCP 4 MOTOR CLR ntinued)	ERCW SUP C	NTL Valve	
•	[13]	VERIFY	2-TCV-67-110-B, OPEN	S (locally).		· · · · · · · · · · · · · · · · · · ·
		•				•
			NOT	E		
		he followi or circuit.	ng step have a blown fus	se indicator wh	ich must be oriented	d toward
	[14]		E 2 Fuses labeled 0-FU PLY BTRY BD IV, Panel	,		
		bebo)				1st
		•				CV
	[15]	VERIFY	2-TCV-67-110-B, CLOS	ES.		
			NOT	E	, ,	
The fo	llowing	step will s	simulate loss of control a	ir.		
	[16]	CLOSE to 2-TCV	2-ISV-32-3607, CONTR 7-67-110.	OL AIR ISOLA	TION VALVE,	
+ + + . +	[17]		eed petcock at 2-PREG JRE REG for 2-TCV-67-		ROL AIR	
		VERIFY	2-TCV-67-110-B is FUL	LY OPEN (Loc	ally).	· ·
	[18]		bleed petcock at 2-PRE0 JRE REG for 2-TCV-67-		ITROL AIR	
	[19]		-ISV-32-3607, CONTRO 7-110, AND	L AIR ISOLAT	ION VALVE TO	
	,	VERIFY (locally).	2-TCV-67-110-B CLOSE	ES to the MOD	ULATE position	

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	•		
6.19		CV-67-129, UPPER CNTMT VENT CLR 2A ERCW RET TEMP L Valve Loss of Air/Power Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	· · · · · · · · · · · · · · · · · · ·
	[2]	ENSURE Breaker 16, at 120VAC VIT BD 2-I (A11-R, EL 757 AUX BLDG) is CLOSED.	
	[3]	RECORD as-found setting on 2-TIC-67-129, UPPER CNTM7 VENT CLR 2A ERCW RET TEMP CNTL, at Panel 2-L-336A (A12-V, EL 713)	.
		As-Found setting	
• .	[4]	ENSURE/STOP Upper Containment Vent Cooler Fan 2A per 2-SOI-30.03.	· · · · · · · · · · · · · · · · · · ·
	[5]	ENSURE 2-TCV-67-129, UPPER CNTMT VENT CLR 2A ERCW RET TEMP CNTL, is CLOSED (locally, A12-V, EL 71 Penetration Room).	3,
	[6]	ENSURE/PLACE 2-TIC-67-129, UPPER CNTMT VENT CLF 2A ERCW RET TEMP CNTL, in AUTO at Panel 2-L-336A (A12-V, EL 713), AND	!
		ADJUST for maximum cooling.	·
	[7]	START Upper Containment Vent Cooler Fan 2A per 2-SOI-30.03.	· · · · · · · · · · · · · · · · · · ·
	[8]	VERIFY 2-TCV-67-129, UPPER CNTMT VENT CLR 2A ERCW RET TEMP CNTL, OPENS to MODULATE (locally, A12-V, EL 713, Penetration Room). (ACC CRIT)	· · · · · · · · · · · · · · · · · · ·
	[9]	ADJUST 2-TIC-67-129 for minimal cooling.	· .
	[10]	STOP Upper Containment Vent Cooler Fan 2A per 2-SOI-30.03.	
	[11]	VERIFY 2-TCV-67-129, UPPER CNTMT VENT CLR 2A ERCW RET TEMP CNTL, CLOSES (locally, A12-V, EL 713, Penetration Room).	

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	WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 125 of 135
	Data P	ackage: Page of	Date
6.19		67-129, UPPER CNTMT VENT CLR 2A ERCV Valve Loss of Air/Power Test (continued)	N RET TEMP
	[12]	OPEN Breaker 16 at 120VAC VIT BD 2-I, AND).
		VERIFY 2-TCV-67-129, UPPER CNTMT VENT ERCW RET TEMP CNTL, OPENS.	Γ CLR 2A
	[13]	CLOSE Breaker 16, at 120VAC VIT BD 2-I, AN	ID
		VERIFY 2-TCV-67-129, UPPER CNTMT VENT ERCW RET TEMP CNTL, CLOSES.	Γ CLR 2A
		CLOSE 2-ISV-32-3117, CONTROL AIR ISOLA 2-TCV-67-129.	ATION TO
		OPEN bleed petcock at 2-PREG-67-129, CON PRESSURE REG FOR 2-TCV-67-129, AND	TROL AIR
		VERIFY 2-TCV-67-129 is FULLY OPEN (Loca	lly).
		CLOSE bleed petcock at 2-PREG-67-129, CO PRESSURE REG FOR 2-TCV-67-129.	NTROL AIR
	[17]	OPEN 2-ISV-32-3117, AND	
		VERIFY 2-TIC-67-129, UPPER CNTMT CLR 2 TEMP CNTL, CLOSES to the MODULATE PO (Locally).	
		PLACE 2-TIC-67-129, UPPER CNTMT VENT RET TEMP CNTL, at Panel 2-L-336A (A12-V,	

As-Left setting_

WBI	V
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	Data	Package: Page of	ate
6.20	2-TC CNT		
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	ENSURE Breaker 16, at 120VAC VIT BD 2-I (A11-R, EL 757 AUX BLDG) is CLOSED.	· ·
	[3]	RECORD as-found setting on 2-TIC-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, at Panel 2-L-336B (A12-V, EL 713)	
	٠.	As-Found setting	
·	[4]	ENSURE/STOP Upper Containment Vent Cooler Fan 2C per 2-SOI-30.03.	
	[5]	ENSURE 2-TCV-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, is CLOSED (locally, A12-V, EL 713, Penetration Room).	
	[6]	ENSURE/PLACE 2-TIC-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, in AUTO at Panel 2-L-336B (A12-V, EL 713) AND	
		ADJUST for maximum cooling.	
	[7]	START Upper Containment Vent Cooler Fan 2C per 2-SOI-30.03.	
	[8]	VERIFY 2-TCV-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, OPENS to MODULATE (locally, A12-V, EL 713, Penetration Room). (ACC CRIT)	
	[9]	ADJUST 2-TIC-67-132 for minimal cooling.	
•	[10]	STOP Upper Containment Vent Cooler Fan 2C per 2-SOI-30.03.	
•	[11]	VERIFY 2-TCV-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, CLOSES (locally, A12-V, EL 713, Penetration Room).	· .

WBN Unit 2			ERCW VALVE LOGIC TEST	2-PTI-067-0 Rev. 0000 Page 127 c	
	Data	Packa	age: Page of		Date
6.20			32, UPPER CNTMT VENT CLR 2C I e Loss of Air/Power Test (continue		P
	[12]	OPE	N Breaker 16, at 120VAC VIT BD 2-I	AND	
			IFY 2-TCV-67-132, UPPER CNTMT \ W RET TEMP CNTL, OPENS.	VENT CLR 2C	· · · · · · · · · · · · · · · · · · ·
	[13]	CLO	SE Breaker 16, at 120VAC VIT BD 2-	I, AND	•
	÷		IFY 2-TCV-67-132, UPPER CNTMT \ W RET TEMP CNTL, CLOSES.	VENT CLR 2C	·
	[14]		SE 2-ISV-32-3118, CONTROL AIR IS CV-67-132.	SOLATION TO	
	[15]		N bleed petcock at 2-PREG-67-132, SSURE REG FOR 2-TCV-67-132, Al		
		VER	IFY 2-TCV-67-132 is FULLY OPEN (I	Locally)	,
	[16]		SE bleed petcock at 2-PREG-67-132 SSURE REG FOR 2-TCV-67-132.	, CONTROL AIR	· .
	[17]	OPE	N 2-ISV-32-3118, AND		
		TEM	IFY 2-TCV-67-132, UPPER CNTMT (IP CNTL, CLOSES to the MODULATE		RET

PLACE 2-TIC-67-132, UPPER CNTMT VENT CLR 2C ERCW RET TEMP CNTL, at Panel 2-L-336B (A12-V, EL 713) to the As-Found Setting recorded in Step 6.20[3].

[18]

As-Left setting

WBN Unit 2	ERCW VALVE LOGIC TEST	2-PTI-067-03 Rev. 0000 Page 128 of 135
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	D	ata Package: Page of	Date
6.2		-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEM CNTL Valve Loss of Air/Power Test	P
	[1	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	/e
	[2	ENSURE Breaker 15, at 120VAC VIT BD 2-II (A11-R, EL 757AUX BLDG) is CLOSED.	<u> </u>
	[3	RECORD as-found setting on 2-TIC-67-137, UPPER CNTM VENT CLR 2B ERCW RET TEMP CNTL, at Panel 2-L-336E (A12-V, EL 713)	
		As-Found setting	
	[2	ENSURE/STOP Upper Containment Vent Cooler Fan 2B pe 2-SOI-30.03.	er
	[5	ENSURE 2-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, is CLOSED (locally, A12-V, EL 7 Penetration Room).	13,
•	[6	ENSURE/PLACE 2-TIC-67-137, UPPER CNTMT VENT CL 2B ERCW RET TEMP CNTL, in AUTO at Panel 2-L-336B, A12-V, EL 713, AND	R
		ADJUST for maximum cooling.	
	. [7] START Upper Containment Vent Cooler Fan 2B per 2-SOI-30.03.	· · · · · · · · · · · · · · · · · · ·
	[8	VERIFY 2-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, OPENS to MODULATE (locally, A12-V, EL 713, Penetration Room). (ACC CRIT)	· · · · · · · · · · · · · · · · · · ·
	- [9	ADJUST 2-TIC-67-137 for minimal cooling.	
	[0] STOP Upper Containment Vent Cooler Fan 2B per 2-SOI-30.03.	<u> </u>
	['	1] VERIFY 2-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, CLOSES (locally, A12-V, EL 713 Penetration Room).	, <u> </u>

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	Data	Package: Page of	Date
6.21	2-TC CNTI		
	[12]	OPEN Breaker 15, at 120VAC VIT BD 2-II, AND	
	•	VERIFY 2-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, OPENS.	
	[13]	CLOSE Breaker 15, at 120VAC VIT BD 2-II, AND	
٠		VERIFY 2-TCV-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, CLOSES.	
	[14]	CLOSE 2-ISV-32-3116, CONTROL AIR ISOLATION TO 2-TCV-67-137.	
	[15]	OPEN bleed petcock at 2-PREG-67-137, CONTROL AIR PRESSURE REG FOR 2-TCV-67-137, AND	* .
		VERIFY 2-TCV-67-137 is FULLY OPEN (Locally).	
	[16]	CLOSE bleed petcock at 2-PREG-67-137, CONTROL AIR PRESSURE REG FOR 2-TCV-67-137.	· ·
•	[17]	OPEN 2-ISV-32-3116, AND	
		VERIFY 2-TCV-67-137, UPPER CNTMT CLR 2B ERCW RET TEMP CNTL, CLOSES to the MODULATE POSITION (Locally).	
•	[18]	PLACE 2-TIC-67-137, UPPER CNTMT VENT CLR 2B ERCW RET TEMP CNTL, at Panel 2-L-336B (A12-V, EL 713) to the As-Found Setting recorded in Step 6.21[3].	
	• .	As-l off setting	

WBI	V
Unit	2

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	Data	Package: Page of	Date
6.22		CV-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP L Valve Loss of Air/Power Test	
	[1]	VERIFY all applicable prerequisites listed in Section 4.0 have been completed.	
	[2]	ENSURE Breaker 15, at 120VAC VIT BD 2-II (A11-R, EL 757AUX BLDG) is CLOSED.	
	[3]	RECORD as-found setting on 2-TIC-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP CNTL, at Panel 2-L-336B (A12-V, EL 713)	
		As-Found setting	
	[4]	ENSURE/STOP Upper Containment Vent Cooler Fan 2D per 2-SOI-30.03.	
	[5]	ENSURE 2-TCV-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP CNTL, is CLOSED (locally, A12-V, EL 713 Penetration Room).	3,
	[6]	ENSURE/PLACE 2-TIC-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP CNTL, in AUTO at Panel 2-L-336B (A12-V, EL 713), AND	
		ADJUST for maximum cooling.	•
	[7]	START Upper Containment Vent Cooler Fan 2D per 2-SOI-30.03.	<u></u>
	[8]	VERIFY 2-TCV-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP CNTL, OPENS to MODULATE (locally, A12-V, EL 713, Penetration Room).(ACC CRIT)	· · · · · · · · · · · · · · · · · · ·
	[9]	ADJUST 2-TIC-67-140 for minimal cooling.	
	[10]	STOP Upper Containment Vent Cooler Fan 2D per 2-SOI-30.03.	
	[11]	VERIFY 2-TCV-67-140, UPPER CNTMT VENT CLR 2D ERCW RET TEMP CNTL, CLOSES (locally, A12-V, EL 713, Penetration Room).	

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	Data	Pacl	kage: Page of			Date	
6.22			-140, UPPER CNTMT VENT CLR 2D El ve Loss of Air/Power Test (continued		RET TE	MP	· · .
	[12]	OP	EN Breaker 15, at 120VAC VIT BD 2-II,	AND.		•	
			RIFY 2-TCV-67-140, UPPER CNTMT VI CW RET TEMP CNTL, OPENS.	ENT (CLR 2D		
	[13]	CL	OSE Breaker 15, at 120VAC VIT BD 2-II	II, ANI	·		
			RIFY 2-TCV-67-140, UPPER CNTMT VI CW RET TEMP CNTL, CLOSES.	ENT (CLR 2D		· ,
	[14]		OSE 2-ISV-32-3115, CONTROL AIR ISO CV-67-140.	OLAT	ION TO		
	[15]		EN bleed petcock at 2-PREG-67-140, C ESSURE REG FOR 2-TCV-67-140, AN		ROL AIR		
		VE	RIFY 2-TCV-67-140 is FULLY OPEN (Lo	.ocally).		
	[16]		OSE bleed petcock at 2-PREG-67-140, ESSURE REG FOR 2-TCV-67-140.	CON	TROL AI	R	
	[17]	OP	EN 2-ISV-32-3115, AND			•	

VERIFY 2-TCV-67-140, UPPER CNTMT CLR 2D ERCW RET

PLACE 2-TIC-67-140, UPPER CNTMT VENT CLR 2D ERCW

RET TEMP CNTL, at Panel 2-L-336B (A12-V, EL 713) to the As-Found Setting recorded in Step 6.22[3].

TEMP CNTL, CLOSES to the MODULATE POSITION

(Locally).

As-Left setting

[18]

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,	Data	Package: Page of	Date	
7.0	POS	T PERFORMANCE ACTIVITY		
	[1]	NOTIFY the Unit 2 US/SRO of the test comalignment.	oletion and system	

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8.0 RECORDS

A. QA Records

Completed Test Package

B. Non-QA Records

None

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Appendix A (Page 1 of 1) DRAWINGS AND REFERENCES

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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)
Unit 2 FSAR Section 9.2.1 Table 14.2-1 Sheet 4 and 5 of 89			
WBN2-67-4002			
2-SOI-30.03			
2-TSD-67		·	
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TEMPORARY CONDITIONS LOG

Data Package: Page of	Date
NOTE	
These steps will be N/A 'd if no temporary condition existed. may be made as necessary.	Additional copies of this table

	TEMPORARY	PERFORMED		RETURNED TO NORMAL	
ITEM NUMBER	CONDITION DESCRIPTION	Step Number	Perf. By/Date 2nd By/Date	Step Number	Returned By/Date 2nd By/Date
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