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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.3.b 4 O’CLOCK (PEER 9) GATE TESTS FROM LOCAL PANEL

C-A-OPM Procedures in which this Attachment is used.		
4.120.3		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman Date

V. Castillo

4.120.3.b 4 O’CLOCK (PEER 9) GATE TESTS FROM LOCAL PANEL

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____ Checksum: _____

Division B Software Filename and Checksum: Title:_____ Checksum: _____

Initial testing complete:

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head’s Name (Print): _____ Life Number: _____

Safety Section Head’s Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member’s Name (Print): _____ Life Number: _____

RSC Member’s Name (Sign): _____ Date: ____/____/____

1.1 Test of Reset retention with change of modes

- VERIFY PLACE** **Transfer Key is in local panel and captured Peer 9 in Controlled Access (Mode 18)** **MODE 18**
- VERIFY RESET** **Peer 9 is in Gates: 3GI1, 3EL1, 4GE1, 4GE2, 4MD1, 4MD2 and 4GI1 with #11 sweep key** **RESET**
- VERIFY PLACE** **Gates: 3GI1, 3EL1, 4GE1, 4GE2, 4MD1, 4MD2 and 4GI1 are Peer 9 in Restricted Access (Mode 9)** **RESET**
- VERIFY** **Peer 9 is in** **MODE 9**
- VERIFY** **Gates: 3GI1, 3EL1, 4GE1, 4GE2, 4MD1, 4MD2 and 4GI1 are still** **RESET**
- VERIFY PLACE** **Peer 9 in Safe Access (Mode 1)** **MODE 1**
- VERIFY** **Peer 9 is in** **MODE 1**
- VERIFY** **Gates: 3GI1, 3EL1, 4GE1, 4GE2, 4MD1, 4MD2 and 4GI1 are still** **RESET**
- Check for acceptance of Test of Reset retention with change of modes**

1.2 Test of INNER GATE at 3GI1

- VERIFY** **INNER Gate at 3GI1 has been inspected** **MODE 8**
- VERIFY** **PEER 11 is in Restricted Access** **MODE 8**
- PLACE** **PEER 9 in Safe Access (MODE 1)** **MODE 1**
- VERIFY** **PEER 9 is in Safe Access** **MODE 1**
- VERIFY** **Local control Panel (LCP) sees gate 3GI1** **NOT RESET**
- VERIFY** **Attempt to open 3GI1 with keys: S , #11** **FAIL**
- VERIFY** **Attempt to Reset gate with #11 key** **FAIL**
- VERIFY** **Attempt to open 4GE1 with Blue card is** **FAIL**
- VERIFY** **During attempt with Blue Card Reader light is** **Green**
- VERIFY** **Attempt to open 4GE1 with Expt. (_____) card** **FAIL**
- VERIFY** **During attempt with Expt. Card Reader light is** **Red**
- VERIFY** **3GI1 gate Reset light is** **OFF**
- PLACE** **PEER 9 in Restricted Access (MODE 9)** **MODE 9**
- VERIFY** **PEER 9 is in Restricted Access** **MODE 9**
- VERIFY** **Attempt to open 3GI1 with keys: S , #11** **SUCCESSFUL**
- VERIFY** **Attempt to open 3GI1 with Blue Card** **SUCCESSFUL**
- CLOSE** **Gate 3GI1** **NOT RESET**
- VERIFY** **Local Control Panel (LCP) sees the gate is** **NOT RESET**
- VERIFY** **The 3GI1 Gate Reset light is** **OFF**
- PLACE** **PEER 9 in Controlled Access (MODE 18)** **MODE 18**
- VERIFY** **PEER 9 is in Controlled Access** **MODE 18**
- RESET** **The gate with #11 RF Sweep Key at 3GI1 inner gate box**

- VERIFY** LCP sees gate **RESET**
- VERIFY** The 3GI1 gate **Reset** light is **ON**
- OPEN** Gate 3GI1
- VERIFY** Local Control Panel (LCP) sees the gate is **NOT RESET**
- VERIFY** The 3GI1 Gate **Reset** light is **OFF**
- CLOSE** Gate 3GI1
- CHECK** for test acceptance of **INNER GATE** at 3GI1

1.3 Test ESCAPE DOOR at 3EL1

- PLACE** PEER 9 in Controlled Access (MODE 18)
- VERIFY** PEER 9 is in Controlled Access **MODE 18**
- VERIFY** LCP sees the door is **NOT RESET**
- VERIFY** The 3EL1 Door Reset light is **OFF**
- RESET** The Door with #11 RC Sweep key at 3EL1 gate box
- VERIFY** LCP sees the 3EL1 door is **RESET**
- VERIFY** The 3EL1 Door Reset light is **ON**
- OPEN** The door
- VERIFY** LCP sees the door is **NOT RESET**
- VERIFY** The 3EL1 gate box Gate Reset light is **OFF**
- CLOSE** The door and latch the **Security Bar**
- VERIFY** LCP sees the door is **NOT RESET**
- VERIFY** The 3EL1 gate box Gate Reset light is **OFF**

- PLACE** PEER 9 in Safe Access (MODE 1)
- VERIFY** PEER 9 is in Safe Access **MODE 1**
- VERIFY** Attempt to reset 3EL1 with #11 key **FAIL**

- PLACE** PEER 9 in Restricted Access (MODE 9)
- VERIFY** PEER 9 is in Restricted Access **MODE 9**
- VERIFY** Attempt to reset 3EL1 with #11 key **FAIL**
- CHECK** for test acceptance of **ESCAPE DOOR** at 3EL1

1.4 Test of TRENCH GATE at 4MD1

- PLACE** PEER 9 in Controlled Access (MODE 18)
- VERIFY** PEER 9 is in Controlled Access **MODE 18**
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The gate box Gate Reset light is **OFF**
- RESET** The gate with #11 RF Sweep key
- VERIFY** LCP sees the gate is **RESET**
- VERIFY** The gate box Gate Reset light is **ON**
- OPEN** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The gate box Gate Reset light is **OFF**
- CLOSE** The gate

- PLACE** PEER 9 in Safe Access (MODE 1)
- VERIFY** PEER 9 is in Safe Access **MODE 1**
- VERIFY** Attempt to reset 4MD1 with #11 key **FAIL**

- PLACE** PEER 9 in Restricted Access (MODE 9)
- VERIFY** PEER 9 is in Restricted Access **MODE 9**
- VERIFY** Attempt to reset 4MD1 with #11 key **FAIL**
- CHECK** for test acceptance of **TRENCH GATE** at 4MD1

1.5 Test of ENTRY GATE at 4GE1

- VERIFY** **INNER** Gate at **4GE1** has been inspected
- PLACE** **PEER 9** in **Controlled Access (MODE 18)**
- VERIFY** **PEER 9** is in **Controlled Access** **MODE 18**
- VERIFY** The warning light on the **inside** of the gate indicates is **ON**
- VERIFY** The **Exterior** gate box **Controlled Access** light is **ON**
- RESET** The gate with **#11 RF Sweep** key at the **interior** gate box
- VERIFY** LCP sees the gate is **RESET**
- VERIFY** The **4GE1** gate box Gate **Reset** light is **ON**
- OPEN** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The **4GE1** gate box Gate **Reset** light is **OFF**
- CLOSE** The gate

- PLACE** **PEER 9** in **Restricted Access (Mode 8)**
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- VERIFY** The **Exterior** gate box **Restricted Access** light is **ON**
- VERIFY** The warning light on the **inside** of the gate indicate: **OFF**
- OPEN** Gate **4GE1** from gate box with the **S** key
- VERIFY** **Tester** sees gate **4GE1** is **OPEN**
- OPEN** Gate **4GE1** with the **#10** key
- VERIFY** **Tester** sees gate **4GE1** is **OPEN**
- CLOSE** Gate **4GE1**
- VERIFY** Attempt to open **4GE1** with **Blue card** is **SUCCESSFUL**
- VERIFY** Attempt to open **4GE1** with **Expt. () card** **FAIL**
- VERIFY** **During** attempt with **Expt. Card Reader light** is **Red**

- PLACE** **PEER 9** in **Safe Access (Mode 1)**
- VERIFY** **PEER 9** is in **Safe Access** **MODE 1**
- VERIFY** The **Exterior** gate box **Controlled Access** light is **ON**
- VERIFY** The warning light on **inside** of the gate is **ON**
- CHECK** for test acceptance of **ENTRY GATE** at **4GE1**

1.6 Test of TRENCH GATE at 4MD2

- VERIFY** Gate has been inspected
- PLACE** **PEER 9** in **Controlled Access (MODE 18)**
- VERIFY** **PEER 9** is in **Controlled Access** **MODE 18**
- OPEN** The gate
- VERIFY** **Tester** sees gate **4MD2** is **OPEN**
- CLOSE** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The gate box Gate **Reset** light is **OFF**
- RESET** The gate with **#11 RF Sweep** key
- VERIFY** LCP sees the gate is **RESET**
- VERIFY** The gate box Gate **Reset** light is **ON**
- OPEN** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The gate box Gate **Reset** light is **OFF**
- CLOSE** The gate
- CHECK** for test acceptance of **TRENCH GATE** at **4MD2**

1.7 Test of ENTRY GATE at 4GE2

<input type="checkbox"/>	VERIFY	ENTRY Gate at 4GE2 has been inspected	
	PLACE	PEER 9 in Controlled Access (MODE 18)	
<input type="checkbox"/>	VERIFY	PEER 9 is in Controlled Access	MODE 18
<input type="checkbox"/>	VERIFY	The warning light on inside of the gate indicates:	
		Stop Call MCR for EXIT x-7400 Stop (Red)	ON
<input type="checkbox"/>	VERIFY	The Exterior gate box Controlled Access light is	ON
	OPEN	Gate 4GE2 with Simultaneous Release and #10 RF CA Key	
<input type="checkbox"/>	VERIFY	Simultaneous Release Buzzer <input type="checkbox"/> and Light <input type="checkbox"/>	ON
<input type="checkbox"/>	VERIFY	Tester sees gate 4GE2 is	OPEN
<input type="checkbox"/>	VERIFY	LCP sees the gate is	NOT RESET
	CLOSE	The gate	
<input type="checkbox"/>	VERIFY	LCP sees the gate is	NOT RESET
<input type="checkbox"/>	VERIFY	The gate box Gate Reset light is	OFF
	RESET	The gate with #11 RF Sweep key at 4GE2 gate box	
<input type="checkbox"/>	VERIFY	LCP sees the gate is	RESET
<input type="checkbox"/>	VERIFY	The 4GE2 gate box Gate Reset light is	ON
	OPEN	The gate	
<input type="checkbox"/>	VERIFY	Tester sees gate 4GE2 is	OPEN
<input type="checkbox"/>	VERIFY	The 4GE2 gate box Gate Reset light is	OFF
	CLOSE	The gate	
	PLACE	PEER 9 in Restricted Access (Mode 9)	
<input type="checkbox"/>	VERIFY	PEER 9 is in Restricted Access	MODE 9
<input type="checkbox"/>	VERIFY	The Exterior gate box Restricted Access light is	ON
<input type="checkbox"/>	VERIFY	The warning light on inside of the gate indicates:	
		ACCESS PERMITTED GREEN	ON
	OPEN	Gate 4GE2 with the S key	
<input type="checkbox"/>	VERIFY	Tester sees gate 4GE2 is	OPEN
	OPEN	Gate 4GE2 with the #10 RC CA key	
<input type="checkbox"/>	VERIFY	Tester sees gate 4GE2 is	OPEN
	CLOSE	Gate 4GE2	
<input type="checkbox"/>	VERIFY	Attempt to open 4GE1 with Blue card is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 4GE1 with Expt. (_____) card	FAIL
<input type="checkbox"/>	VERIFY	During attempt with Expt. Card Reader light is	Red
	PLACE	PEER 9 in Safe Access (Mode 1)	
<input type="checkbox"/>	VERIFY	PEER 9 is in Safe Access	MODE 1
<input type="checkbox"/>	VERIFY	The Exterior gate box Controlled Access light is	ON
<input type="checkbox"/>	VERIFY	The warning light on inside of the gate indicates:	
		* Stop Call MCR For EXIT x-7400 Stop	ON
		AMBER	
	OPEN	Gate 4GE2 with Simultaneous Release and S Key	
<input type="checkbox"/>	VERIFY	Attempt to open gate 4GE2 with Simultaneous Release and S Key	FAIL
	OPEN	Gate 4GE2 with Simultaneous Release and #10 RF CA Key	
<input type="checkbox"/>	VERIFY	Tester sees gate 4GE2 is	OPEN
	CLOSE	Gate 4GE2	

- VERIFY** Attempt to open gate **4GE2** with **Outside Emergency Release Button (OERB)** **Successful**
- CLOSE** Gate **4GE2**
- VERIFY** Attempt to open gate **4GE2** with **Inside Emergency Release Button (IERB)** **Successful**
- CLOSE** Gate **4GE2**
- CHECK** for test acceptance of **ENTRY GATE** at **4GE2**

1.8 Test of INNER GATE at 4GI1

- VERIFY** **INNER** Gate at **4GI1** has been inspected
- PLACE** **PEER 9** in **Controlled Access (MODE 18)**
- VERIFY** **PEER 9** is in **Controlled Access** **MODE 18**
- VERIFY** The warning lights and **LED message** on **both** sides of the gate indicate: **ON**
- VERIFY** ***Stop Call MCR For Exit x-7400 Stop Red**
- VERIFY** The **4Z2** gate box **Restricted Access** light is **ON**
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** Attempt to open **4GE1** with **Blue card** is **FAIL**
- VERIFY** **During** attempt with **Blue Card Reader light** is **Green**
- VERIFY** Attempt to open **4GE1** with **Expt. (_____)** **FAIL**
- VERIFY** **During** attempt with **Expt. Card Reader light** is **Red**
- VERIFY** The **4Z1** gate box Gate Reset light is **OFF**
- RESET** The gate with **#11 RF** Sweep key at **4Z1 inner** gate box
- VERIFY** LCP sees the gate is **RESET**
- VERIFY** The **4Z1** gate box Gate Reset light is **ON**
- OPEN** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The **4Z1** gate box Gate Reset light is **OFF**
- CLOSE** The gate
- VERIFY** The **4Z2** gate box **Gate Reset** light is **OFF**
- RESET** The gate with **#11 RF** Sweep key at **4Z2 inner** gate box
- VERIFY** LCP sees the gate is **RESET**
- VERIFY** The **4Z2** gate box Gate Reset light is **ON**
- OPEN** The gate
- VERIFY** LCP sees the gate is **NOT RESET**
- VERIFY** The **4Z2** gate box Gate Reset light is **OFF**
- CLOSE** The gate
- PLACE** **PEER 9** in **Restricted Access (Mode 9)**
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 9**
- VERIFY** The **4Z2** gate box **Restricted Access** light is **ON**
- VERIFY** The warning lights and **LED message** on **both** sides of the gate indicates: **ACCESS PERMITTED GREEN ON**

- OPEN** Gate **4GI1** from **4Z2** with the **S** key
- VERIFY** **Tester** sees gate **4GI1** is **OPEN**
- OPEN** Gate **4GI1** with the **#11 RF Sweep** key
- VERIFY** **Tester** sees gate **4GI1** is **OPEN**
- OPEN** Gate **4GI1** with **Blue Card**
- VERIFY** **Tester** sees gate **4GI1** is **OPEN**
- CLOSE** Gate **4GI1**

- PLACE** **PEER 9** in **Safe Access (Mode 1)**
- VERIFY** **PEER 9** is in **Safe Access** **MODE 1**
- VERIFY** The **4Z2** gate box **Restricted Access** light is **ON**
- VERIFY** The warning lights and **LED message** on **both** sides of the gate indicates: **ON**
***Stop Call MCR For Exit x-7400 Stop AMBER**

- CHECK** for test acceptance of **INNER GATE** at **4GI1**

1.9 Verify Indicator Lights at OUTER GATE of 4GI1:

- PLACE** **PEER 9** in **Controlled Access (MODE 18)**
- VERIFY** **PEER 9** is in **Controlled Access** **MODE 18**
- VERIFY** The warning light on **4Z1 side** of the gate indicate:
Call MCR for crossover AMBER ON

- CHECK** for test acceptance of **OUTER GATE** at **4GI1**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____