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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.2.g 2 O'Clock (PEER 11) Power-Up Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.2		

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

4.120.2.g 2 O’Clock (PEER 11) Power-Up Tests

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	PLACE	Peer 11 in Mode 16	
	☐ VERIFY	Peer 11 is in Controlled Access	MODE 16
	RESET	Peer 11 gates: 1GS1, 1EL1, 1GI1, 2MD1, 2GE1, 2MD2, 2GI1, 2GE2, 2MD3, 2EL1, 2ED1, and 3GI1	
	☐ VERIFY	Peer 11 gates: ☐ 1GS1, ☐ 1EL1, ☐ 1GI1, ☐ 2MD1, ☐ 2GE1, ☐ 2MD2, ☐ 2GI1, ☐ 2GE2, ☐ 2MD3, ☐ 2EL1, ☐ 2ED1, ☐ 3GI1 are	RESET
	SWEEP	Peer 11 Zones: 1Z1, 2Z1, 2Z2	
	☐ VERIFY	Peer 11 Zones: ☐ 1Z1, ☐ 2Z1, ☐ 2Z2 are	SWEPT
	PLACE	Peer 11 in Mode 24	
	☐ VERIFY	Peer 11 is in No Access	MODE 24
1.2	TEST TURN OFF	Division A PLC for Power-up conditions AC Power to the Peer 11 Division A PLC	
	☐ VERIFY	AC Power to the Peer 11 Division A PLC is	TURNED OFF
	WAIT	30 Seconds	
	TURN ON	AC Power to the Peer 11 Division A PLC	
	☐ VERIFY	AC Power to the Peer 11 Division A PLC is	TURNED ON
	☐ VERIFY	MCR sees Peer 11 Division A PLC come up in	MODE 2
	RESET	Div A Hardware Faults	
	☐ VERIFY	Div A Hardware Faults are	RESET
	☐ VERIFY	MCR sees Div A RHIC Injection Critical Device	RCI
	☐ VERIFY	MCR sees Div A RHIC Critical Device is	RC
	☐ VERIFY	MCR sees Div A Permit Link is	INHIBITED
	☐ VERIFY	MCR sees Peer 11 Div A gates: ☐ 1GS1, ☐ 1EL1, ☐ 1GI1, ☐ 2MD1, ☐ 2GE1, ☐ 2MD2, ☐ 2GI1, ☐ 2GE2, ☐ 2MD3, ☐ 2EL1, ☐ 2ED1, ☐ 3GI1 are	NOT RESET
	☐ VERIFY	MCR sees Peer 11 Div A Crash Systems are	NOT CRASHED
	☐ VERIFY	MCR sees Peer 11 Div A Zones are	NOT SWEPT
	☐ VERIFY	MCR sees Peer 11 Div B: ☐ Mode, ☐ H/W Faults, ☐ RHIC Inj CD, ☐ RHIC CD, ☐ Perm. Link, ☐ Gates, ☐ Crash, ☐ Zones	NO CHANGE

	PLACE	Peer 11 in Mode 16	
<input type="checkbox"/>	VERIFY	Peer 11 is in Controlled Access	MODE 16
	RESET	Peer 11 Div A gates: 1GS1, 1EL1, 1GI1, 2MD1, 2GE1, 2MD2, 2GI1, 2GE2, 2MD3, 2EL1, 2ED1, and 3GI1	
<input type="checkbox"/>	VERIFY	Peer 11 Div A gates: <input type="checkbox"/> 1GS1, <input type="checkbox"/> 1EL1, <input type="checkbox"/> 1GI1, <input type="checkbox"/> 2MD1, <input type="checkbox"/> 2GE1, <input type="checkbox"/> 2MD2, <input type="checkbox"/> 2GI1, <input type="checkbox"/> 2GE2, <input type="checkbox"/> 2MD3, <input type="checkbox"/> 2EL1, <input type="checkbox"/> 2ED1, <input type="checkbox"/> 3GI1 are	RESET
	SWEEP	Peer 11 Div A Zones: 1Z1, 2Z1, 2Z2	
<input type="checkbox"/>	VERIFY	Peer 11 Zones: <input type="checkbox"/> 1Z1, <input type="checkbox"/> 2Z1, <input type="checkbox"/> 2Z2 are	SWEPT
	PLACE	Peer 11 in Mode 24	
<input type="checkbox"/>	VERIFY	Peer 11 is in No Access	MODE 24

1.3

	TEST	Division B PLC for Power-up conditions	
	TURN OFF	AC Power to the Peer 11 Division B PLC	
<input type="checkbox"/>	VERIFY	AC Power to the Peer 11 Division B PLC is	TURNED OFF
	WAIT	30 Seconds	
	TURN ON	AC Power to the Peer 11 Division B PLC	
<input type="checkbox"/>	VERIFY	AC Power to the Peer 11 Division B PLC is	TURNED ON
<input type="checkbox"/>	VERIFY	MCR sees Peer 11 Division B PLC come up in	MODE 2
	RESET	Div B Hardware Faults	
<input type="checkbox"/>	VERIFY	Div B Hardware Faults are	RESET
<input type="checkbox"/>	VERIFY	MCR sees Div B RHIC Injection Critical Device	RCI
<input type="checkbox"/>	VERIFY	MCR sees Div B RHIC Critical Device is	RC
<input type="checkbox"/>	VERIFY	MCR sees Div B Permit Link is	INHIBITED
<input type="checkbox"/>	VERIFY	MCR sees Peer 11 Div B gates: <input type="checkbox"/> 1GS1, <input type="checkbox"/> 1EL1, <input type="checkbox"/> 1GI1, <input type="checkbox"/> 2MD1, <input type="checkbox"/> 2GE1, <input type="checkbox"/> 2MD2, <input type="checkbox"/> 2GI1, <input type="checkbox"/> 2GE2, <input type="checkbox"/> 2MD3, <input type="checkbox"/> 2EL1, <input type="checkbox"/> 2ED1, <input type="checkbox"/> 3GI1 are	NOT RESET
<input type="checkbox"/>	VERIFY	MCR sees Peer 11 Div B Crash Systems are	NOT CRASHED
<input type="checkbox"/>	VERIFY	MCR sees Peer 11 Div B Zones are	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 11 Div A: <input type="checkbox"/> Mode, <input type="checkbox"/> H/W Faults, <input type="checkbox"/> RHIC Inj CD, <input type="checkbox"/> RHIC CD, <input type="checkbox"/> Perm. Link, <input type="checkbox"/> Gates, <input type="checkbox"/> Crash, <input type="checkbox"/> Zones	NO CHANGE

	PLACE	Peer 11 in Mode 16	
<input type="checkbox"/>	VERIFY	Peer 11 is in Controlled Access	MODE 16
	RESET	Peer 11 Div B gates: 1GS1, 1EL1, 1GI1, 2MD1, 2GE1, 2MD2, 2GI1, 2GE2, 2MD3, 2EL1, 2ED1, and 3GI1	
<input type="checkbox"/>	VERIFY	Peer 11 Div B gates: <input type="checkbox"/> 1GS1, <input type="checkbox"/> 1EL1, <input type="checkbox"/> 1GI1, <input type="checkbox"/> 2MD1, <input type="checkbox"/> 2GE1, <input type="checkbox"/> 2MD2, <input type="checkbox"/> 2GI1, <input type="checkbox"/> 2GE2, <input type="checkbox"/> 2MD3, <input type="checkbox"/> 2EL1, <input type="checkbox"/> 2ED1, <input type="checkbox"/> 3GI1 are	RESET
	SWEEP	Peer 11 Div B Zones: 1Z1, 2Z1, 2Z2	
<input type="checkbox"/>	VERIFY	Peer 11 Zones: <input type="checkbox"/> 1Z1, <input type="checkbox"/> 2Z1, <input type="checkbox"/> 2Z2 are	SWEPT

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____