

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are available by contacting the **ESSHQ Procedures Coordinator, Bldg. 911A***

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.52.g U-Upstream & V-Target (PEER 23) Power-Up Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.52		

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

4.120.52.g U-Upstream & V-Target (PEER 23) Power-Up Tests

PASS SEMI-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: ____/____/____

NOTE:

All personnel working on any electrical system or equipment in the C-AD shall be familiar with BNL [SBMS Electrical Safety](#), BNL [SBMS Lockout/Tagout \(LO/TO\)](#), [C-A-OPM 1.5, "Electrical Safety Implementation Plan"](#), [C-A-OPM 1.5.3 "Procedure to Open or Close Breakers and Switches and Connecting/Disconnecting Plugs"](#), [C-A-OPM 2.36, "Lockout/Tagout for Control of Hazardous Energy"](#). C-AD will provide on-site/work specific training to individuals in the electrical safety aspects of their job functions and assignments.

1.1 Test of power-up of Division A PLC in Restricted Access, Mode 8

- | | | | |
|--------------------------|-----------------|---|-------------------|
| <input type="checkbox"/> | PLACE | Peer 23 in Restricted Access, Mode 8 | |
| <input type="checkbox"/> | VERIFY | Peer 23 is in Restricted Access | MODE 8 |
| | TURN OFF | AC Power to the Peer 23 Division A PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 23 Division A PLC is | TURNED OFF |
| | WAIT | 30 Seconds | |
| | TURN ON | AC Power to the Peer 23 Division A PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 23 Division A PLC is | TURNED ON |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 23 Division A PLC is in | MODE 2 |
| | RESET | Div A Hardware Faults | |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Hardware Faults are | RESET |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Critical Devices: DH2 & 3 are | DISABLED |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Gates are | NOT RESET |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Zones are | NO SWEEP |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Chipmunks are | O.K. |
| <input type="checkbox"/> | VERIFY | MCR sees Div A Crash Systems are | <u>O.K.</u> |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 23 Div B: <input type="checkbox"/> Mode, <input type="checkbox"/> H/W Faults, <input type="checkbox"/> DH2 & 3, <input type="checkbox"/> Gates, <input type="checkbox"/> Crash, <input type="checkbox"/> Sweep, <input type="checkbox"/> Chipmunks | NO CHANGE |
- Check for acceptance of Test of power up of Division A PLC in Restricted Access, Mode 8**

1.2 Test of power-up of Division B PLC in Restricted Access, Mode 8

- | | | | |
|--------------------------|-----------------|---|-------------------|
| <input type="checkbox"/> | PLACE | Peer 23 in Restricted Access, Mode 8 | |
| <input type="checkbox"/> | VERIFY | Peer 23 is in Restricted Access | MODE 8 |
| | TURN OFF | AC Power to the Peer 23 Division B PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 23 Division B PLC is | TURNED OFF |
| | WAIT | 30 Seconds | |
| | TURN ON | AC Power to the Peer 23 Division B PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 23 Division B PLC is | TURNED ON |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 23 Division B PLC is in | MODE 2 |
| | RESET | Div B Hardware Faults | |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Hardware Faults are | RESET |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Critical Devices: DH2 & 3 are | DISABLED |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Gates are | NOT RESET |

- VERIFY** MCR sees **Div B** Zones are **NO SWEEP**
- VERIFY** MCR sees **Div B** Chipmunks are **O.K.**
- VERIFY** MCR sees **Div B** Crash Systems are O.K.

- VERIFY** MCR sees **Peer 23 Div B:** Mode, H/W Faults, DH2 & 3 **NO CHANGE**
 Gates, Crash , Sweep, Chipmunks
- Check for acceptance of Test of power up of Division B PLC in Restricted Access, Mode 8**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____