

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

4.120.54.g U-Down & V-Primary (PEER 25) Power-Up Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.54		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman Date

V. Castillo

4.120.54.g U-Down & V-Primary (PEER 25) 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 25 in Restricted Access, Mode 8 | |
| <input type="checkbox"/> | VERIFY | Peer 25 is in Restricted Access | MODE 8 |
| | TURN OFF | AC Power to the Peer 25 Division A PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 25 Division A PLC is | OFF |
| | WAIT | 30 Seconds | |
| | TURN ON | AC Power to the Peer 25 Division A PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 25 Division A PLC is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 25 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: UD1,2 <input type="checkbox"/> and H10 <input type="checkbox"/> 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 | O.K. |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 25 Div B: <input type="checkbox"/> Mode, <input type="checkbox"/> H/W Faults, <input type="checkbox"/> UD1,2 <input type="checkbox"/> H10 <input type="checkbox"/> Gates, <input type="checkbox"/> Crash, <input type="checkbox"/> Sweep, <input type="checkbox"/> Chipmunks | NO CHANGE |
| <input type="checkbox"/> | | 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 25 in Restricted Access, Mode 8 | |
| <input type="checkbox"/> | VERIFY | Peer 25 is in Restricted Access | MODE 8 |
| | TURN OFF | AC Power to the Peer 25 Division B PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 25 Division B PLC is | OFF |
| | WAIT | 30 Seconds | |
| | TURN ON | AC Power to the Peer 25 Division B PLC | |
| <input type="checkbox"/> | VERIFY | AC Power to the Peer 25 Division B PLC is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 25 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: UD1,2 <input type="checkbox"/> and H10 <input type="checkbox"/> are | DISABLED |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Gates are | NOT RESET |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Zones are | NO SWEEP |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Chipmunks are | O.K. |
| <input type="checkbox"/> | VERIFY | MCR sees Div B Crash Systems are | O.K. |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 25 Div B: <input type="checkbox"/> Mode, <input type="checkbox"/> H/W Faults, <input type="checkbox"/> UD1,2 <input type="checkbox"/> H10 <input type="checkbox"/> Gates, <input type="checkbox"/> Crash , <input type="checkbox"/> Sweep, <input type="checkbox"/> Chipmunks | NO CHANGE |
| <input type="checkbox"/> | 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: ____/____/____