

*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

4.120.4.d 4 O’Clock (PEER 9) Sweep Tests from MCR

C-A-OPM Procedures in which this Attachment is used.		
4.120.4		

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

4.120.4.d 4 O’Clock (PEER 9) Sweep Tests from MCR

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 Sweep of Zone 4Z1

- | | | | |
|--------------------------|--|---|--------------------|
| <input type="checkbox"/> | CLOSE | Gates 3GI1-I/O, 3EL1, 4MD1, 4MD2, 4GE1and 4GE2 | |
| <input type="checkbox"/> | VERIFY | Gates 3GI1-I/O, 3EL1, 4MD1, 4MD2, 4GE1and 4GE2 | CLOSED |
| <input type="checkbox"/> | RESET | Gates 3EL1, 4MD1 and 4MD2 | |
| <input type="checkbox"/> | VERIFY | Gates 3EL1, 4MD1 and 4MD2 | RESET |
| <input type="checkbox"/> | PLACE | Peer 9 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 9 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | ACTIVATE | Check station 3CS1 | |
| <input type="checkbox"/> | VERIFY | Check station 3CS1 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 3CS2 | |
| <input type="checkbox"/> | VERIFY | Check station 3CS2 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 3CS3 | |
| <input type="checkbox"/> | VERIFY | Check station 3CS3 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 4XCS2 | |
| <input type="checkbox"/> | VERIFY | Check station 4XCS2 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 4XCS3 | |
| <input type="checkbox"/> | VERIFY | Check station 4XCS3 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | ACTIVATE | Check station 4XCS4 | |
| <input type="checkbox"/> | VERIFY | Check station 4XCS4 indicator (Area Secured) | ON |
| <input type="checkbox"/> | EXIT | Gate 4GE2 with Simultaneous Release , leaving 1 ACG Personnel inside | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 4Z1 | SWEPT |
| <input type="checkbox"/> | Check for acceptance of Test of Sweep of Zone 4Z1 | | |

1.2 Test Illegal exit through gate drops Sweep

- | | | | |
|--------------------------|---|--|------------------|
| <input type="checkbox"/> | OPEN | Gate 4GE2 without Simultaneous Release and Exit | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 4Z1 | NOT SWEPT |
| <input type="checkbox"/> | CLOSE | Gate 4GE2 | |
| <input type="checkbox"/> | Check for acceptance of Test Illegal exit through gate drops Sweep | | |

1.3 Test Attempt to Sweep with Gate open fail

- | | | | |
|--------------------------|--|---|--------------------|
| <input type="checkbox"/> | VERIFY | Gates 3GI1-I/O, 3EL1, 4MD1, 4MD2, 4GE1and 4GE2 | CLOSED |
| <input type="checkbox"/> | RESET | Gates 3EL1, 4MD1 and 4MD2 | |
| <input type="checkbox"/> | VERIFY | Gates 3EL1, 4MD1 and 4MD2 | RESET |
| <input type="checkbox"/> | PLACE | Peer 9 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 9 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | OPEN | Gate 4GE2 and Hold open | |
| <input type="checkbox"/> | ACTIVATE | Check station 3CS1 | |
| <input type="checkbox"/> | VERIFY | Check station 3CS1 does | NOT BLINK |
| <input type="checkbox"/> | CLOSE | Gate 4GE2 | |
| <input type="checkbox"/> | ACTIVATE | Check station 3CS1 | |
| <input type="checkbox"/> | VERIFY | Check station 3CS1 indicator (Area Secured) | BLINKS ONCE |
| <input type="checkbox"/> | Check for acceptance of Test Attempt to Sweep with Gate open fail | | |

1.4 Test of Sweep of Zone 4Z2

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|--------------------------|-----------------|---|--------------------|
| | CLOSE | Gates 4GI1-I&O, 4GE3, 4EL1, 4ED1 and 5GS1-I&O | |
| <input type="checkbox"/> | VERIFY | Gates 4GI1-I&O, 4GE3, 4EL1, 4ED1 and 5GS1-I&O are | CLOSED |
| | RESET | Gates 4EL1, and 4ED1 | |
| <input type="checkbox"/> | VERIFY | Gates 4EL1, and 4ED1 are | RESET |
| | PLACE | Peer 9 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 9 is in Controlled Access | MODE 16 |
| | ACTIVATE | Check station 4CS5 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS5 indicator (Area Secured) | BLINKS ONCE |
| | ACTIVATE | Check station 4CS4 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS4 indicator (Area Secured) | BLINKS ONCE |
| | ACTIVATE | Check station 4CS3 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS3 indicator (Area Secured) | BLINKS ONCE |
| | ACTIVATE | Check station 4CS1 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS1 indicator (Area Secured) | BLINKS ONCE |
| | ACTIVATE | Check station 4CS2 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS2 indicator (Area Secured) | ON |
| | EXIT | Gate 4GE3 with Simultaneous Release , leaving 1 ACG Personnel inside | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 4Z2 | SWEPT |
- Check for acceptance of Test of Sweep of Zone 4Z2**

1.5 Test Illegal exit through gate drops Sweep

- | | | | |
|--------------------------|---------------|--|------------------|
| | OPEN | Gate 4GE3 without Simultaneous Release and Exit | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 4Z2 | NOT SWEPT |
| | CLOSE | Gate 4GE3 | |
- Check for acceptance of Test Illegal exit through gate drops Sweep**

1.6 Test Attempt to Sweep with Gate open fail

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|--------------------------|---------------|---|----------------|
| | CLOSE | Gates 4GI1-I&O, 4GE3, 4EL1, 4ED1 and 5GS1-I&O | |
| <input type="checkbox"/> | VERIFY | Gates 4GI1-I&O, 4GE3, 4EL1, 4ED1 and 5GS1-I&O are | CLOSED |
| | RESET | Gates 4EL1, and 4ED1 | |
| <input type="checkbox"/> | VERIFY | Gates 4EL1, and 4ED1 are | RESET |
| | PLACE | Peer 9 in Mode 16 | |
| <input type="checkbox"/> | VERIFY | Peer 9 is in Controlled Access | MODE 16 |
- OPEN** Gate **4GE3** and **Hold open**
- | | | | |
|--------------------------|-----------------|--------------------------------|------------------|
| | ACTIVATE | Check station 4CS5 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS5 does | NOT BLINK |
- CLOSE** Gate **4GE3**
- | | | | |
|--------------------------|-----------------|---|--------------------|
| | ACTIVATE | Check station 4CS5 | |
| <input type="checkbox"/> | VERIFY | Check station 4CS5 indicator (Area Secured) | BLINKS ONCE |
- Check for acceptance of Test Attempt to Sweep with Gate open fail**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____