

*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

4.120.8.d 8 O’Clock (PEER 17) Sweep Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.8		

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

4.120.8.d 8 O’Clock (PEER 17) Sweep 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 To Sweep Zone 7Z1**
- CLOSE** Gates **7GS1-I/O, 7EL1, and 7GI1**
 - VERIFY** Gates **7GS1-I/O, 7EL1, and 7GI1** are **CLOSED**
 - RESET** Gate **7EL1**
 - VERIFY** Gate **7EL1** **RESET**
 - PLACE** **Peer 17 in Mode 16**
 - VERIFY** **Peer 17 is in Controlled Access** **MODE 16**
 - ACTIVATE** Check station **7CS1**
 - VERIFY** Check station **7CS1** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **7CS2**
 - VERIFY** Check station **7CS2** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **7CS3**
 - VERIFY** Check station **7CS3** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **7CS4**
 - VERIFY** Check station **7CS4** indicator (**Area Secured**) **ON**

 - EXIT** Gate **7GE1** with **Simultaneous Release**
 - VERIFY** MCR sees Zone **7Z1** **SWEPT**

 - Check for test acceptance to Sweep Zone 7Z1**

- 1.2 To Sweep Zone 8Z1**
- CLOSE** Gates **8ED1 and 8GE1**
 - VERIFY** Gates **8ED1 and 8GE1** are **CLOSED**
 - PLACE** **Peer 17 in Mode 16**
 - VERIFY** **Peer 17 is in Controlled Access** **MODE 16**
 - ACTIVATE** Check station **8XCS1**
 - VERIFY** Check station **8XCS1** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8XCS2**
 - VERIFY** Check station **8XCS2** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8XCS3**
 - VERIFY** Check station **8XCS3** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8XCS4**
 - VERIFY** Check station **8XCS4** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8XCS5**
 - VERIFY** Check station **8XCS5** indicator (**Area Secured**) **ON**

 - EXIT** Gate **8GE1** with **Simultaneous Release**
 - VERIFY** MCR sees Zone **8Z1** **SWEPT**

 - Check for test acceptance to Sweep Zone 8Z1**

- 1.3 To Sweep Zone 8Z2**
- CLOSE** Gates **8GE2, 8MD1, 8EL1, 8ED2** and **9GS1-I&O**
 - VERIFY** Gates **8GE2, 8MD1, 8EL1, 8ED2** and **9GS1-I&O** are **CLOSED**
 - RESET** Gate **8EL1, 8ED2**
 - VERIFY** Gate **8EL1, 8ED2** are **RESET**
 - PLACE** **Peer 17** in **Mode 16**
 - VERIFY** **Peer 17** is in **Controlled Access** **MODE 16**
 - VERIFY** MCR sees **Zone 8Z2** **NOT SWEPT**
 - ACTIVATE** Check station **8CS6**
 - VERIFY** Check station **8CS6** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8CS5**
 - VERIFY** Check station **8CS5** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8CS3**
 - VERIFY** Check station **8CS3** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8CS4**
 - VERIFY** Check station **8CS4** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8CS2**
 - VERIFY** Check station **8CS2** indicator (**Area Secured**) **BLINKS ONCE**
 - ACTIVATE** Check station **8CS1**
 - VERIFY** Check station **8CS1** indicator (**Area Secured**) **ON**

 - EXIT** Gate **8GE2** with **Simultaneous Release**
 - VERIFY** MCR sees **Zone 8Z2** **SWEPT**

 - Check for test acceptance to Sweep Zone 8Z2**

1.4 Test of retention of sweep with legal opening of gate 7GS1-I with Peer 7 in CA, Mode 16 and Peer 17 in CA Mode 16 and loss of sweep with illegal opening of gate 7GS1-I.

- PLACE** Peers **7 & 17** in **Controlled Access**
- VERIFY** **Peer 7** is in **MODE 16**
- VERIFY** **Peer 17** is in **MODE 16**
- VERIFY** The warning lights and **LED** message: **Stop Call MCR for Access X-7400 Stop** on both sides of the gate are **ON**
- VERIFY** The warning light on both sides of gate **7GS1-O** indicate: **Call MCR for Crossover Amber** **ON**
- SWEEP** **Zone 6Z2**
- VERIFY** MCR sees **Zone 6Z2** **SWEPT**
- SWEEP** **Zone 7Z1**
- VERIFY** MCR sees **Zone 7Z1** **SWEPT**
- VERIFY** **7GS1** gatebox lights are as follows:
 - Area Secured (S11) Amber ON**
 - Area Secured (S10) Amber ON**
- OPEN** Gate **7GS1-I** with **Simultaneous Release**
- VERIFY** MCR sees **Zone 7Z1** **SWEPT**
- VERIFY** MCR sees **Zone 6Z2** **SWEPT**
- VERIFY** MCR sees **Peer 7** is in **MODE 16**
- VERIFY** MCR sees **Peer 17** is in **MODE 16**

1.6 Test of retention of sweep with legal opening of gate 7GS1-I with Peer 7 in CA, Mode 17 and Peer 17 in CA Mode 17 and loss of sweep with illegal opening of gate 7GS1-I.

- | | | | |
|--------------------------|---------------|--|------------------|
| | PLACE | Peers 7 & 17 in Controlled Access, Mode 17 | |
| <input type="checkbox"/> | VERIFY | Peer 7 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | Peer 17 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message on both sides of the gate indicate: | |
| | | Call MCR for Crossover Amber | ON |
| | SWEEP | Zone 6Z2 | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 6Z2 | SWEPT |
| | SWEEP | Zone 7Z1 | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 7Z1 | SWEPT |
| <input type="checkbox"/> | VERIFY | 7GS1 gatebox lights are as follows: | |
| | | Area Secured (S11) Amber | ON |
| | | Area Secured (S10) Amber | ON |
| | OPEN | Gate 7GS1-I with Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 7Z1 | SWEPT |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 6Z2 | SWEPT |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 7 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 17 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | 7GS1 gatebox lights are as follows: | |
| | | Area Secured (S11) Amber | ON |
| | | Area Secured (S10) Amber | ON |
| | CLOSE | Gate 7GS1-I | |
| | OPEN | Gate 7GS1-I with without Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 7Z1 | NOT SWEPT |
| <input type="checkbox"/> | VERIFY | MCR sees Zone 6Z2 | NOT SWEPT |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 7 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | MCR sees Peer 17 is in | MODE 17 |
| <input type="checkbox"/> | VERIFY | 7GS1 gatebox lights are as follows: | |
| | | Area Secured (S11) Amber | OFF |
| | | Area Secured (S10) Amber | OFF |
| | CLOSE | Gate 7GS1-I | |
- Check for test acceptance of retention of sweep with legal opening of gate 7GS1-I with Peer 7 in CA, Mode 17 and Peer 17 in CA, Mode 17 and loss of sweep with illegal opening of gate 7GS1-I.

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____