

*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.d U-Upstream & V-Target (PEER 23) Sweep 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.d U-Upstream & V-Target (PEER 23) Sweep 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: \_\_\_\_/\_\_\_\_/\_\_\_\_

**1.1 Test of Sweep of U-Up**

- |                          |                 |                                                                                   |                    |
|--------------------------|-----------------|-----------------------------------------------------------------------------------|--------------------|
| <input type="checkbox"/> | <b>RESET</b>    | Gate <b>UGI1</b>                                                                  |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Gate <b>UGI1</b> is                                                               | <b>RESET</b>       |
|                          | <b>PLACE</b>    | <b>Peer 23</b> in <b>Mode 16</b>                                                  |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | <b>Peer 23</b> is in <b>Controlled Access</b>                                     | <b>MODE 16</b>     |
|                          | <b>ACTIVATE</b> | Check station <b>U-UpCS1</b>                                                      |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Check station <b>U-UpCS1</b> indicator ( <b>Area Secured</b> )                    | <b>BLINKS ONCE</b> |
|                          | <b>ACTIVATE</b> | Check station <b>U-UpCS2</b>                                                      |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Check station <b>U-UpCS2</b> indicator ( <b>Area Secured</b> )                    | <b>BLINKS ONCE</b> |
|                          | <b>ACTIVATE</b> | Check station <b>U-UpCS3</b>                                                      |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Check station <b>U-UpCS3</b> indicator ( <b>Area Secured</b> ) remains            | <b>ON</b>          |
|                          | <b>RESET</b>    | Gate <b>UGE1</b> from <b>MCR</b>                                                  |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Gate <b>UGE1</b> is                                                               | <b>RESET</b>       |
|                          | <b>EXIT</b>     | Gate <b>UGE1</b> with <b>Sim. Rel.</b> leaving <b>one</b> personnel <b>inside</b> |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | <b>MCR</b> sees <b>Zone U-Up</b>                                                  | <b>SWEEP GOOD</b>  |

- Check for acceptance of Test of Sweep of U-Up

**1.2 Test of Illegal Exit from U-Up Drops the Sweep**

- |                          |               |                                      |                 |
|--------------------------|---------------|--------------------------------------|-----------------|
| <input type="checkbox"/> | <b>EXIT</b>   | <b>UGE1</b> without <b>Sim. Rel.</b> |                 |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>MCR</b> sees <b>U-Up sweep</b> is | <b>NO SWEEP</b> |

- Check for acceptance of Test of Illegal Exit from U-Up Drops the Sweep

**1.3 Test of Sweep of V-Target [Omit This Test Until Further Notice]**

- |                          |                 |                                                                |                    |
|--------------------------|-----------------|----------------------------------------------------------------|--------------------|
| <input type="checkbox"/> | <b>RESET</b>    | Gate <b>VTGE</b>                                               |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Gate <b>VTGE</b> is                                            | <b>RESET</b>       |
|                          | <b>PLACE</b>    | <b>Peer 23</b> in <b>Mode 16</b>                               |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | <b>Peer 23</b> is in <b>Controlled Access</b>                  | <b>MODE 16</b>     |
|                          | <b>ACTIVATE</b> | Check station Button <b>V-TgCS1</b>                            |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Check station <b>V-TgCS1</b> indicator ( <b>Area Secured</b> ) | <b>BLINKS ONCE</b> |
|                          | <b>ACTIVATE</b> | Check station <b>V-TgCS2</b> with <b>#7</b> Sweep key          |                    |
| <input type="checkbox"/> | <b>VERIFY</b>   | Check station <b>V-TgCS2</b> indicator ( <b>Area Secured</b> ) | <b>ON</b>          |
| <input type="checkbox"/> | <b>VERIFY</b>   | <b>MCR</b> sees <b>Zone V-Target</b>                           | <b>SWEEP GOOD</b>  |

- Check for acceptance of Test of Sweep of V-Target [Omitted Until Further Notice]

**1.4 Test of Illegal Exit from V-Target Drops the Sweep [Omitted Until Further Notice]**

**OPEN** VTGE gate with **Simultaneous Release** and #6 CA key  
**ABORT** Simultaneous Release **with** gate **open**  
 **VERIFY** MCR sees V-Target **sweep** is **NO SWEEP**

**Check for acceptance of Test of Illegal Exit from V-Target Drops the Sweep [Omitted Until Further Notice]**

**1.5 Test of Sweep of V-Target from Peer 23 Cabinets in Bldg. 921**

**PLACE** **PEER 23 in Controlled Access (MODE 16)**  
 **VERIFY** **PEER 23 is in Controlled Access** **MODE 16**

**OPEN** **Peer 23 Div A cab in bldg 921**  
**PRESS** CS-1 button for V-Tgt on remote VTGE1 box  
**PRESS** CS-2 button for V-Tgt on remote VTGE1 box  
 **VERIFY** MCR indicates V-Tgt Div A mo Mtce page **SWEEP GOOD**

**SECURE** Peer 23 Div A cabinet  
 **VERIFY** Peer 23 Div A cabinet is **SECURED**

**OPEN** **Peer 23 Div B cab in bldg 921**  
**PRESS** CS-1 button for V-Tgt on remote VTGE1 box  
**PRESS** CS-2 button for V-Tgt on remote VTGE1 box  
 **VERIFY** MCR indicates V-Tgt Div A on Mtce page **SWEEP GOOD**

**SECURE** Peer 23 Div B cabinet  
 **VERIFY** Peer 23 Div B cabinet is **SECURED**

**VERIFY** **MCR sees V-Tgt Divs: A**  **and**  **on Mtce page** **SWEEP GOOD**

**VERIFY** **MCR sees V-Tgt on Accel Access page** **SWEEP GOOD**

**Check for acceptance of Sweep of V-Target from Peer 23 Cabinets in Bldg. 921**

**END OF TEST PROCEDURE**

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_