

*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

4.56.ae U Downstream Sweep Checklist

C-A-OPM Procedures in which this Attachment is used.		
4.56		

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

P. Ingrassia

U DOWNSTREAM SWEEP CHECKLIST

Team leader _____ Operator 2 _____

Time: _____ Date: _____

Warning:

ONCE A SWEEP IS COMPLETE, ANY WORKER LEFT IN THE ENCLOSURE MUST HAVE A CA(EB005) KEY.

IF any personnel are encountered during the sweep, **THEN** determine whether their work will be completed in a short time. **IF** the work will take a long time, **THEN** contact the OC to see if the sweep should be aborted or the workers asked to leave to obtain a CA(EB005) key. **IF** the work will be completed in a **SHORT** time, **THEN** write the name(s) of the workers at the end of the checklist and verify that they leave the enclosure **WITH** the sweep team.

Prerequisites

- Two persons to perform the sweep
- U Downstream Sweep Checklist for C-A-OPM-ATT 4.56.ae (2 pages)
- Keys: Controlled Access (EB005), Sweep/Reset (EB004), AA256A
- TLD, Alarming (chirping) Self Reading Dosimeter (SRD)
- Portable Radio, Flashlight

Check

- ___ 1. Team Leader contacts MCR to verify that U Downstream is on Controlled Access AND that gate UG11 is RESET.
- ___ 2. IF UG11 was found to be NOT RESET (step 1), THEN abort the sweep; RESET it and continue.

Note:

To RESET UG11, U Upstream must be swept per C-A-OPM-ATT 4.56.x

- ___ 3. Sweep Team goes to U Downstream gate (UGE2).
- ___ 4. Team Leader requests simultaneous release from MCR.

Note:

The Operator in the MCR must hold the UGE2 gate release on the PanelView until the gate is closed.

- ___ 5. Team leader opens UGE2 gate by turning the CA(EB005) key in the OPEN key switch while Operator in MCR presses simultaneous release for gate UGE2.
- ___ 6. Team Leader radios operator in MCR to report they have entered and the gate is closed.
- ___ 7. Sweep Team walks through the labyrinth to the W line.
- ___ 8. Sweep Team crosses under the **W** line and walks downstream to the end of the **Z** line.
- ___ 9. Operator 2 starts the sweep by resetting check station #1 at the extreme downstream end of the Z line with the S/R(EB004) key in the SWEEP key switch.
- ___ 10. Observe the AREA SECURED amber lamp light for two seconds.
- ___ 11. Sweep Team sweeps upstream to the UGE3 labyrinth.
- ___ 12. Team Leader stands static watch in the Z line at the entrance to the UGE3 labyrinth.

Note:

Operators will use the swivel-arm mounted on the security door to prevent it from closing behind them.

- ___13. Operator 2 walks through security door to UGE3 at the end of the labyrinth.
- ___14. Operator 2 resets check station #2 at inside of UGE3 with the S/R(EB004) key in the SWEEP key switch.
- ___15. Observe the AREA SECURED amber lamp light for two seconds.
- ___16. Operator 2 sweeps out the labyrinth, through the security door, to the Z line and rejoins Team Leader. Operator 2 makes sure the security door is closed after passing through.
- ___17. Sweep Team sweeps upstream to the Crotch where U and W lines are joined.
- ___18. Team Leader stands static watch at U/W crotch.
- ___19. Operator 2 walks downstream in the W line to the end at gate UED1.
- ___20. Operator 2 resets gate UED1 with the S/R(EB004) key in the RESET key switch.
- ___21. Observe the GATE SECURED amber lamp light if the gate was not previously reset.
- ___22. Operator 2 resets check station #3 inside UED1 with the S/R(EB004) key in the SWEEP key switch.
- ___23. Observe the AREA SECURED amber lamp light for two seconds.
- ___24. Operator 2 sweeps out the labyrinth to the W line and checks on top shield blocks.
- ___25. Operator 2 sweeps upstream to the U/W crotch and rejoins team leader.
- ___26. Operator 2 walks upstream in the U line to the UGI1 gate.
- ___27. Operator 2 resets check station #4 at UGI1 with the S/R(EB004) key in the SWEEP key switch.
- ___28. Observe the AREA SECURED amber lamp light for two seconds.
- ___29. Observe the AREA SECURED amber lamp is lit for U Upstream.
- ___30. Operator 2 sweeps downstream to the U/W crotch and rejoins Team Leader.
- ___31. Sweep Team sweeps out the labyrinth to gate UGE2.
- ___32. Operator 2 ends the sweep by resetting check station #5 inside UGE2 with the S/R(EB004) key in the SWEEP key switch. Observe AREA SECURED lamp will light.

Note:

The Operator in the MCR must hold the UGE2 gate release on the PanelView until the gate is closed.

- ___33. Team Leader calls an operator in the MCR for a simultaneous release before opening UGE2.
- ___34. Sweep Team sweeps through UGE2 after operator in MCR gives the release.
- ___35. Team Leader radios operator in MCR to report UGE2 is closed.
- ___36. Observe the AREA SECURED amber lamp will remain lighted.
- ___37. Team Leader confirms with an operator in the MCR that the sweep is OK.
- ___38. Sweep Team (at conclusion of all sweeps) returns to MCR.
- ___39. Capture CA (EB005) and S/R (EB004) keys in the key tree.
- ___40. Reset Gates UGE3 and UGE2 in MCR.
- ___41. Confirm Gates UGE3 and UGE2 are reset using PanelView.
- ___42. Team Leader files completed checklist in Completed Sweep Checklist Binder.