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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.w SEB Switchyard Sweep Checklist

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

SEB SWITCHYARD SWEEP CHECKLIST

(Team Leader) _____ (Operator 2) _____

Time: _____ Date: _____

Warning:

If any personnel are encountered during the sweep, **then** they will remain with the sweeper or the sweep shall be aborted. **If** the sweep is aborted **then** the person(s) must be escorted out of the cave by unlocking and opening the Switchyard East Gate.

Prerequisites

- Two Operators to perform the sweep
- BNL keys Nos. 11, AA256A
- C-A-OPM-ATT. 4.56.w — SEB SWITCHYARD SWEEP CHECKLIST (2 pages)
- Switchyard set to Controlled Access by simultaneous operation of BNL6 keyswitch & MCR_2-1U2 push-button
- TLD, Alarming (chirping) Self Reading Dosimeter (SRD)
- Verify, at MCR_2-1U10, that the Switchyard Downstream Escape Gate is NOT RESET

Check

- _____ 1. Team Leader and Operator 2 enter the Switchyard East Gate (BNL-11 key) and close the door behind.
- _____ 2. Team Leader and Operator 2 turn left and proceed to the upstream Switchyard Cave wall.
- _____ 3. Team Leader crosses under the beamlines and goes to the upstream beam left corner of the cave.
- _____ 4. Team Leader and Operator 2 sweep down stream while staying abreast of each other.
- _____ 5. Team Leader halts at the entrance to the labyrinth for the Switchyard Upstream Escape Gate (opposite DD9).
- _____ 6. Operator 2 sweeps downstream to CP185, crosses under the B/C line at CP185, and positions themselves to stand static watch between CP185 and AD5 (beam left of B/C line).
- _____ 7. Team Leader, sweeps any personnel encountered out the gate, and proceeds up the labyrinth to the Switchyard Upstream Escape Gate.
- _____ 8. Team Leader locks and resets Switchyard Upstream Escape Gate by turning the BNL-11 key and a simultaneously depressing the reset push-button (ACS 2416 box).
- _____ 9. Team Leader verifies that the "Bolt Switch" (clear), and "Reset" (amber) lights are lit.
- _____ 10. Team Leader returns down the labyrinth to the Switchyard Cave and contacts Operator 2.
- _____ 11. Team Leader sweeps downstream along the Switchyard west wall (beam left of D line) and searches to the D line penetration through the shielding.
- _____ 12. Team Leader returns upstream, crosses under the D line at DD14 and searches the beam right side of the D line to the penetration through the shielding.
- _____ 13. Team Leader returns upstream to the passageway in the shielding (beam right of DD14), and passes through the shielding to contact Operator 2, and to stand static watch at AD7 and AD8 (beam left of A line).

CONTINUED ON REVERSE SIDE

- _____ 14. Operator 2 sweeps downstream, crosses under the B/C beamline at CQ8 and continues to

the junction of the Switchyard Cave and the Switchyard East Gate labyrinth to stand static watch.

- _____ 15. Team Leader sweeps under the A, and B/C lines, up the Switchyard East Gate Labyrinth to the Switchyard East Gate and sweeps out the gate, any personnel that were encountered.
- _____ 16. Team Leader locks and resets the Switchyard East Gate by turning the BNL-11 key while simultaneously depressing the reset push-button (ACS 2216 box)
- _____ 17. Team Leader verifies that the "Bolt Switch" (clear), and "Reset" (amber) lights are lit.
- _____ 18. Team Leader rejoins Operator 2 in the Switchyard Cave.
- _____ 19. Operator 2 crosses under the B/C line at CQ8.
- _____ 20. Team Leader (beam right of B/C) and Operator 2 (beam left of B/C) sweep downstream on either side of the B/C line.
- _____ 21. Operator 2 crosses under the B/C line at BV313/CV314 to rejoin Team Leader.
- _____ 22. Team Leader and Operator 2 sweep downstream and search the downstream end of the Switchyard Cave.
- _____ 23. Team Leader and Operator 2 cross under the B line at BC1 collimator and exit the cave through the Switchyard Downstream Escape Gate labyrinth.
- _____ 24. Team Leader and Operator 2 sweep through the Switchyard Downstream Escape Gate.
- _____ 25. Team Leader locks and resets the Switchyard Downstream Escape Gate using the BNL-11 key (ACS 2955 box).
- _____ 26. Team Leader verifies that the "Bolt Switch" light (clear) and the Reset light (amber) are lit.
- _____ 27. Team Leader and Operator 2 exit the labyrinth through the "B Target Upstream Gate"
- _____ 28. If B Line was found to be secured in Step 1, THEN sweep labyrinth and THEN Reset "B Target Upstream" gate using BNL 11 key.
- _____ 29. Team Leader verifies with MCR that Switchyard gates are reset for beam by viewing indicators at:

| | |
|------------|-----------------------------------|
| MCR_2-1U8 | Switchyard East Gate |
| MCR_2-1U9 | Switchyard Upstream Escape Gate |
| MCR_2-1U10 | Switchyard Downstream Escape Gate |
| MCR_2-1U11 | Switchyard Cave |
- _____ 30. Team Leader inserts but does not capture BNL 11 key in the Reset/Enable Capture Key Panel at MCR_2 or give key to O.C.
- _____ 31. File the checklist in the Completed Sweep Checklist Binder.