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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.as RHIC Zone 8z2 Sweep Checklist

Text Pages 2 through 4

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, W. MacKay

C-A-OPM-ATT 4.56.as

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Revision 04  
 June 10, 2008

## RHIC Zone 8z2 Sweep Checklist

Team Leader (TL) \_\_\_\_\_ Sweeper#2 (S2) \_\_\_\_\_

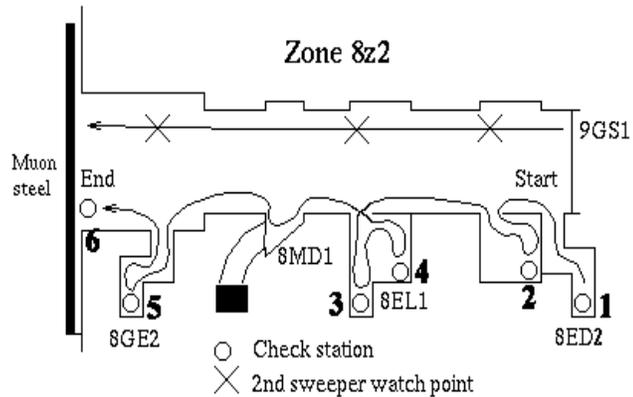
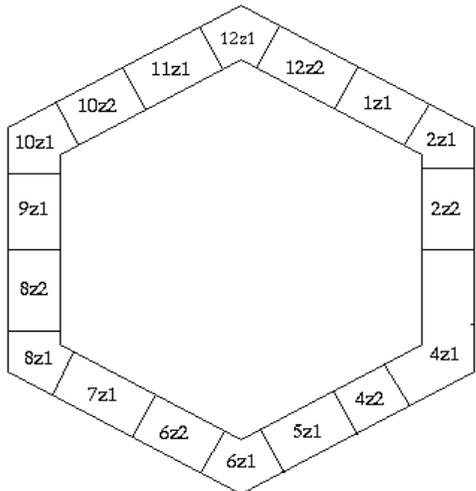
Time: \_\_\_\_\_ Date: \_\_\_\_\_

**Warning:**

**IF** any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

**Prerequisites**

- Two persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- RHIC Zone 8z2 Sweep Checklist (three pages)
- Required Tools: Walkie-talkies, Flashlights,
- TLD
- Approved padlocks (3) for 8MD1 gate and Caged Area Doors
- All Doors closed THEN 8z2 set to Controlled Access
- Keys: Sweep Reset S/R015, Controlled Access CA014, padlock RG184 (MD GATE/North Area Security)



**Note:**

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the “lower” cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I-05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17). References are for inside locations and are visible only by the Team Leader.

**CONTINUED ON REVERSE SIDE**

check

- \_\_\_1. Sweep team enters 8z2 after TL requests simultaneous release from MCR (8GE2 is the recommended entry gate).
- \_\_\_2. TL opens 8GE2 gate by turning the CA014 key clockwise, in the Controlled Access keyswitch, while Operator in MCR presses simultaneous release for 8GE2.

**Note:**

8MD1 gate **MUST** be reset before the sweep begins.

- \_\_\_3. TL verifies 8MD1 is padlocked and then reset by looking for the amber RESET lamp lighted on the 8MD1 security box.
- \_\_\_4. IF the gate is not padlocked, THEN TL shall open the gate, walk to the orange door at the end of the tunnel, sweep back to 8MD1, close and padlock the gate, and RESET the gate by turning the S/R015 key in the RESET keyswitch on the 8MD1 security box. TL observes amber RESET lamp light.
- \_\_\_5. Sweep team walks Clockwise (CW) to 9GS1 at the far end of the 8z2 zone (TL inside, S2 outside).
- \_\_\_6. S2 stands static watch at 9GS1.
- \_\_\_7. TL walks down labyrinth to 8ED2 door.
- \_\_\_8. TL resets door 8ED2 using the S/R015 key in the RESET keyswitch .
- \_\_\_9. TL observes the yellow RESET lamp is lighted.
- \_\_\_10. TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP keyswitch (8CS6).
- \_\_\_11. TL observes SWEEP lamp blink once.
- \_\_\_12. TL sweeps out the labyrinth and rejoins S2.
- \_\_\_13. TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays. S2 checks that Fan Vent Barrier is in place.
- \_\_\_14. S2 returns to the outside 9GS1 and stands static watch.
- \_\_\_15. TL goes to check station 8CS5 in the 1009B Alcove.
- \_\_\_16. TL sets second check station (8CS5) by turning S/R015 key in the SWEEP keyswitch.
- \_\_\_17. TL observes SWEEP lamp blink once.
- \_\_\_18. TL searches all the equipment racks, then sweeps out the alcove.
- \_\_\_19. TL rejoins S2.
- \_\_\_20. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- \_\_\_21. TL stops to check the Exhaust Fan Vent Barrier at I-08Q17.
- \_\_\_22. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- \_\_\_23. S2 stands static watch at the electrical services alcove at I-08Q13.
- \_\_\_24. TL goes to the ladder at 8EL1 in the alcove 1009A.
- \_\_\_25. IF there is no mirror to verify no one is on the landing at the top of the ladder, THEN TL must climb the ladder to verify no one is on the landing and to check that 8EL1 door is closed.
- \_\_\_26. TL resets door 8EL1 using the S/R015 key in the RESET keyswitch at the bottom of the ladder.
- \_\_\_27. IF 8EL1 will not reset, THEN TL climbs the ladder, closes 8EL1, then repeats step 26.
- \_\_\_28. TL observes RESET lamp lights after reset.
- \_\_\_29. TL sets third check station (8CS3) by turning S/R015 key in the SWEEP keyswitch.
- \_\_\_30. TL observes SWEEP lamp blink once.
- \_\_\_31. TL searches all the equipment racks, and sweeps to check station 8CS4 in the far corner of the alcove.
- \_\_\_32. TL sets fourth check station (8CS4) by turning S/R015 key in the SWEEP keyswitch.
- \_\_\_33. TL observes SWEEP lamp blink once.
- \_\_\_34. TL sweeps out the alcove, and rejoins S2.
- \_\_\_35. TL confirms fan vent barrier is in place on the far side of the tunnel (above S2) and overhead barricade is in place.
- \_\_\_36. Sweep team sweeps Counter Clockwise (CCW) around RHIC.

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- \_\_\_37. Sweep Team stops to check the inside and outside Exhaust Fan Vent Barriers at I-08DU7.
- \_\_\_38. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- \_\_\_39. Sweep team checks electrical alcoves at I-08D5 and confirms overhead barricade is in place.
- \_\_\_40. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- \_\_\_41. S2 stands static watch opposite the labyrinth leading to 8GE2.
- \_\_\_42. TL walks down labyrinth to gate 8GE2.
- \_\_\_43. TL sets fifth check station 8CS2 by turning the S/R015 key in the SWEEP keyswitch on 8GE2-I.
- \_\_\_44. TL observes the SWEEP lamp blink once.
- \_\_\_45. TL sweeps up the labyrinth and joins S2.
- \_\_\_46. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- \_\_\_47. Sweep Team checks inner and outer fan vent barriers at I8Q3WTC.
- \_\_\_48. TL stands static watch at I8Q3WTC.
- \_\_\_49. S2 checks overhead conduit at O-08Q3.
- \_\_\_50. S2 checks fan vent barrier at O-08Q2.
- \_\_\_51. S2 sweeps around the shielding blocks, down the "outside" stairs, to the dead zone created by the PHENIX muon steel. S2 searched the dead zone with a flashlight.
- \_\_\_52. S2 climbs up the ladder to the area beyond the shield blocks next to the 8-DX magnet and sweeps the area outside the cage. IF the cage door is unlocked, THEN they will sweep the cage, exit, and padlock the door.
- \_\_\_53. S2 climbs down the ladder and sweeps back up the first ladder.
- \_\_\_54. S2 Sweeps the upper deck area around the shield blocks between the O-08D0 and 8-DX magnets.
- \_\_\_55. S2 sweeps back around the shield blocks towards the 8GE2 labyrinth.
- \_\_\_56. S2 stands static watch opposite the 8GE2 labyrinth.
- \_\_\_57. TL sweeps down the "inside" wooden stairs to the dead zone created by the PHENIX muon steel. TL searches the dead zone with a flashlight.
- \_\_\_58. TL sweeps back up the wooden stairs checking the two (2) vent barriers, in front of them facing north, are in place.
- \_\_\_59. TL sweeps the upper deck area around the shielding blocks and around the ZDC between the I-08D0 and 8-DX magnets.
- \_\_\_60. TL sweeps, on the platform around the shield blocks, to the area outside of the cage at the 8-DX magnet. IF the cage door is unlocked, THEN they will go in, sweep the cage, exit, and padlock the door.
- \_\_\_61. TL ENDS SWEEP by turning the S/R015 key in the SWEEP keyswitch on 8CS1.
- \_\_\_62. TL observes the yellow AREA SECURED ("check station") lamp is lighted.
- \_\_\_63. TL sweeps back toward 8GE2 labyrinth and rejoins S2.
- \_\_\_64. Sweep Team sweeps to the 8GE2 labyrinth.
- \_\_\_65. Sweep Team sweeps down the labyrinth to 8GE2.
- \_\_\_66. TL contacts MCR for simultaneous release for gate 8GE2.
- \_\_\_67. Sweep Team sweeps out zone 8z2 through 8GE2.
- \_\_\_68. TL contacts MCR and confirms that gates are reset and 8z2 zone indicates sweep is good.

**Note:**

IF the AREA SECURED lamp is not lit, THEN contact MCR to verify the sweep is good.

- \_\_\_69. After returning keys to keytree in MCR, TL resets the 8GE2 gate using the RHIC PanelView in MCR.
- \_\_\_70. After verifying that all information is filled out completely, TL files the checklist in FY\_xx Sweep Log binder.