

*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.aj RHIC Zone 2z2 Sweep Checklist

Text Pages 2 through 4

| C-A OPM Procedures in which this Attachment is used. | | |
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Hand Processed Changes

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Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman Date

P. Ingrassia, W. MacKay

RHIC Zone 2z2 Sweep Checklist

Team leader (TL) _____ Sweeper#2 (S2) _____

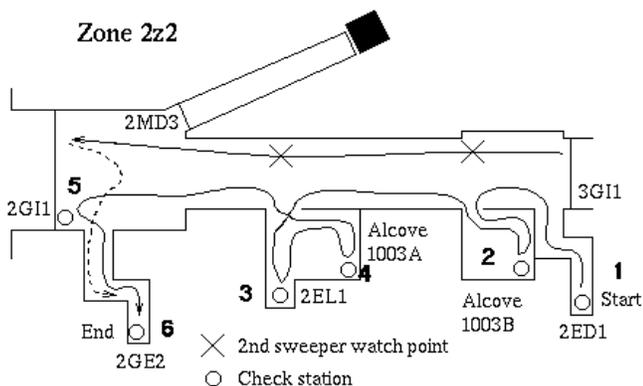
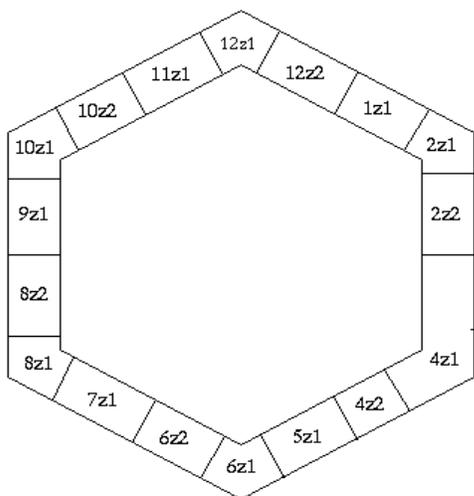
Time: _____ Date: _____

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 2z2 Sweep Checklist (three pages)
- Portable Radio, Flashlight
- Padlock for 2MD3 (one may be in place)
- TLD
- All Doors closed THEN 2Z2 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: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17).
References are for inside locations and are visible only by the Team Leader.

check

1. Sweep team enters 2z2 after TL requests simultaneous release from MCR (2GE2 is the recommended entry gate).

CONTINUED ON REVERSE SIDE

- ___2. TL opens 2GE2 gate by turning the CA014 key clockwise, in the Controlled Access keyswitch, while Operator in MCR presses simultaneous release for 2GE2.
- ___3. Sweep Team passes through 2GE2 gate.

Note:

Door 2MD3 must be reset before the sweep may begin.

- ___4. Sweep team walks to 2MD3.
- ___5. IF 2MD3 is not reset AND the door is not padlocked, THEN TL opens the door and shines the flashlight down the tunnel to search for persons. IF any object in the tunnel blocks the view, THEN the TL shall enter and verify that no one is inside.
- ___6. TL closes and padlocks the door and resets the door using the S/R015 key in the RESET keyswitch.
- ___7. Observe the yellow RESET lamp is lighted.
- ___8. TL crosses under the accelerators to the inner side of tunnel while S2 remains to the outer side.
- ___9. Sweep team walks to 3GI1 at the far (3 o'clock) end of the 2z2 zone.
- ___10. S2 stands static watch at 3GI1.
- ___11. TL walks down labyrinth to 2ED1 door.
- ___12. TL resets door 2ED1 using the S/R015 key in the RESET keyswitch .
- ___13. TL observes the yellow RESET lamp is lighted.
- ___14. TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP keyswitch (2CS6).
- ___15. TL observes AREA SECURED lamp blink once.
- ___16. TL confirms overhead barrier is in place near 2ED1 door.
- ___17. TL sweeps out the labyrinth and rejoins S2.
- ___18. TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays.
- ___19. S2 returns to the outer side of tunnel and stands static watch.
- ___20. TL goes to check station (2CS5) in the 1003B Alcove.
- ___21. TL sets second check station (2CS5) by turning S/R015 key in the SWEEP keyswitch.
- ___22. TL observes AREA SECURED lamp blink once.
- ___23. TL searches all the equipment racks, sweeps out the alcove, and rejoins S2.
- ___24. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___25. TL stops to check the Exhaust Fan Vent Barrier at I-02Q17.
- ___26. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___27. S2 stands static watch at the electrical services alcove opposite I-02Q13.
- ___28. TL walks to the ladder at 2EL1 in alcove 1003A.
- ___29. 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 2EL1 door is closed.
- ___30. TL resets door 2EL1 using the S/R015 key in the RESET keyswitch at the bottom of the ladder.
- ___31. IF 2EL1 will not reset, THEN TL climbs the ladder, closes 2EL1, then repeats step 30.
- ___32. TL observes GATE RESET lamp lights after reset.
- ___33. TL sets third check station (2CS3) by turning S/R015 key in the SWEEP keyswitch.
- ___34. TL observes AREA SECURED lamp blink once.
- ___35. TL searches all the equipment racks in the alcove.
- ___36. TL goes to check station (2CS4) at the far corner of the alcove.
- ___37. TL sets fourth check station (2CS4) by turning S/R015 key in the SWEEP keyswitch.
- ___38. TL observes AREA SECURED lamp blink once.
- ___39. TL sweeps out the alcove and rejoins S2.
- ___40. TL confirms fan vent barrier is in place on far side of tunnel (above S2) and overhead barrier is in place.
- ___41. Sweep team sweeps Counter Clockwise (CCW) around RHIC.

CONTINUED ON NEXT SHEET

- ___42. TL stops to check the Exhaust Fan Vent Barriers at I-02D10.
- ___43. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___44. S2 checks overhead conduit at O-02Q9 with a flashlight.
- ___45. Team Leader checks Exhaust Fan Vent Barrier at I-02Q6.
- ___46. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___47. TL checks Exhaust Fan Access Door padlocks at I-02D5 (2EF1).
- ___48. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___49. TL checks Exhaust Fan Barrier next to S2WB1 – bake out switch box.
- ___50. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___51. Sweep team sweeps to gate 2GI1.
- ___52. IF not reset, TL resets 2GI1 gate using the S/R015 key in the RESET keyswitch on the 2GI1-I gate box.
- ___53. Observe the yellow GATE RESET lamp is lighted.
- ___54. TL sets fifth check station (2CS1) by turning S/R015 key in the SWEEP keyswitch.
- ___55. TL observes AREA SECURED lamp blink once.
- ___56. S2 crosses under the accelerators to join TL.
- ___57. Sweep Team sweeps out the labyrinth to gate 2GE2.
- ___58. TL ends sweep by turning S/R015 key in the SWEEP keyswitch at 2CS2.
- ___59. Observe the yellow AREA SECURED indicator remains lighted.
- ___60. TL contacts MCR for simultaneous release for gate 2GE2.
- ___61. Sweep Team sweeps out zone 2z2 through 2GE2.
- ___62. TL observes the yellow AREA SECURED lamp is lighted.
- ___63. TL contacts MCR and confirms that gates are reset and 2z2 zone indicates sweep is good.

Note:

IF the AREA SECURED and GATE RESET lamps are not lit, THEN contact MCR to verify sweep is good and gate(s) are reset.

- ___64. After returning keys to keytree in MCR, TL resets the RCA gate 2GE2 using the RHIC PanelView in the MCR.
- ___65. After verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.