

*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.ap RHIC Zone 6z2 Sweep Checklist

Text Pages 2 through 3

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>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

P. Ingrassia, W. MacKay

RHIC Zone 6z2 Sweep Checklist

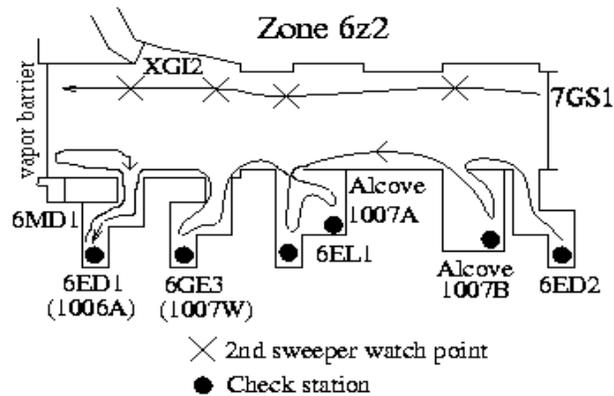
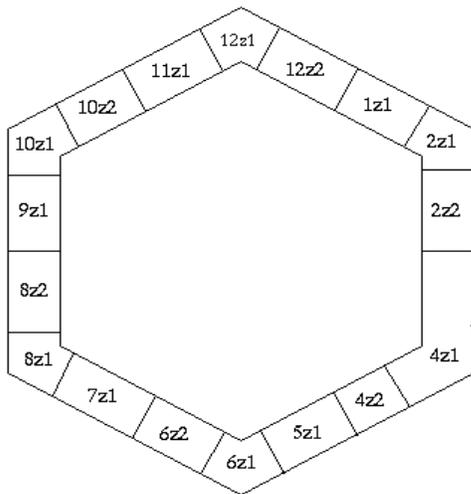
Team Leader (TL) _____ Sweeper#2 (S2) _____

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 6z2 Sweep Checklist (two pages)
- Required Tools: Portable Radio, Flashlight
- **X line sweep is good and XGI1 and XGI2 are reset.**
- TLD
- Approved Padlock for vapor barrier door (padlock may be in place).
- All Doors closed THEN 6z2 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.

check

- ___1. Sweep team enters 6z2 after TL requests simultaneous release from MCR (6GE3 is the recommended entry gate).
- ___2. TL opens 6GE3 gate by turning the CA014 key clockwise, in the Controlled Access key-switch, while Operator in MCR presses simultaneous release for 6GE3.
- ___3. Sweep team walks to 7GS1 at the far (7 o'clock) end of the 6z2 zone, TL on the inside, Sweeper#2 on the outside.
- ___4. S2 stands static watch at I07Q21 near gate 7GS1 (outside gate).
- ___5. TL walks down labyrinth and up stairs to 6ED2 door.
- ___6. TL resets door 6ED2 using the S/R015 key in the RESET key-switch.

CONTINUED ON REVERSE SIDE

- ___7. TL observes the yellow GATE RESET lamp is lighted.
- ___8. TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch at 6CS6.
- ___9. TL observes AREA SECURED lamp blink once.
- ___10. TL sweeps down stairs out the labyrinth and rejoins S2.
- ___11. TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays. S2 checks that vent barrier is in place.
- ___12. S2 returns to the outside of the tunnel and stands static watch.
- ___13. TL goes to check station 6CS5 in the 1007B Alcove.
- ___14. TL sets second check station (6CS5) by turning S/R015 key in the SWEEP key-switch.
- ___15. TL observes AREA SECURED lamp blink once.
- ___16. TL searches all the equipment racks, sweeps out the alcove, and rejoins S2.
- ___17. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___18. TL stops to check the Exhaust Fan Vent Barrier at I-06Q17.
- ___19. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___20. S2 stands static watch at the electrical services alcove opposite I06Q13.
- ___21. TL walks to the ladder at 6EL1 in alcove 1007A.
- ___22. 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 6EL1 door is closed.
- ___23. TL resets door 6EL1 using the S/R015 key in the RESET key-switch at the bottom of the ladder.
- ___24. IF 6EL1 will not reset, THEN TL climbs the ladder, closes 6EL1, then repeats step 23.
- ___25. TL observes GATE RESET lamp lights after reset.
- ___26. TL sets third check station (6CS3) by turning S/R015 key in the SWEEP key-switch.
- ___27. TL observes AREA SECURED lamp blink once.
- ___28. TL searches all the equipment racks.
- ___29. TL goes to check station 6CS4 at the far corner of the alcove.
- ___30. TL sets fourth check station (6CS4) by turning S/R015 key in the SWEEP key-switch.
- ___31. TL observes AREA SECURED lamp blink once.
- ___32. TL sweeps out the alcove and rejoins S2.
- ___33. TL confirms fan vent barrier is in place on the far side of the tunnel (above S2) and overhead barrier is in place.
- ___34. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___35. Sweep team checks padlocks on inner and outer Exhaust Fan Access Doors (6EF1/2) at I-06Q9.
- ___36. S2 stands static watch at I06D8.
- ___37. TL walks down labyrinth to gate 6GE3.
- ___38. TL sets fifth check station (6CS2) by turning S/R015 key in the SWEEP key-switch.
- ___39. TL observes AREA SECURED lamp blink once.
- ___40. TL sweeps up the labyrinth and joins S2.
- ___41. Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___42. Sweep team confirms overhead barriers are in place at I06D5.
- ___43. S2 verifies XGI2 is RESET and X line AREA SECURED.
- ___44. S2 crosses under the X line as sweep team continues to sweep Counter Clockwise (CCW) around RHIC.
- ___45. S2 stops and stands static watch at I6Q3WTC by crossing under to inside of accelerators.
- ___46. TL walks down labyrinth to 6ED1.
- ___47. TL resets 6ED1 using the S/R015 key in the RESET key-switch.
- ___48. TL observes GATE RESET lamp lights after reset.
- ___49. TL ENDS Sweep at check station (6CS1) by turning S/R015 key in the SWEEP key-switch.
- ___50. TL observes AREA SECURED lamp lights amber.
- ___51. TL sweeps up labyrinth and joins S2 (S2 crosses back under to go to outside of accelerators).
- ___52. Sweep team sweeps Counter Clockwise (CCW) around RHIC to the vapor barrier at the end of the tunnel .
- ___53. Sweep team checks Exhaust Fan Vent Barriers at 6DX (6AV1/2).
- ___54. TL unlocks padlock on vapor barrier door, opens the door, sweeps the platform on the other side of the vapor barrier, and closes and padlocks the door.
- ___55. Sweep Team walks CW back to 6GE3.
- ___56. TL contacts MCR for simultaneous release for gate 6GE3.
- ___57. Sweep Team sweeps out zone 6z2 through 6GE3.
- ___58. TL observes the yellow AREA SECURED lamp is lighted.
- ___59. TL contacts MCR and confirms that gates are reset and 6z2 zone indicates sweep is good.

<p><u>Note:</u> IF the AREA SECURED lamp is not lit, THEN contact MCR to verify sweep is good.</p>

- ___60. After returning keys to keytree in MCR, TL RESETS the RCA gate 6GE3 using the RHIC PanelView.
- ___61. After verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log.