

RHIC Zone 7z1 Sweep Checklist

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

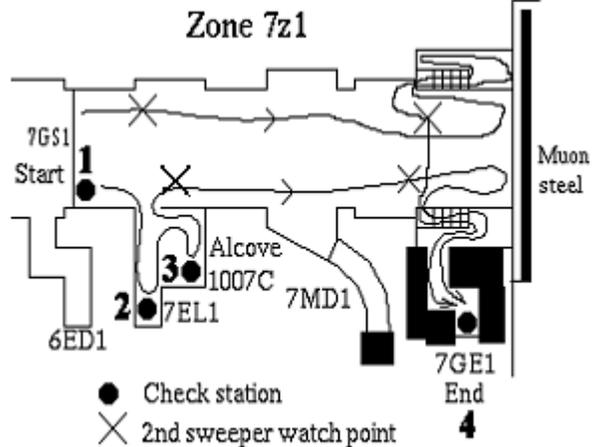
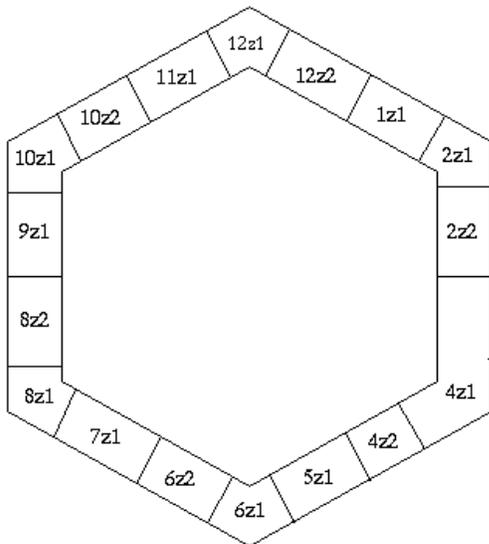
Time: _____ Date: _____

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 7z1 Sweep Checklist (two pages)
- Required Tools: Flashlights, **Walkie-talkies** (no phones at 7GE1),
- TLD, Hearing Protection
- Approved padlocks (3) for 7MD1 gate and Caged Area Doors
- All Doors closed THEN 7z1 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 TL.

check

- ___1. Sweep team goes to gate 7GE1, TL requests simultaneous release from MCR.
- ___2. TL opens 7GE1 gate by turning the CA014 key clockwise, in the Controlled Access key-switch, while Operator in MCR presses simultaneous release for 7GE1.

Note:

7MD1 gate **MUST** be reset before the sweep begins.

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- ___3. Before start of sweep, sweep team walks CCW to 7MD1 where TL verifies 7MD1 gate is padlocked and reset. IF the gate is not padlocked, THEN sweep the area, padlock the gate, and reset the gate by turning the S/R015 key in the RESET key-switch on the gate security box. TL observes amber RESET lamp light.
- ___4. Sweep Team walks to 7GS1 gates (TL inside and Sweeper#2 outside).
- ___5. TL resets 7GS1 gate by turning S/R015 key in the RESET key-switch at 7GS1-I.
- ___6. TL observes RESET lamp light.
- ___7. TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch 7CS1.
- ___8. TL observes AREA SECURED lamp blink once.
- ___9. Sweep team sweeps Clockwise (CW) around RHIC.
- ___10. TL stops to check the Exhaust Fan Vent Barrier at I-07Q17.
- ___11. Sweep team sweeps Clockwise (CW) around RHIC.
- ___12. S2 stands static watch at the electrical services alcove opposite I-07Q13.
- ___13. TL enters the 1007C alcove and goes to the ladder at 7EL1.
- ___14. 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 7EL1 is closed.
- ___15. TL resets door 7EL1 using the S/R015 key in the RESET key-switch at the bottom of the ladder.
- ___16. IF 7EL1 will not reset, THEN TL climbs the ladder, closes 7EL1, then repeats step 15.
- ___17. TL observes RESET lamp lights after reset.
- ___18. TL sets second check station (7CS2) by turning S/R015 key in the SWEEP key-switch.
- ___19. TL observes AREA SECURED lamp blink once.
- ___20. TL goes to the far corner of the alcove to 7CS3.
- ___21. TL sets third check station (7CS3) by turning S/R015 key in the SWEEP key-switch.
- ___22. TL observes AREA SECURED lamp blink once.
- ___23. TL checks inside EVERY rack and then sweeps out the alcove and joins S2.
- ___24. TL checks fan vent barrier on vent above S2 and observes overhead barricade is in place.
- ___25. Sweep team sweeps Clockwise (CW) around RHIC.
- ___26. Sweep Team stops to check the inner and outer Exhaust Fan Vent Barriers at I-07Q9.
- ___27. Sweep team sweeps Clockwise (CW) around RHIC.
- ___28. Sweep Team stops to check the Electrical Alcoves and overhead barricades at I-07D5.
- ___29. Sweep team sweeps Clockwise (CW) around RHIC to I7WTCQ3.
- ___30. TL Stands Static watch at I7WTCQ3.
- ___31. S2 checks exhaust fan vent grating and overhead conduit at O-07Q3.
- ___32. S2 checks exhaust fan vent grating at O-07Q1.
- ___33. S2 goes down the ladder, walks to the Muon steel and searches the gap between the steel and the tunnel with a flashlight.
- ___34. S2 climbs the ladder to the caged area at the end of the 7-DX magnet beyond the shield blocks and sweeps the area outside of the cage. IF the cage door is unlocked, THEN they will go in, sweep the cage, exit, and padlock the door.
- ___35. S2 climbs down the ladder and sweeps back up the first ladder.
- ___36. S2 goes to the shield blocks on the south side and sweeps the area on the platform around the shield blocks and around the ZDC.
- ___37. S2 sweeps back to I7WTCQ3 and joins TL.
- ___38. S2 stands static watch at I7WTCQ3 where they can see the entry to the wooden stairs.
- ___39. TL goes down the stairs, walks to the Muon steel and searches the gap between the steel and the tunnel with a flashlight.
- ___40. TL sweeps back to the stairs.
- ___41. TL climbs the stairs and sweeps the area on the platform around the shield blocks and around the ZDC on the north side.
- ___42. TL sweeps the area outside the caged area at the end of the 7-DX magnet. IF the cage door is unlocked, THEN the TL will go in, sweep the cage, exit, and padlock the door.
- ___43. TL sweeps back to the wooden stairs.
- ___44. TL calls S2 to join him/her.
- ___45. Sweep Team sweeps out labyrinth to 7GE1.
- ___46. TL ENDS SWEEP by turning the S/R015 key in the SWEEP key-switch 7CS4.
- ___47. TL observes the yellow AREA SECURED lamp is lighted.
- ___48. TL radios MCR for simultaneous release for gate 7GE1.
- ___49. Sweep Team sweeps out 7z1 through 7GE1 gate.
- ___50. TL contacts MCR and confirms that gates are reset and 7z1 zone indicates sweep is good.

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

- ___51. After returning keys to the keytree, TL resets 7GE1 using the RHIC PanelView.
- ___52. After returning to MCR and verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.