

Prepared by: S. Belomestnykh

Date: June 17, 2013

Reviewed by: *[Signature]*

Date: 6/19/13

Approved by: *[Signature]*

T. Roser

Date: 6/20/13

VTF RSC Check-Off List for Testing SRF Cavities with RF power up to 200 W CW

Completion of this VTF RSC Check-Off List is a prerequisite for testing SRF cavities in VTF.

Upon completion of this check-off list in the MCR, the VTF testing of a SRF cavity may commence with RF power up to 200 W CW.

1. ____ (LP) **RSC LOTO has been applied to prevent a 200 W CW RF high power amplifier from being energized. This or equivalent must remain in place until the check-off list is complete.**
2. ____ (IG) Chipmunk operation verified.
3. ____ (RSCC) The shielding has been examined and found acceptable for SRF cavity tests.
4. ____ (LE) VTF shielding and barriers inspected and acceptable for SRF cavity tests.
5. ____ (LE) VTF roof operation verified.
6. ____ (LE) Area below VTF platform is verified to be free from personnel and RS LOTO locked and Red-Tagged.
7. ____ (RCD) The stairs to the roof of the Mezzanine clean room are roped off and posted not to enter without HP for cavity tests.
8. ____ (RCD) Post area around the perimeter of VTF till surveys have been completed
9. ____ (ACG) Chipmunks have interlock function checked. (See attached list).
10. ____ (ACG) PASS test is complete for VTF.

11. ____ (LE) Area surrounding VTF posted as no ladders/no climbing.
12. ____ (ACG) ODH sensor operation verified.
13. ____ (CEE) Interlock wiring prints base lined.
14. ____ (CME) Shielding drawings base lined.
15. ____ (RSC) State Tables Approved.
16. ____ (RSC) Check list item 788 completed on penetrations, area classifications, and crane cab.
17. ____ (LP) Source description reviewed with RSCC.
18. ____ (RSC) Misc. shielding complete—see check list item 806.
19. ____ (RGDC) Cavity being tested is covered by existing RGD permit.
20. ____ (ACG) All bypasses or temporary jumpers in place have been discussed with RSCC.
21. ____ (LP) The items listed above have been completed.
22. ____ (OC) List completion verified by on-duty operations coordinator.

When the list above is complete then a SRF cavity test in VTF may begin.

When the cavity is ready to potentially generate X-rays, the on-duty SCT needs to be in the area to conduct surveys of the shielding and penetration. After the surveys have been reviewed, the configuration of the area posting near the VTF will be determined.

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| RCD | Radiological Control Division: P. Bergh or designee |
| LE | Liaison Engineer: S. Pontieri or designee |
| LP | Liaison Physicist: S. Belomestnykh or designee |
| MCRGL | MCR Group Leader: P. Ingrassia or designee |
| RSCC | Radiation Safety Committee Chairperson: D. Beavis or designee |
| OC | Operations Coordinator |
| ACG | Access Control Group: J. Reich or designee |
| RCT | Radiation Control Technician |
| IG | Instrumentation Group: M. Minty or designee |
| CEE | Chief Electrical Engineer: J. Sandberg or designee |
| RGDC | C-AD RGD Custodian: A. Etkin or designee |

CHIPMUNKS

| Name | Location | Interlock [mrem/hr] | Alarm [mrem/hr] |
|---------|---------------------------|------------------------|--------------------|
| NMO_179 | VTF east end Rolling Roof | 2.5 | 1.6 |
| NMO_180 | VTF NE shadow block | 2.5 | 1.6 |