

Prepared by: Wencan Xu

Date: Feb. 24, 2014

Reviewed by: Jana Lewis

Date: 2/25/14

Approved by: T. Roser

T. Roser

Date: 2/25/14

**VTF RSC Check-Off List for Testing BNL3 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 BNL3 SRF cavity tests.
4. ____ (LE) VTF shielding and barriers inspected and acceptable for SRF
5. ____ (LE) Area below VTF platform is verified to be free from personnel and RS LOTO locked and Red-Tagged.
6. ____ (RCD) Post area around the perimeter of VTF till surveys have been completed.
7. ____ (ACG) Chipmunks have interlock function checked. (See attached list).
8. ____ (ACG) PASS test is complete for VTF.
9. ____ (LE) Area surrounding VTF posted as no ladders/no climbing.
10. ____ (ACG) ODH sensor operation is current on functional checks.
11. ____ (LP) Source description for cavity reviewed with RSCC.

12. ____ (RGDC) Requirements for RGD permit are current.
13. ____ (ACG) All bypasses or temporary jumpers in place have been discussed with RSCC.
14. ____ (LP) The items listed above have been completed.
15. ____ (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 RCT needs to be in the area to conduct surveys of the shielding and penetrations. After the surveys have been reviewed, the configuration of the area posting near the VTF will be determined.

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