

Prepared by: Igor Pinayev

Date: June 17, 2015

Reviewed by: Vona Davis

Date: 6/18/15

Approved by: T. Roser

T. Roser

Date: 6/18/15

**CeC PoP Experiment RSC Check-Off List for Photocathode Testing in the 112 MHz SRF electron gun**

**Completion of this CeC PoP Experiment RSC Check-Off List is a prerequisite for obtaining electron beam current from 112 MHz gun.**

Upon completion of this check-off list in the MCR, the testing of 112 MHz SRF electron gun photocathode may commence.

1. \_\_\_\_ (RSCC) The CeC configuration is same as reviewed for run14.
2. \_\_\_\_ (LP) 112 MHz SRF gun was tested for low cold emission.
3. \_\_\_\_ (LP) Low repetition rate laser was installed into the enclosure.
4. \_\_\_\_ (ESH) Laser setup and enclosure was reviewed and approved.
5. \_\_\_\_ (LP) C-AD OPM 2.5.2.2 will be followed for the test.
6. \_\_\_\_ (LP) Acknowledges that RCD will be requested to conduct surveys.
7. \_\_\_\_ (LP) List is complete.
8. \_\_\_\_ (OC) List completion verified by on-duty operator.

**This short list is based on the already RSC check-off lists that are active for CeC and RHIC operations.**

**When the SRF gun is ready to potentially generate X-rays or beam, 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 IP2 will be determined.**

RCD Radiological Control Division: P. Bergh or designee

|      |   |
|------|---|
| LE   | Liaison Engineer: D. Phillips or designee                     |
| LP   | Liaison Physicist: I. Pinayev or designee                     |
| ESH  | C-AD ESH Coordinator: A. Etkin 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                      |