

Prepared By: Wencan Xu  
Date: December 31, 2014  
Reviewed by: John Brown  
Date: 12/31/14  
Approved by: Volfgang Rieder  
T. Roser  
Date: 1/2/15

**ERL RSC Check-Off List for Cold Emission Testing of the SRF gun**  
**ERL and 5-cell Cavity**

**Completion of this ERL RSC Check-Off List is a prerequisite for cold emission testing of 5-cell cavity, SRF gun, and Fundamental Power Coupler (FPC) Conditioning.**

Upon Completion of this check-off list and the completion of the ASSRC check-off list in the MCR the ERL cold emission testing may commence.

1. \_\_\_\_ (LP) **RSC LOTO has been applied to prevent the 50 kW and 1 MW klystron power supply from being energized. This or the equivalent must remain in place till the check-off list is complete.**
2. \_\_\_\_ (LE) ERL Block house shielding and barriers inspected and acceptable for CET and FPC conditioning operations.
3. \_\_\_\_ (LE) The barriers are in place at both ends of the trench and posted.
4. \_\_\_\_ (LE) The ladder at the power supply house has a locked barrier and is posted.
5. \_\_\_\_ (LE) Area surrounding ERL posted as no ladders/no climbing.
6. \_\_\_\_ (LE) Waveguide is in place for 1MW system through penetration in second story of "condo"; the short plate on the end of waveguide is still in place, or the waveguide is connected to the SRF gun.
7. \_\_\_\_ (LE) Waveguide for 5-cell cavity is terminated with short plate, or connected to the 5-cell cavity.
8. \_\_\_\_ (RCD) Entrance gates to the ERL block house posted.
9. \_\_\_\_ (RCD) Outside entrances to 912 building ERL blockhouse posted as Controlled AREA, TLD required.

10. \_\_\_\_\_(RCD) Post gates for fenced area on west side as RCT escort required when ERL is operating.
11. \_\_\_\_\_(RCD) The door to the Klystron posted.
12. \_\_\_\_\_(RCD) Access panel on north side of electronics room posted as RCT escort and survey required when ERL is operating.
13. \_\_\_\_\_(RCD) Gates to west alley way posted as access prohibited without an RCT escort.
14. \_\_\_\_\_(ACIG) Chipmunk operation valid for alarms.
15. \_\_\_\_\_(ACG) PASS tests, ODH, and chipmunks are still valid for ERL operations of the gun and five-cell cavity.
16. \_\_\_\_\_(ACG) All bypasses or temporary jumpers in place have been discussed with the RSCC.
17. \_\_\_\_\_(OC) Blockhouse and west fenced area are verified as swept and locked.
18. \_\_\_\_\_(LP) The items listed above have been completed.
19. \_\_\_\_\_(OC) List completion verified by on-duty operations coordinator.

**When the list above is complete then cold emission testing of the gun or ERL 5-cell cavity 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 postings near the blockhouse will be determined.**

RCD: Radiation Controlled Division: P. Bergh or designee. Ext:5992  
 LE: Liaison Engineer: D. Phillips or designee. Ext. 4671  
 LP: Liaison Physicist: Sergey Belomestnykh or designee. Ext: 8448  
 MCRGL: MCR Group Leader: Peter Ingrassia or designee. Ext. 4272  
 RSCC: Radiation Safety Committee Chairperson: D. Beavis or designee Ext: 7124  
 OC: Operations Coordinator Ext. 8061(Wencan Xu)  
 ACG: Access Control Group: J. Reich or designee. Ext: 5335  
 RCT: Radiation Control Technician  
 ACIG: Accelerator Components & Instrumentation Group: Tony Curcio (4659)/Joe Citro or designate.  
 CEE: Chief Electrical Engineer: J. Sandberg or designee. Ext: 4682  
 RGDC: CA RGD custodian: A. Etkin or designee. Ext: 4006

ERLGL: ERL Group Leader Ilan (5143) or Dmitry (5136)

<b>CHIPMUNKS</b>
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Name	Location	Interlock [mrem/hr]	Alarm (mrem/hr)
NMO170	North Labyrinth	20	10
NMO171	North Gate	2.5	1
NMO172	1 MW Waveguide port	2.5	1
NMO173	50 KW waveguide area	2.5	1
NMO174	West cryo pipe exit	2.5	1
NMO175	South Gate	2.5	1
NMO176	South Labyrinth	50	20
NMO177	Internal to ERL 1	-	-
NMO178	Internal for ERL 2	-	-
NMO181	Gun Power limit	20	10
NMO182	Power Limit gun and Dump	20	10

## Meyer, Christine

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**From:** DiFilippo, Lynanne  
**Sent:** Monday, December 29, 2014 11:04 AM  
**To:** Ben-Zvi, Ilan; Blaskiewicz, Michael M; Blydenburgh, Tracy R; Bubka, Steven; Cestra, Karen N; Dowling, Donna M; Fischer, Wolfram; Gibbs, Doon L; Karol, Raymond C; LaMontagne, Stephanie H; Lessard, Edward T; Lamberti, Ann; Litvinenko, Vladimir; Makdisi, Yousef I; Mueller, Berndt; Peggs, Stephen G; Sandberg, Jon N; Spencer, April; Tuozzolo, Joseph E; Tribble, Robert; Roser, Thomas  
**Cc:** Capasso, Frances; Flynn, Liz; Ohlsen, Maria; Luhrs, Ann Marie; Asselta, Sandra L; Cantelmo, Doreen; Collins, Dolores A; DiFilippo, Lynanne; Hoffman, Caitlin; Manning, Pamela; Meyer, Christine; Petway, Annabelle; Pilkington, Alyssa; Rivera, Nina; Tuohy, Kathleen  
**Subject:** Delegation of Authority - T. Roser  
**Categories:** Orange Category

**Thomas Roser will be away from the Laboratory Friday, January 2, 2015 through Tuesday, January 6, 2015. In his absence, Wolfram Fischer will act on his behalf. Wolfram may be reached at ext. 5452, or by e-mail at [wfischer@bnl.gov](mailto:wfischer@bnl.gov).**

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