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Date: Apr. 15, 2014

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Date: 4/15/2014

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T. Roser

Date: 4/15/14

RSC Check-Off List for 56 MHz Cavity at RHIC

Completion of this RSC Check-Off List is a prerequisite for testing 56 MHz superconducting RF cavity at IR4 in RHIC.

Upon completion of this check-off list in the MCR, testing of the 56 MHz SRF cavity may commence at IR4 with RF power up to 1 kW CW.

1. ____ (LP) **RSC LOTO has been applied to prevent a 1 kW CW RF high power amplifier from being energized. This or equivalent must remain in place until the check-off list is complete.**
2. ____ (ACG) Dual interlocks for the 56 MHz cavity have been added and functionally checked.
3. ____ (ACG) ECN for State table has been signed.
4. ____ (ACG) ECN for wiring prints for the interlocks has been signed.
5. ____ (ACG) Software for interlocks has been archived.
6. ____ (LP) Source description for cavity reviewed with RSCC.
7. ____ (ACG) All bypasses or temporary jumpers in place have been discussed with RSCC.
8. ____ (LP) The items listed above have been completed.
9. ____ (OC) List completion verified by on-duty operations coordinator.

When the list above is complete then a SRF 56 MHz cavity test at IR4 in RHIC may begin. See items 10 and 11 for requirement actions when the cavity is being tested.

10. _____ (LP) Inform RCTs when cavity testing is to begin so they can perform surveys as described in 11. below

11. _____ (RCD) RCTs are prepared to do the following when the cavity test begins: **When the cavity is ready to potentially generate X-rays, the on-duty RCT needs to be notified to make surveys at the interior gates when possible during maintenance days if the 56 MHz cavity is operating in RF only mode. Due to the new location of a potential x-ray source, 56 MHz Cavity, the potential for x-ray leakage through cracks must be examined during the RCT surveys.**

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