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C-A OPERATIONS PROCEDURES MANUAL

9.5.11 C-A Procedure for Access to C-A High Radiation Areas

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Hand Processed Changes

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Approved: _____ *Signature on File* _____
Collider-Accelerator Department Chairman Date

P. Cirnigliaro

9.5.11 C-A Procedure for Access to C-A High Radiation Areas

1. Purpose

The purpose of this procedure is to provide C-A Radiation Workers with a method to review tasks in High Radiation Areas, to ensure radiological and conventional safety reviews have taken place, and that the personnel are cognizant of the particular prerequisites to enter such areas and perform that task.

1.1 Definitions

1.1.1 RWP - (see [FS-SOP-4031](#)).

1.1.2 High Radiation Area - any accessible area where an individual may receive a whole body dose greater than 100 mrem in one hour at 30 cm, and less than 500 rad /hr at 100 cm.

2. Responsibilities

2.1 All C-A personnel who enter or work in high radiation areas are responsible for following this procedure.

3. Prerequisites

3.1 Personnel working under a Radiation Work Permit (RWP) must complete training required in the RWP. Personnel shall wear appropriate protective clothing, wear dosimeters, and must sign and understand provisions stated in the RWP.

3.2 Personnel working under an Enhanced Work Permit (EWP) must complete appropriate training, wear protective clothing, wear personal protective equipment, and must sign and understand provisions stated in the EWP.

4. Precautions

None

5. Procedure

5.1 Each Radiation Worker, or Work Party intending to enter a High Radiation Area, must have a RWP, or a procedure in lieu of a RWP, that has been approved by the Radiological Control Division Manager.

- 5.2 Each Radiation Worker, or Work Party intending to enter High Radiation Area, must have a EWP or a documented procedure.
- 5.3 Each Radiation Worker shall have the necessary and required training.
- 5.4 It is incumbent upon each Radiation Worker to be knowledgeable of own training qualifications and pending expiration dates of training.
- 5.5 All Radiation Workers intending to enter a High Radiation Area must complete the C-A RWP Access Control Log (see [C-A-OPM-ATT-9.5.11.a](#)) prior to each job performed, or once each day during a multi-day job.
- 5.6 The Radiation Worker shall complete all spaces on the C-A RWP Access Control Log.
- 5.7 All Radiation Workers shall complete the Self-Reading Dosimetry (SRD) portion of the C-A RWP Access Control Log for each job performed, or once each day during a multi-day job.

6. **Documentation**

- 6.1 C-A RWP Access Control Logs are located at the following designated log-in stations:
 - 911 South Gate
 - 912 Switchyard
 - 919B
 - 914 (Booster Service Bldg.)
 - 930 Plug Door
 - 930 Tank #1 Gate
 - 940
- 6.2 Completed Access Control Logs are periodically collected and maintained on file with the original RWP.
- 6.3 Quality Assurance shall periodically review the C-A Gate Security Log Sheet with the C-A RWP Access Control Log to ensure consistency.
- 6.4 Radiological Control Division (RCD) shall compile SRD data for selected individuals to ensure administrative control levels are not exceeded.

7. References

- 7.1 [BNL Radiological Control Manual, Chapter 2.](#)
- 7.2 [C-A-OPM 9.5.4, "Radiation Work Permit".](#)
- 7.3 [C-A-OPM 2.28, "C-A Procedure For Enhanced Work Planning".](#)
- 7.4 [FS-SOP-4031, "Radiological Work Permit".](#)
- 7.5 [C-A-OPM-ATT 4.1.a, "C-A Gate Security Log Sheet Form".](#)

8. Attachments

- 8.1 [C-A-OPM-ATT 9.5.11.a, "C-A RWP Access Control Log."](#)