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C-A OPERATIONS PROCEDURES MANUAL

8.12.1 Building 912 Crane Clearance Procedure

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Hand Processed Changes

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

F. Kobasiuk

8.12.1 Crane Clearance Procedure

1. Purpose

To provide guideline to the Collider-Accelerator Support (CAS) Watch, for the safe operation of the building 912 cranes when hazardous gases or radiation hazards present a danger to equipment or personnel.

2. Responsibilities

- 2.1 During periods when the C-A is running, it is the responsibility of the CAS Watch Supervisor to control the operation of the overhead cranes and to implement this procedure.
- 2.2 During prolonged C-A shutdown periods when there is no CAS Watch on duty, the responsibility for controlling crane operations resides with the CAS Rigging Supervisor.
- 2.3 The "hand-off" of the responsibility between the CAS Watch Supervisor and the CAS Rigging Supervisor shall be the responsibility of the CAS Technical Groups Supervisor.

3. Prerequisites

- 3.1 Identify the location within the building where the operator wishes to use the crane.
- 3.2 Determine what hazards exist in the area of operation.
- 3.3 Notify the operator of the hazardous gas device where the crane will operate.
 - 3.3.1 The operator of the hazardous gas device shall verify that their systems are running normally.
- 3.4 Trained and qualified CAS Watch Supervisor.

4. Precautions

- 4.1 Consideration should be given relative to hazardous gas devices and high radiation areas.
- 4.2 The local fan must be set to high speed if a crane's "bridge" is to be operated over a hazardous gas device.
- 4.3 Receive permission from the beam line [liaison engineer](#) if an operation involves passing a "load" directly over a hazardous gas device.

- 4.4 The crane may not operate over a hazardous gas device while it is being filled or "dumped".
- 4.5 A crane may not be operated in a restricted shielding top area without implementing the RSW Access Procedure for Secured Catwalks and shielding tops.
- 4.6 In an emergency the CAS Watch may stop a cranes operation remotely.

5. Procedures

- 5.1 The CAS Watch Supervisor shall inform the rigging crews lead-person of the potential hazards and any restrictions placed on the cranes operation.
- 5.2 The CAS Watch Supervisor shall direct that the requested building crane power be unlocked.
- 5.3 After the lead-person has completed the rigging operation they shall inform the CAS Watch Supervisor.
- 5.4 The CAS Watch Supervisor shall direct that the crane power be locked out.
- 5.5 The CAS Watch Supervisor shall notify the operator of the hazardous gas device that rigging operations have been completed.

6. Documentation

Log all requests in the CAS Watch Log.

7. References

- 7.1 [C-A-OPM 8.12.3](#), "Procedure for Introduction of Hazardous Gas into the Experimental Area".
- 7.2 Radiation Safety Watch Book (RSW)
RSW Access Procedure for Secured Catwalks and shielding tops.
- 7.3 CAS procedures and instructions manual:
D.11.0, "Communicating requests for crane operation during C-A operating periods".

8. Attachments

None