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The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

12.51 Overhead Crane Operation

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Hand Processed Changes

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

M. Wiplich

12.51 Overhead Crane Operation

1. Purpose

The purpose of this procedure is to define the steps required to operate an overhead crane.

2. Responsibilities

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

3. Prerequisites

3.1 TVDG Operator training is required

3.2 SAC training is required.

4. Precautions

The crane circuit breaker is normally locked when the crane is not in use. Obtain the key from the Tandem Control Room. The key shall be returned to the Tandem Control Room at the completion of the job.

5. Procedure

5.1 Before the crane is unlocked, the TVDG operator SHALL:

5.1.1 Initial the checklist for the crane being used.

5.1.2 Insure that the crane operator has current SAC training.

5.1.3 Insure that at least two people are present to participate in any rigging operation.

5.1.4 Secure and post any area in which the crane will operate as a hard hat area.

5.2 The following steps refer to buttons and switches on the pendant.

5.2.1 Push the ON button or switch the toggle switch to ON.

5.2.2 Push the UP button to raise the Block, stopping one foot from the upper limit.

- 5.2.3 Inch Block up to activate upper limit switch.
- 5.2.4 Push the DOWN button to lower the Block one foot.
- 5.2.5 Push the UP button and test the upper limit switch at full speed.
- 5.2.6 Observe the Drum. Check to see that the ropes lie properly in the grooves.
- 5.2.7 Push both Trolley buttons and test motion in both directions.
- 5.2.8 Push both Bridge buttons and test motion in both directions.
- 5.2.9 Push the OFF button or switch the toggle switch to OFF. Make sure that none of the other buttons function.

Note:

If you notice or suspect any malfunctions, contact your the ES&H Coordinator or Facility Support Representative.

- 5.3 When raising or lowering equipment from the pit area of the accelerator room:
 - 5.3.1 Install a portable barricade completely around the section of floor to be removed.
 - 5.3.2 Do not remove the floor until it becomes necessary to lower the hook or equipment through the opening.
 - 5.3.3 Replace the flooring immediately upon completion of the hoisting or lowering operation. Do not remove the barricade until the flooring has been replaced.
- 5.4 At the completion of the rigging operation, the TVDG operator SHALL:
 - 5.4.1 Remove all barricades and postings and lock out the crane power.
 - 5.4.2 Sign out crane use in the Operations & Maintenance Log.
 - 5.4.3 Return to key to the Tandem Control Room

6. **Documentation**

None

7. **References**

None

8. **Attachments**

None