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C-A OPERATIONS PROCEDURES MANUAL

11.2.4 PHENIX Safety System Bypass Switch Procedure

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Hand Processed Changes

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

P. Giannotti

11.2.4 PHENIX Safety System Bypass Switch Procedure

1. Purpose

To inform the appropriate people of the method of administering bypassing Inputs and Outputs of the safety system.

2. Responsibilities

Systems specialists are responsible for implementing this procedure. These specialists are required to complete Logbook entries and to bring the system back to an as-configured state.

3. Prerequisites

- 3.1 Bypass must be approved by PHENIX or Collider-Accelerator Department Experimental Safety Review Committee (ESRC).
- 3.2 All personnel working on any electrical system or equipment in the C-AD shall be familiar with BNL [SBMS Electrical Safety](#), BNL [SBMS Lockout/Tagout \(LO/TO\)](#), [C-A-OPM 1.5, "Electrical Safety Implementation Plan"](#), [C-A-OPM 1.5.3 "Procedure to Open or Close Breakers and Switches and Connecting/Disconnecting Plugs"](#), [C-A-OPM 2.36, "Lockout/Tagout for Control of Hazardous Energy"](#). C-AD will provide on-site/work specific training to individuals in the electrical safety aspects of their job functions and assignments.

4. Precautions

- 4.1 Only system specialists will implement this procedure.
- 4.2 Collider-Accelerator will be in control of the key for the Bypass Cabinet.
- 4.3 The use of a bypass of any system will only be implemented after a careful evaluation of its need and consequences, and shall not result in placing any system in an unsafe state. All systems will be monitored by trained and authorized personnel while in their bypass state. Authorization from C-A Department shall be required prior to implementing certain bypasses, and the C-A Department liaison physicist or engineer shall be consulted to determine if such authorization is required. In general, this authorization is required when a bypass will defeat or impair an L-3 interlock while flammable gas is present in any detector.

5. Procedure

- Attain the key for the Bypass Cabinet from C-A Collider Accelerator Support (CAS) and unlock.

- Turn on the appropriate bypass switch in the cabinet, a light will come on at the cabinet and at the annunciator panel showing a bypass is in effect.
- Log the name of the bypass switch that was activated in the Bypass Logbook along with the date and name of the person doing the bypass.
- Lock the cabinet and return the key to C-A CAS.
- Affect repairs or do what is required.
- To return to an as-configured (no bypass) state, attain the Bypass Cabinet key from Collider-Accelerator Department.
- Turn off the appropriate bypass switch in the cabinet, the light will go off at the cabinet and at the annunciator panel showing that bypass has been removed.
- Log the return information in the Logbook, name, date and bypass switch.
- Lock the cabinet and return the key to C-A CAS.

6. **Documentation**

- 6.1 Logbook of all bypass activity.

7. **References**

- 7.1 [C-A-OPM 1.5, “Electrical Safety Implementation Plan”](#).
- 7.2 [C-A-OPM 1.5.3 “Procedure to Open or Close Breakers and Switches and Connecting/Disconnecting Plugs”](#).
- 7.3 [C-A-OPM 2.36, “Lockout/Tagout for Control of Hazardous Energy”](#).
- 7.4 [SBMS Electrical Safety](#).
- 7.5 [SBMS Lockout/Tagout \(LOTO\)](#).

8. **Attachments**

None