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C-A OPERATIONS PROCEDURES MANUAL

3.16 Emergency Procedure for the PHENIX Detector Building 1008 Complex

Text Pages 2 through 4

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

Y. Makdisi

3.16 Emergency Procedure for the PHENIX Detector Building 1008 Complex

1. Purpose

The purpose of this document is to define the Local Emergency Plan (LEP) for the operation of the PHENIX detector system. This local emergency plan will help to ensure:

- The safety of personnel.
- Implementation of the appropriate emergency procedures contained in [C-A-OPM 3.0](#) and Section 5 of this document.
- Prompt notification of appropriate personnel.
- Maintenance of appropriate emergency status.
- Protection of the environment.
- Preservation of BNL facilities and equipment.

2. Responsibilities

2.1 Local Emergency Coordinator (LEC) - During the testing, commissioning, and operation of the PHENIX detector system, the Local Emergency Coordinator (LEC) will be the C-A Collider-Accelerator Support (CAS) Watch. The responsibilities of the LEC are described in [C-A-OPM 3.2](#).

2.2 The Shift Leader, or designee, or the Building Manager shall be responsible for:

- 2.2.1 Acting as a First Responder to incidents, and responding to the Command Post.
- 2.2.2 Assisting the LEC in maintaining the PHENIX detector and facility in a safe condition.
- 2.2.3 Ensuring that personnel involved in PHENIX operations are trained in all emergency and safety procedures.
- 2.2.4 Ensuring that all postings of special instructions are complete.
- 2.2.5 Implementing all emergency responses outlined in the Procedures section of this document, or any additional instructions given by the Department Emergency Coordinator (DEC), LEC, or Incident Commander.
- 2.2.6 Assist in assuring that the persons performing safety checks on gas system are familiar with the appropriate procedure and the C-A Local Emergency Plan.

3. Prerequisites

The Shift Leader shall have training in the following:

- 3.1 C-A Local Emergency Plan, [C-A-OPM 3.0](#), including familiarity with [SBMS Emergency Preparedness](#).
- 3.2 All relevant equipment involved in the PHENIX detector system being used to ensure safe operations.
- 3.3 Knowledge of the physical layout of the 1008 complex (routes of egress, location of emergency equipment, telephones, controls, etc.), refer to Attachment 8.1.
- 3.4 Knowledge of the Building Assembly Area (COUNTING HOUSE) and outside assembly area (OUTSIDE of the COUNTING HOUSE), refer to Attachment 8.1
- 3.5 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 The safety of personnel and the environment is of primary importance. In an emergency, all personnel shall take great care not to give instructions or information, which may place personnel or the environment at risk or harm.

5. Procedures

- 5.1 In the event that a fire alarm goes off in the 1008 complex, all non-emergency personnel shall evacuate to the assembly point (OUTSIDE THE COUNTING HOUSE) and await the arrival of the Fire/Rescue Group. For PHENIX, the emergency personnel include: The Shift Leader, Shift Assistant1, Shift Assistant 2, DAQ Operator, Offline Shift, and Run Coordinator, or designee.
 - 5.1.1 If it is not immediately clear there is an actual fire:
 - 5.1.1.1 The Shift Leader or designee shall look for confirmation using the remote camera.
 - 5.1.1.2 The Shift Leader, or designee, shall consult the SMCS panel and determine if the alarm originates in the PHENIX IR. If so, **BNL**

fire heat sensor Zone 2, or BNL fire HSSD high smoke Zone 3, will be lit on the SMCS panel. If the IR power is still on, THEN:

- 5.1.1.3 The Shift Leader, or designee, shall inspect the 1008 complex Fire Panel to assure the alarm is from the PHENIX IR. If the alarm is confirmed to come from the IR, and the power in the IR is still on, push the emergency POWER OFF button in the Control Room. This shuts down the power and places the gas system in a safe state. Pull the nearest fire alarm box if not already sounding, then call 2222 or 911.
 - 5.1.1.4 Should any of the main power breakers not activate, an SMCS alarm would sound, press the FACILITY POWER CRASH button to interrupt power from the substation.
- 5.2 If more than one fire alarm goes off or in the event that there is an actual fire in the 1008 complex, evacuate all personnel to the assembly point and await the arrival of the Fire/Rescue Group.
- 5.2.1 Trip the emergency POWER OFF button to shut down power.
 - 5.2.1.1 Should any of the main power breakers not activate, an SMCS alarm would sound, press the FACILITY POWER CRASH button to interrupt power from the substation.
 - 5.2.2 Pull the nearest fire alarm box if the alarm is not already sounding, then call 2222 or 911.
 - 5.2.3 Designate a person to notify the gas system experts on call and inform them that an emergency has occurred. The LEC and Shift Leader should not leave the area without approval of the Incident Commander.
 - 5.2.4 The LEC and Shift Leader shall report to the Command Post upon arrival of the Fire/Rescue Captain. The Command Post shall be vehicle designated Car-1 unless directed elsewhere by the F/R Captain.

6. **Documentation**

None

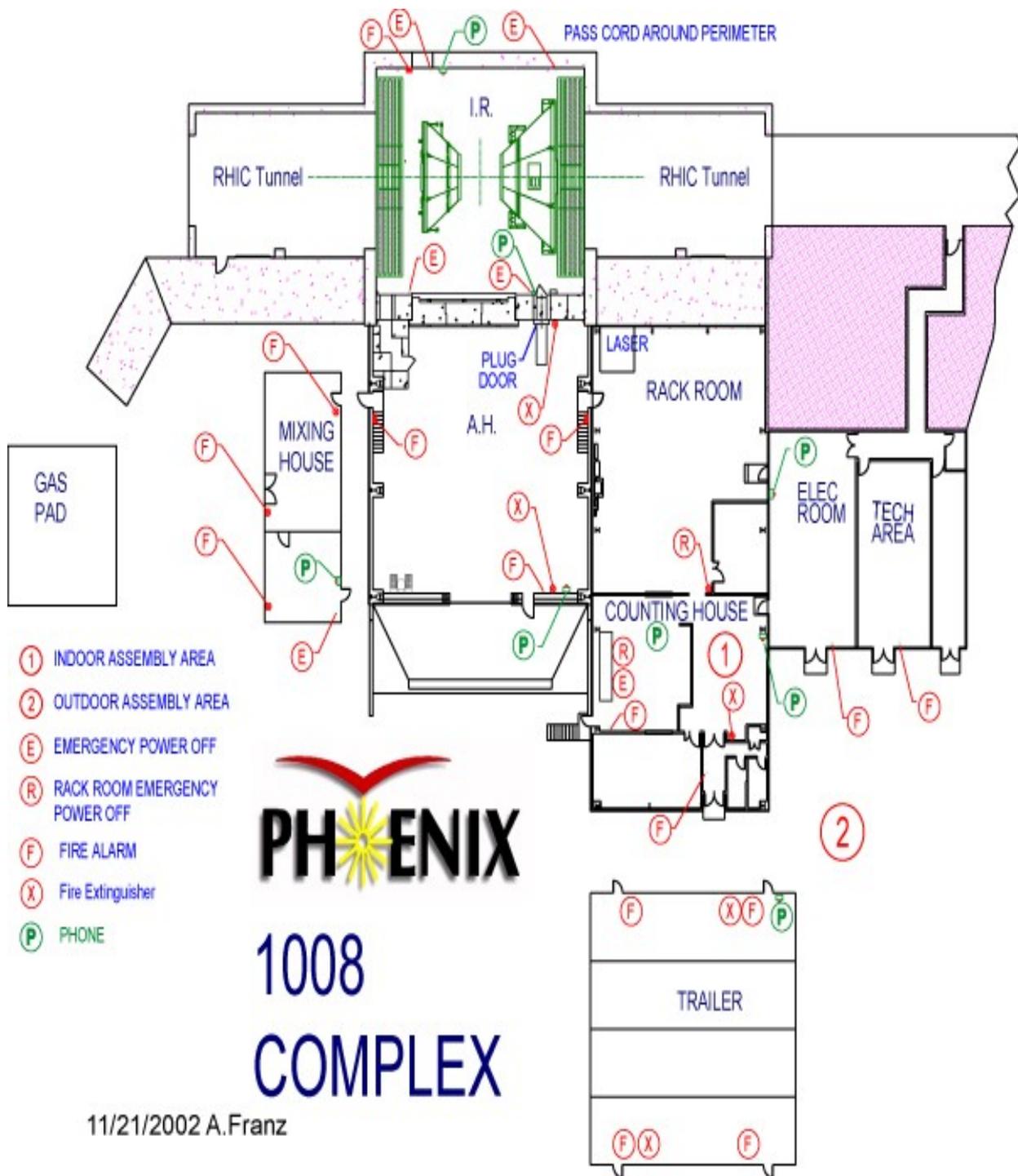
7. **References**

- 7.1 [C-A-OPM 3.0, Local Emergency Plan](#)

8. Attachments

8.1 Layout of the PHENIX site indicating:

- a. Fire alarms and fire extinguishers
- b. Telephones and intercom systems
- c. Gas pad
- d. Emergency Assembly area inside (Counting House)
- e. Evacuation Assembly area outside (outside Counting House)
- f. Emergency power buttons



Attachment 8.1