

3.19 Emergency Procedure for the Experimental Detector Building 1002 Complex

1. Purpose

The purpose of this document is to define the Local Emergency Plan (LEP) for the operation of the IP2 experimental 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 Collider-Accelerator 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 IP2 experimental detector system, the Local Emergency Coordinator (LEC) will be the C-A Facilities & Experimental Support (FES) Watch. The responsibilities of the LEC are described in [C-A-OPM 3.2](#).

2.1.1 The LEC is responsible for being aware of the Shift Leader responsibilities described in Section 2.2.

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

2.2.1 Acting as a First Responder to incidents, and responding to the Command Post.

2.2.2 Assisting in maintaining the IP2 experimental detector and facility in a safe condition.

2.2.3 Ensuring that personnel involved in IP2 experimental 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).

3. **Prerequisites**

The Shift Leader, or designee, shall have training in the following:

- 3.1 “Local Emergency Plan”, [C-A-OPM 3.0](#).
- 3.2 All relevant equipment involved in the IP2 experimental detector system being used to ensure safe operations.
- 3.3 Knowledge of the physical layout of the 1002 complex (routes of egress, location of emergency equipment, telephones, controls, etc.).
- 3.4 Knowledge of the assembly areas:

- Outside Assembly Area - area between 1002B and 1002D
- Shelter-in-Place Area - 1002D for buildings 1002A, 1002C, and 1002D
- Shelter-in-Place Area - Tunnel for building 1002

4. **Precautions**

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 of an emergency/fire in 1002 (IR), 1002A (gas/pump room), 1002C (Fast Electronics Hut), or 1002D (Counting House):
 - 5.1.1 pull the nearest fire alarm box if the alarm is not already sounding, then call 2222 or 911,
 - 5.1.2 evacuate all personnel and proceed to the outside assembly point and await the arrival of the Fire/Rescue Group,
 - 5.1.3 if during Collider-Accelerator operations periods, notify the Main Control Room (MCR) at x4662. The CAS Watch may be contacted by phone at x2024, if the MCR can not be contacted,
 - 5.1.4 the LEC and Shift Leader shall report to the Command Post upon arrival of the Fire/Rescue Captain. The Command Post is vehicle designated Car-1 unless directed elsewhere by the F/R Captain,

5.1.5 If requested by Fire/Rescue Captain to turn off AC power, the Shift Leader will direct the CAS Watch to the location of the following three items:

- Dirty Power Transformer
- Clean Power Transformer
- Fast Electronic Hut A.C.

To do so, there are two choices. The safest way is to go to the **1002A electrical equipment hallway** and find the big 480V switch box named “**2S Sect. 2**”. The disconnect switch is the 2nd one from the top as shown in Figure 1. Alternatively, one can also go to **1002A Mezzanine** and find the panel (furthest from the staircase) called “**2S-S2-1**” where each of the above 3 items has one dedicated switch as shown in Figure 2.

5.1.6 in the event of a life threatening emergency, the Shift Leader may operate the following three switches:

- Dirty Power Transformer
- Clean Power Transformer
- Fast Electronic Hut A.C.

provided that he or she does not put themselves in immediate danger.



Figure 1: 2S Sect. 2 (the 2nd Switch from the top)



Figure 2: 2S-S2-1 (only the above-mentioned 3 out of 4 switches are relevant)

6. Documentation

None

7. References

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

8. Attachments

None