

4.62 Operating the LINAC Shield Door in Bldg. 930

1. Purpose

To provide instructions to Operations personnel for operating the LINAC plug door.

2. Responsibilities

2.1 MCR Operators and CAS technicians are responsible for the execution of this procedure

3. Prerequisites

- 3.1 LINAC in Controlled Access.
- 3.2 BNL '3' Key, AA 256 Key, ME17 key
- 3.3 TLD
- 3.4 Hearing protection
- 3.5 Both LINAC LEBT Beam Stops are closed in LINAC Control Room

4. Precautions

Hearing protection is now required in the LINAC building 930 while executing this procedure.

5. Procedures

5.1 Opening up the LINAC plug door

- 5.1.1 Enter the front entrance to Bldg. 930 (LINAC) and turn left. Proceed down past tank #9 to the LINAC Plug door located at the south east end of the building (See Figure 1).



Figure 1 Linac Building 930

- 5.1.2 Locate the **M14A23A3** box- the larger of the two-(see Figure 2) to the left of the LINAC plug door and verify that the GREEN Beam secured light is lit.



Figure 2 M14A23A3 Security Box

- 5.1.3 Using the **BNL3** key, insert into key switch next to reset light. Call MCR for simultaneous release, turn key to unlock position while pressing large BLACK unlock button to right of key switch. **RESET** light (white) should go out and **NOT RESET** light (amber) should now be lit.
- 5.1.4 Using the **BNL3** key, insert into smaller box **M14A23A5** (see Figure 3) to the left of LINAC plug door and turn to right. A loud alarm will sound as the plug door backs slowly out.



Figure 3 M14A23A5 Security Box

- 5.1.5 Press large RED button to stop plug door after it has moved beyond row of gray cabinets, or allow the plug door to fully open. It will stop by itself.

5.1.6 The **AA256** key can now be used for access into the LINAC tunnel.

5.2 Closing and resetting the LINAC plug door

Note: If an entry has been made through the interior HEBT gate, make sure it has been reset with the **ME17** key before proceeding.

5.2.1 To close the plug door press the large **GREEN** button. An alarm will sound and the plug door will slowly move back into position in front of gate.
NOTE: Gate will stop automatically.

5.2.2 Once gate is secure, locate the (**M14A23A3**) box (**LARGE** box) insert the **BNL3** key into key switch next to the reset light and turn left. The **'NOT RESET'** light should go out and the **RESET** light should now be lit.

5.2.3 Proceed down the LINAC corridor to the other end of the building, past Gate 1, around the tech shop and locate the large gray panel labeled **'LINAC SECURITY'** (See Figure 4)

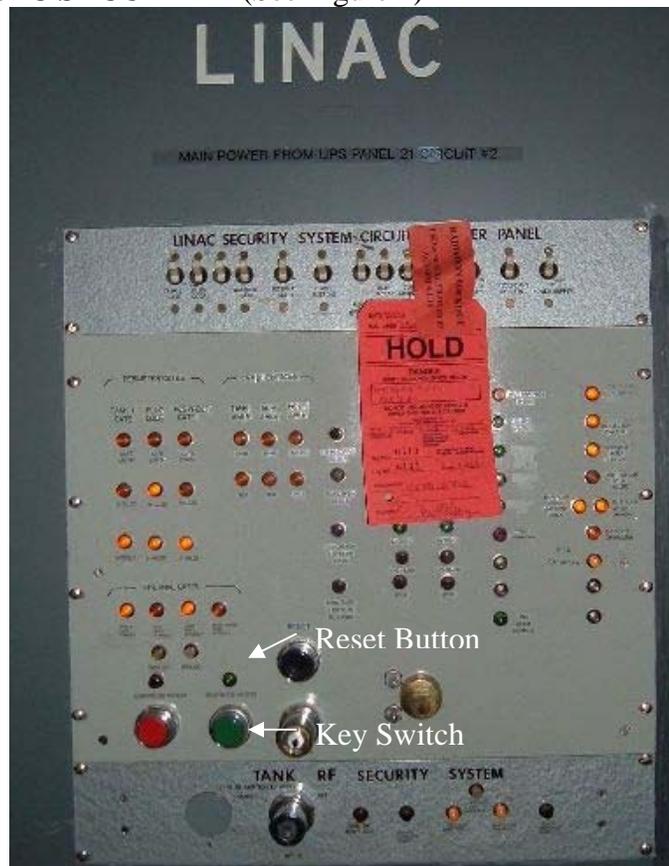


Figure 4 Linac Security Panel

5.2.4 Insert the **BNL3 KEY** into the key switch labeled **'RESET'** and turn to right while pressing large **BLACK** button above key switch. A very loud alarm will sound for ten seconds and then stop.

5.2.5 Call MCR to verify that the LINAC PLUG door has been reset. The LINAC is now secure for beam operations.

5.2.6 Reopen LINAC Beam Stops in LINAC Control Room.

6. Documentation

None

7. References

None

8. Attachments

None