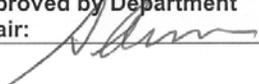


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| BROOKHAVEN NATIONAL LABORATORY PHYSICS DEPARTMENT | | Number: PO-P-ATF- 0012 | Revision: 1 |
| | | Effective: 08/12/2004 | Page 1 of 2 |
| Subject: Procedure for Operation of the ATF Modulators | | Prepared by: Vitaly Yakimenko | |
| Reviewed by ES&H Coordinator:  | Approved by ATF Head:  | Approved by Department Chair:  | |

Procedure for Operation of the ATF Modulators

TURN ON PROCEDURE

1. Precautions and Limitations

Only persons trained as ATF Operator or Modulator Operator may follow this procedure.

2. Turn On Procedure

- a. Remove the lock from the main modulator power disconnect and engage the switch.
- b. Reset the radiation interlocks (RIA and RIB) below the disconnect switch.
- c. Turn the key on the arc detector to the RESET position. The arc detector for modulator #1 is located on the upper left side of its rack (between the two modulators), and for modulator #2 on its front control panel (between the filament timer and trigger on/off switch).
- d. Turn on the high voltage power supply for the modulator.
- e. Allow the modulator to ramp up to its full PFN voltage. Wait for at least 2 seconds.
- f. **Critical item** – turn the arc detector key to the RUN position.
- g. Remove and secure the key.

Note: If the key is not returned to the RUN position, the modulator will be in a reset state and therefore unprotected by the arc detector. This may allow a capacitor to catch fire and/or explode.

TURN OFF PROCEDURE

1. Normal Turn Off Procedure

- a. Disengage the main modulator power disconnect switch.
- b. Secure the lock on the switch.

2. EMERGENCY TURN-OFF PROCEDURE

- 2.1 EMERGENCY MODULATOR TURN-OFF: PUSH ANY OF THE RED "MODULATORS ELECTRICAL EMERGENCY STOP" BUTTONS PROVIDED. THIS WILL TURN OFF BOTH MODULATORS.
- 2.2 Record emergency turn off date, time and reason for use in the ATF operations logbook and sign.