

If you are using a printed copy of this procedure, and not the on-screen version, then you MUST make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.

C-A OPERATIONS PROCEDURES MANUAL

12.18 Start-up After Power Outage

Text Pages 2 through 4

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

M. Wiplich

12.18 Start-up After Power Outage

1. Purpose

The purpose of this procedure is to carefully begin to recover the vacuum system and to condition the machine after the tube vacuum has been somewhat spoiled. The machine vacuum systems have been valved off and closed and as a result the tube pressure has gone up. Individual tube conditioning is necessary due to the vacuum disturbance. It is necessary to put beam into the target room as soon as possible in order to allow time for troubleshooting and repair if necessary.

2. Responsibilities

It is the responsibility of the person or persons executing this procedure to observe all safety rules.

3. Prerequisites

3.1 Tandem Operator training

4. Precautions

None

5. Procedure

Checklist (when indicated by “___”, initial step upon completion)

- 5.1 ___ Turn On Plectron.
- 5.2 ___ DI water pumps on.
- 5.3 ___ Chilled Water pump on.
- 5.4 ___ At gas panel unlock valves.
- 5.5 ___ At gas panel open dryer valves.
- 5.6 ___ In accelerator room start Miran system motor.
- 5.7 Start cryo pumps for MP-7 first.

- 5.7.1 __ LE
- 5.7.2 __ HE
- 5.7.3 __ NII
- 5.7.4 __ object
- 5.7.5. __ image
- 5.7.6 __ switcher
- 5.7.7 __ 55 degree line.
- 5.8 Recover vacuum in machine first, then NII and source, then continue along HE, Object, Image, Switcher.
- 5.9 __ Start source only after good vacuum in NII
- 5.10 __ In control room reset target room guardian.
- 5.11 __ Recover TR-4 vacuum.
- 5.12 __ Start machine with individual tube conditioning.
- 5.13 The following can be started later in the week:
 - 5.13.1 __ Start other cryo pumps in TR-2.
 - 5.13.2 Start MP-6 cryo's
 - 5.13.2.1 ____ LE
 - 5.13.2.2 ____ NII
 - 5.13.2.3 ____ HE
 - 5.13.2.4 ____ Switcher
 - 5.13.2.5 ____ Intermediate (west of MP- 7)
- 5.14 __ Set Clocks.

6. **Documentation**

The “___” (lines) in the procedure are for place-keeping only. This procedure is not a record.

7. **References**

None

8. **Attachments**

None