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C-A OPERATIONS PROCEDURES MANUAL

12.17 Shut Down Before Power Outage

Text Pages 2 through 4

Hand Processed Changes

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

C. Carlson

12.17 Shut Down Before Power Outage

1. Purpose

The purpose of this procedure is to protect electrical and electronic equipment from sudden and unsupervised startup after the power is restored. This is necessary for the vacuum system and a good idea for computers. Pumps should not come on unsupervised after a shutdown since the degree of vacuum spoilage will be unknown.

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 ___ Power off all cryo compressors and heads, valve closed.
- 5.2 ___ Back fill ion source with ultra pure argon.
- 5.3 ___ Power off all ion pumps, valve open.
- 5.4 ___ Close machine gate valves.
- 5.5 ___ Close all vacuum valves in TtB sections 10 thru 13.
- 5.6 ___ Turn off all 303 controllers in TtB sections 10 thru 13.
- 5.7 ___ Ignore all TtB faraday cups and harps.
- 5.8 ___ Valve off air to TtB.

- 5.9 ___ Sensaphone off.
- 5.10___ Turn off Plectron to save batteries.
- 5.11___ Abort halon.
- 5.12___ All other equipment off.
- 5.13___ Chilled water pump off.
- 5.14___ Deionized water pumps off.
- 5.15___ SF6 Gas Panel - HCV valves closed, lock valves key switch.
- 5.16___ D1 power supply - disconnect IEEE cable and turn off.
- 5.17___ TR-4 computers (PCs and HP) and all equipment off.
- 5.18___ Close beam line valves TR-2 & TR-4.
- 5.19___ 303 controller in TR-4 off.
- 5.20___ Turn off racks TR-4.
- 5.21___ Both Miran systems off.
- 5.22___ Computers and monitors off. See list.
- 5.23___ TR-1 computer off.
- 5.24___ TR-2 computer off.
- 5.25___ Control room computers off (4).
- 5.26___ Apollo computer and video off.
- 5.27___ Lab 1 Vladimir's computer off.

5.28 The following items are only done if it is known that TtB power will go off.

5.28.1 ___ Close all vacuum valves in TtB.

5.28.2 ___ Turn off all 303 controllers in TtB.

5.28.3 ___ Ignore all TtB faraday cups and harps.

6. Documentation

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

7. References

None

8. Attachments

None