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

12.46 TR-2 60 Degree Line Startup

Text Pages 2 through 4

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials

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

C. Carson

12.46 TR-2 60 Degree Line Startup

1. Purpose

The purpose of this procedure is to define the sequence of activities required to set up the TR-2 60 degree line.

2. Responsibilities

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

3. Prerequisites

The person or persons executing this procedure shall have all formal training required of a TVDG Operator.

4. Precautions

None

5. Procedure

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

5.1 Perform the steps outlined in Setup For Target Room Operation

5.2 ____ Verify that the Fast Valve controller is plugged in and powered ON.

5.3 ____ Verify that the 2 Ion Pumps are On and open to the beam line.

5.4 ____ Verify that the 2 Cryo Pumps are On, Cold and open to the beam line.

5.5 ____ Set the Switcher to RIGHT deflection and the switcher gaussmeter to REV.

5.6 ____ Turn ON the target room quads.

5.7 ____ Verify that the Radiation Monitor is connected, working and properly located.

5.8 ____ Remove the Beam Plug.

5.9 ____ Connect and test the intercom.

5.10 ____ Verify that the Wall Faraday Cup goes in and out and, using a calibrated current source, verify that it reads correctly on the meter in rack 16.

5.11 ____ Verify that the 60 Degree Downstream Cup is patched Back to the Control Room.

5.12 ____ Verify that the TV camera produces a picture of the viewer on the Control Room Monitor above rack 17.

5.13 ____ Verify the integrity of the wall foils and insure that the correct wall foil is in place. Mark the foil position on the reference card at the Energy Detector Box in the Accelerator Room and in the Control Room.

5.14 ____ Turn on the MCA, preamp power supply, HV detector bias supply, amplifier and reference pulser and verify that the calibrator signal can be seen on the MCA at the correct channel. Mark the reference card in the control room with the detector being used.

5.15 ____ Determine the status of the previously used beam line. If the previously used beam line is not to be used in the near future, shut down all unnecessary systems related to that beam line.

5.16 Part 1

5.16.1 ____ Place the Lucite enclosure (interlock box) at the end of the beam line.

5.16.2 ____ Check that both microswitches inhibit the Image Cup.

5.16.2.1 _____ SW_1

5.16.2.2 _____ SW_2

5.16.3 Date: _____ Time: _____

5.16.4 Operation's Signature: _____

5.16.5 User Signature: _____

5.17 PART 2

5.17.1 _____ Place the proportional counter on to the end of the beam line.

5.17.2 _____ Check that the microswitch and pressure switch inhibit the Image Cup.

5.17.2.1 _____ SW_1

5.17.2.2 _____ Pressure Switch

5.17.3 Date: _____ Time: _____

5.17.4 Operation's Signature: _____

5.17.5 User Signature: _____

6. Documentation

The completed checklist shall be maintained in the TVDG Control Room.

7. References

7.1 Setup for Target Room Operations.

8. Attachments

None