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C-A OPERATIONS PROCEDURES MANUAL

12.45 TR-2 40 Degree Line Startup

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Hand Processed Changes

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

C. Carlson

12.45 TR-2 40 Degree Line Startup

1. Purpose

The purpose of this procedure is to define the sequence of activities required to set up the TR-2 40 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

- 5.1 Perform the steps outlined in [C-A-OPM 12.36 "Setup For Target Room Operation"](#).
- 5.2 Target Room 2 - 40 Degree West - Ortec Scattering Chamber Setup
 - 5.2.1 Put focused beam on wall cup, record beam current on run sheet.
 - 5.2.2 Center beam on mobile cup in chamber, record beam current on run sheet.
 - 5.2.3 Adjust horizontal and vertical sweep frequencies for a non-coherent raster as seen on the oscilloscope connected to the sweeper feedback coils. Record on run sheet, the raster on Polaroid film using time exposure.
 - 5.2.4 With horizontal sweep amplitude at 0, adjust vertical sweep amplitude for 1/2 the beam current on the center cup. Record on run sheet, the vertical sweep amplitude.
 - 5.2.5 With vertical sweep amplitude at 0, adjust horizontal sweep amplitude for 1/2 the beam current on the center cup. Record on run sheet, the horizontal sweep amplitude.

5.2.6 Set vertical sweep amplitude to the value determined in step 5.2.4.

5.2.7 Read the annular cup, calculate, and record on run sheet, the ratio between the center and annular cup.

6. Documentation

None

7. References

7.1 [C-A-OPM 12.36 “Setup for Target Room Operation”](#).

8. Attachments

None