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

12.30 860 or PSX-120 Source - Target Change

Text Pages 2 through 3

Hand Processed Changes

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

C. Carlson

12.30 860 or PSX-120 Source - Target Change

1. Purpose

The purpose of this procedure is to define the sequence of activities required to wire an 860 or PSX-120 source for pulse operation.

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

4.1 This procedure is governed by the 2-man rule. Proper care shall be exercised by the person or persons executing this procedure.

4.2 Enter the source cage only with a safety observer present.

4.3 Before starting the target change, if the diffusion pump is on, open the diffusion pump baffle valve. If the diffusion pump is off, do not take the time to start it.

4.4 Refer to C-A-OPM 12.31 "Hazards in the NII" for additional information.

5. Procedure

5.1 Note the Ionizer current. Lower the Ionizer current to about 15 amps.

5.2 Close the Low Energy Gate Valve

5.3 Close the Cryo Pump Baffle Valve.

5.4 Enter the Source Cage only with a safety observer present. Shut off Cs Accel.

5.5 Note how many turns out from the stop the Target Positioning Nut is. Slide the Target Holder back just enough to allow closing the Target Gate Valve.

5.6 Let the Target Insulator up with nitrogen and remove the Target Holder. Leave the Compression Nut, Ring, and O-ring on the Target Holder Rod.

5.7 Install the new Target.

5.8 Re-install the Target Holder.

5.9 Pump out the Source through the Gas Bleed Valve.

5.10 Close the Gas Valve.

5.11 Monitoring the vacuum, slowly open the Target Gate Valve.

5.12 Restore the Target Holder to the position noted in step 5.5.

5.13 Turn Cs Accel on.

5.14 Secure the cage.

5.15 Open the Cryo Pump Baffle Valve, and the Low Energy Gate Valve.

5.16 Bring the Ionizer back up to the value noted in step 5.1.

5.17 Setup the NII for the desired beam.

6. Documentation

None

7. References

None

8. Attachments

None