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C-A OPERATIONS PROCEDURES MANUAL

8.1.10 Tank Quadrupole Turn On

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Hand Processed Changes

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

V. LoDestro

8.1.10 Tank Quadrupole Turn On

1. Purpose

To provide instructions for Linac staff on how to turn on the pulsed tank quadrupole power supplies.

2. Responsibilities

Linac staff are responsible for turning on the tank quads.

3. Prerequisites

3.1 Control System should be operational running spread sheet.

3.2 Tank cooling water must be on.

3.3 The Linac Operations Coordinator shall be informed of the turn-on, as well as any problems encountered during turn-on, which could lead to significant delays.

3.4 Qualified and trained Linac staff.

4. Precautions

Do not operate supplies with doors or access panels removed.

5. Procedure

Power supplies and controls for quadrupoles in each tank are located along the lower equipment bay. The following turn-on procedure must be done for each of the 9 tanks.

5.1 Check that the main 460 VAC disconnect switch is on. This is located on the upstream end of each station, and is labeled "For Quad PS Only".

5.2 Turn on the two main breakers on the back door of the ACME PS's.

5.3 Check that all quadrupole malfunction lights are blinking. Indicating that all malfunction circuits are working, and the pulsers are receiving timing signals.

5.4 If the quad turn-on switch does not indicate a malfunction, clear the "Local Lock" and turn on the supplies. If a "Remote Lock" is indicated, this must be cleared by the appropriate tank quad switch in the Linac control room, rack F7. If a malfunction is indicated, check that the tank cooling water is on.

- 5.5 Check to make sure that the control settings for all tank quadrupoles, are at the last saved values.
- 5.6 In about 2-5 minutes after turn on of the supplies, all malfunction lights should be out. If a light remains on, check the corresponding pulsed supply. If a supply is bad, turn off all supplies for that tank, and follow the spare pulser replacement procedure.

6. Documentation

None

7. References

None

8. Attachments

None