

Collider Accelerator Support Group
Procedure A.12.0
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FES PROCEDURES AND INSTRUCTIONS

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SUBJECT: Testing Critical and High Risk Magnets

1. **PURPOSE:**

- 1.1 To provide FES personnel with guidelines for testing Critical and High Risk magnets.

2. **RESPONSIBILITIES:**

- 2.1 The Liaison Engineer (LE) determines when a magnet is classified as Critical or High Risk.
- 2.2 CAS and FES Group personnel are responsible for carrying out this procedure.

3. **PREREQUISITES:**

- 3.1 When applicable, an up-to-date Safety Review Sticker is attached to the magnet.

4. **PRECAUTIONS:**

- 4.1 None

5. **PROCEDURE:**

- 5.1 Receive permission from the LE and Experimenter for all initial and subsequent testing. **Definition:** Power Supply Installation Sheet (Run and Test) or a Maintenance and Operational Check-off of Beam Elements Sheet (White Sheet). **Definition:** Heat runs or requires testing following repair work.
- 5.2 Clear the area of personnel.
- 5.3 Clear the area of loose metals, tools, hardware, etc.
- 5.4 Complete the testing.
- 5.5 Inform the Experimenter and/or LE that the testing is completed.

Caution:

Do not leave the power supply(s) unlocked following an initial test without ensuring the critical element flag on Dibbuk and without L.E. approval.

6. DOCUMENTATION:

- 6.1 When applicable, the completed FES Maintenance and Operational Check-off Beam Elements Sheet
- 6.2 When applicable, the completed Power Supply Installation Sheet
- 6.3 CAS Work Control Log
- 6.4 Safety Review Sticker

7. REFERENCES:

- 7.1 None

8. ATTACHMENTS:

- 8.1 None