

**MUCOOL TEST AREA  
SOLENOID MAGNET PRE-OPERATIONAL  
SURVEY FOR FERROUS MATERIALS  
AND VERIFICATION OF POSTINGS**

The superconducting test magnet in the MTA experimental hall has an open bore configuration and is rated for 5 Tesla on-axis inside the bore. The magnetic field falls off rapidly away from the center of the magnet. Any ferrous objects left around the magnet could be pulled in with great force and cause damage to the magnet and other equipment inside and around it. In addition, any personnel standing between such an object and the magnet would be at risk of serious injury. Therefore, a clearly marked buffer zone, demarcated with warning signs and barricade, shall be maintained around the magnet when the magnetic field is present and a visual check performed before powering the magnet to ensure no potential projectiles have been introduced.

**THIS SURVEY AND VERIFICATION MUST BE PERFORMED AND DOCUMENTED ON THIS FORM EVERY TIME THAT THE MAGNET DC POWER SUPPLY GOES FROM A DE-ENERGIZED STATE TO AN ENERGIZED STATE. THE SURVEY AND VERIFICATION MUST BE PERFORMED IMMEDIATELY PRIOR TO ENERGIZING THE MAGNET DC POWER SUPPLY.**

**It is expected that the survey and verification will be performed after the MTA Hall has been secured, i.e., the survey and verification should occur after the MTA Hall is in Controlled Access mode.**

The following individuals are authorized to perform the ferrous materials survey and perform the verification that the postings and barricade are in place:

Alan Bross;  
Al Moretti;  
Jim Norem; and  
Yagmur Torun.

Completed forms are to be sent to AD/ESH MS 371 where they will be filed.

**Verification of Removal of Unapproved/Uncontrolled Ferrous Materials  
from the >300 Gauss Region Around the Solenoid Magnet**

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Signature/ID/Date/Time

**Verification of Magnetic Field Postings and Barricade  
Around the >300 Gauss Region Around the Solenoid Magnet**

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Signature/ID/Date/Time