

# E08-027/007 Safety Guidelines

October 18, 2011

The current experiment in Hall A poses an unusual safety hazard associated with its use of a specifically designed polarized target at the pivot:

Large attractive forces may be exerted on materials brought near the superconducting polarized target magnet (located on the lower platform deck around the Hall A pivot point). As the target scattering chamber has thin windows (protected by  $\frac{1}{4}$ " polycarbonate except for beam entrance and exit and the scattered electrons), equipment attracted towards the magnet and piercing the vacuum windows may cause an implosion, followed by a possible explosion due to the rapid expansion of cryogenic fluids.

For this reason access to the lower platform is **prohibited** to all workers except under the following circumstances:

1. Work has been authorized by the Hall A Run Coordinator (cellular 757-876-1787) and Ed Folts, the Hall A Work Coordinator (cellular 757-876-1788).
2. The superconducting target magnet field is de-energized.
3. A radiation survey has been performed.
4. All vacuum window shields on the scattering chamber are verified to be in place.
5. Hearing and Fall protection guidelines are followed.

This means that **NO** radiation survey of the lower platform is **allowed** unless the polarized target magnetic field is **off**.

## **Access Controls**

- Hall A Work Coordinator (Ed Folts) is single point of access of contact for Outside Workers who want access to Hall A. Hall A Work Coordinator will consult with Run Coordinator before allowing Outside Workers access to the Hall.
- Run Coordinator may deny access until experiment is in a condition to allow work to proceed safely.
- Shift Leader is only person authorized to request transition to Restricted Access. Shift Leader must have the concurrence of the Run Coordinator and the Physics Liaison before making request.
- Run Coordinator must insure that the magnetic field is off before allowing access to the lower platform.