Experimental Safety Assessment Document for E99-007

This experiment is full compatible with the base equipment in Hall A. Specifically it will utilize the following equipment:

- Standard Hall A beam line: The beam is the same as used in previous Hall A experiments
- Hall A Scattering Chamber and Cryotarget System: The cryotarget system is part of the base equipment of Hall A.
- The High Resolution Spectrometers (HRS) with their standard detector systems.
- This experiment will use neither HRS angles less than 12.5° nor greater than 150.0°.
- For the 3 highest Q^2 points, the electron is detected in coincidence in a lead-glass calorimeter which is on a stand on the hall floor. The Right-HRS is then unused. The calorimeter consists of 147 blocks of lead-glass SF5. Their cross section is 15×15 cm^2, and their length is either 30 or 35 cm. They are arranged in an array of 9 columns and 17 rows. To fill the gaps at the corners, 6 wooden blocks are placed (2 at the bottom, and 4 at the top). The Cerenkov light is detected in a photomultiplier tube Philips XP2050, and the signal is split there: one is send in an ADC, the other in the TDC. ADC's and TDC's are located inside the Right-HRS detector hut. 125-feet-long cables run from the PMTs on the floors to the electronics in the hut. The high voltage crate is located on the Hall A floor.

  The calorimeter is located on a platform that can be moved using the standard Hall-A crane. Movement of the platform is only done by Ed Folts and the Hall A technical staff. All work done on the platfrom must first be approved by Ed Folts. It is forbidden to step on the platform without a harness.