

Experimental Safety Assessment Document (ESAD)
for Hall A Experiment E05-004
May 15, 2005

The $A(Q)$ at low Q in ed elastic scattering experiment is scheduled to run in Hall A from August 16 through August 27, 2006, and from September 22 through September 30, 2002. The experiment is fully compatible with the base equipment in Hall A except for one addition. Specifically, the experiment will use:

- the standard Hall A beamline
- hydrogen and deuterium cryotargets, using the 4 cm machined cells, and various solid targets, as described in the Hall A OSP
- the two High-Resolution Spectrometers (HRS) in the standard angle range, above 12.5 degrees, as described in the Hall A OSP, and
- standard HRS detector packages, as described in the Hall A OSP

The one addition is a beam calorimeter used to measure the total energy in the beam over a short time (minutes). In conjunction with beam energy measurements, this device is used for a high precision calibration of the beam current monitors at low currents. The beam calorimeter is mounted on the Hall A beamline on the bench just upstream of the scattering chamber. An OSP is being written for the beam calorimeter.