

Experimental Safety Assessment Document (ESAD)  
for Hall A Experiment E04-018  
October 19, 2006

The experiment “Elastic Electron Scattering off  $^3\text{He}$  and  $^4\text{He}$  at Large Momentum Transfers” (E04-018) is scheduled to run from November 29 through December 22, 2006 and from February 24 through April 25, 2007. Specifically, the experiment will use:

- The standard Hall A beamline, as described in the Hall A OSP.
- Liquid hydrogen and high-pressure Helium-3 and Helium-4 cryotargets, using the 20 cm machined cells, and Al solid target for background measurements, as described in the Hall A OSP.
- The two High Resolution Spectrometers (HRS) in the standard angle range, above 12 degrees, as described in the Hall A OSP.
- Standard HRS detector packages, as described in the Hall A OSP

The E04-018 experiment is fully compatible with the base equipment in Hall A.