

Experimental Safety Assessment Document (ESAD)
for Hall A Experiment E03-101
May 30, 2006

The ^3He Hard Photodisintegration experiment is scheduled to run in Hall A from June 7 through June 29, 2007. The experiment is fully compatible with the base equipment in Hall A except for one minor addition. Specifically, the experiment will use:

- the standard Hall A beamline
- helium-3 and deuterium cryotargets, using the 20 cm racetrack cells
- 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 the Bremsstrahlung photon radiator, mounted to the wall of the scattering chamber; this is the same radiator that was used for the Hall A deuteron photodisintegration experiment run during 2006. Safety considerations for the new radiator are very similar to those for the standard Hall A photon radiator, described in the Hall A OSP.