

Experimental Safety Assessment Document (ESAD)
for Hall A Experiment E05-103
May 15, 2005

The Low Energy Deuteron Photodisintegration experiment is scheduled to run in Hall A from July 21 through August 15, 2006. 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
- hydrogen and deuterium cryotargets, using the 15 cm machined cells, 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 new Bremsstrahlung photon radiator. mounted to the wall of the scattering chamber. Safety considerations for the new radiator are very similar to those for the standard Hall A photon radiator, described in the Hall A OSP. An OSP is being written for the new radiator.