

5 January 2007

### **Summary of the Discussion of the Future of the ep System**

During the Hall A collaboration meeting, Douglas Higinbotham led a short discussion of the future of the ep system. In most general terms, there are three possible futures for the system: upgrade it so it is compatible with the CEBAF energy upgrade, maintain it as is, or remove it to free space along the Hall A beamline.

The discussion mainly focused on whether or not it would be useful to upgrade the system so that during the 12GeV era we would still have two devices for measuring the energy. The discussion ended with no clear answers, other than that the system should be maintained for the present time and the upgrade possibilities should be investigated.

### **Action Items**

- 1) As a summer project to work on system reliability. (During the coffee break, Pete Markowitz indicated he might have a student to work with me on this.)
- 2) Get more beam-time to keep the system operable.
- 3) Check if a cross calibration of the upgraded ARC vs. ep at 2.2 and 4.4 GeV would be a sufficient calibration of the upgrade ARC.
- 4) Investigate if by moving detectors (electron and/or proton) the device could be made to work at higher energy, e.g. 6.6 GeV.

I thank the collaboration for their input.

Sincerely,  
Douglas Higinbotham