g2p/gep Target Meeting Minutes

Date: 3/10/2011

Attendees : J. P Chen, C. Keith, J. Pierce, K. Allada, J. Zhang, Al. Gavalya, N. Kalantarians M. Huang, P. Zhu , M. Cummings, Ed. Folts, A. Camsonne, M. Defurne et.al

1. Target update: (J. Pierce, C. Keith)
    1. Working on fridge, pumps, target inserts and ordering necessary parts.
    2. Looking into transfer lines to see how to connect from Hall-A lines to the buffer dewar and where to place pumps etc.
    3. Working with Ed Folts and A. Gavalya for the above item.
    4. Refurbishing the top of the magnet (James?)

2. Magnet status:
    1. C. Keith mentioned 14th March as the shipping date from Oxford
    2. Several things needed to be done after the magnet is on-site
        1. Survey, machine work etc..

3. List of targets: (J. Zhang):
    1. Two NH3 cells
    2. One reference cell (empty with windows)
    3. Thick carbon (no windows)
    4. Small targets: one thin carbon and other one can be Ta or Al (not final yet)
    5. Prefer to use CH2 target one time for angle calibration, in addition to the carbon target.
    6. CH2 will melt without raster, so need to find smallest raster size for not melting CH2.
    7. A cross-wire can placed on the end-caps for online beam position determination.
4. J. Pierce mentioned that the two small targets will be on the extreme upstream edge. This is due to the limitations of where the microwave horn is located.

5. Al Gavalya pointed out a potential problem to the rubber o-rings on the exit windows which are close to the local beam dump. The O-rings can potentially get damaged due to the radiation
    1. J. Pierce and Ed. Folts suggested using some combination of aluminum and Indium to avoid this kind of problem.
    2. Al will look more into this issue.

6. J.P. Chen asked if there is any opportunity for students to work in the target lab. Josh mentioned that since most of the work is still in design and fabrication stage, students may not be helpful at this time. Once target is put together then students will have chance to participate.