

# Operability Report

## 1/30/2008

### Accelerator

Machine energy at 908 MeV/pass

- 1L04 is still causing BBU problems when the total linac current  $> 350\mu\text{A}$
- Accelerator BLM activity may be related to the BBU problem
- Keep KREST running to minimize energy spread in Hall A
- Keep pathlength errors as low as possible to minimize energy spread in Hall A
  - Monitor FFB signals and run tune beam if needed
- No CW beam to the BSY dump
  - Raster magnet sets off VESDA

### Hall A

Quasi-Elastic Electron Scattering

- **1 Pass, 0.960 GeV, Max current 60uA**
- **Hall A has several different lead targets**
- Try to complete pass changes as efficiently as possible
- Beam in the Compton chicane
  - Hall A beam delivery procedure has been revised to minimize count rates
  - Pathlength and RF phasing may help lower Compton rates as well
- Many target changes
  - Try to do them as fast as possible
- 1H04A target OTR is working
- Combined optics loaded with Moeller quads on
- Calorimeter is disabled for this run
- Keep FFB on in position and energy mode
  - Slow target lock on

### Hall B

FROST

- **5 Pass 4.592 GeV, Max current 30 nA**
- Take 2C24 harp scans and fopt data to the hall B tagger dump before and after Hall pass changes
- Keep the Tagger viewer on. Set the "Hall B T Dump" input to MaxVid 1 Data on the Video Cross point Switcher whenever it is not in use elsewhere.
  - **Remember to run the setup script for Hall B Tagger Dump if needed**
- Current instabilities may be caused by A1, A2 steering
- Hall B controls their own Asymmetry feedback loop (IA)

### Hall C

GEP/GMP via recoil polarization

- 5 pass 4.592 GeV; Max current 80 uA
- When setting up a Moller run, you do not need to load the Moller combined optics, just turn on the two Moller quads and steer the hall line. The Moller quads settings are provided by the hall. Leave the Moller quads off after the Moller run is complete. Q2 power supply may require access by hall expert to turn on.
- Take fopt data with beam to the Hall C dump before and after Hall A pass changes

- **FFB on in position mode**
  - Slow target lock on
- **Hall C vacuum leak downstream of the target chamber**
  - Possibly from the dump diffuser
- **Target valve 3H00C FSD bugged**
  - 3H00B will still close and pull the FSD