

# Operability Report

## 5/30/2007

### Accelerator

Machine energy at 1.02 GeV/pass

- **Bunchlength with A and C beams vs. capture phase**
  - Investigation in progress
- **Revised RF separation procedure released**
- **2L15 vacuum faults**
  - SRF investigation but no cause yet
- **AT07 BPM bad position indications**
  - RF module wiring corrected by EES
- RF instability when Halls A and C are at high current may show up at BLM faults
- Special slow gradient recovery needed for 1L05 after a trip
- The cathode is the Old bulk GaAs material
  - There are bleed through issues
    - Check laser phases vs. transmission

### Hall A

(Elastic Electron Scattering Off  $^3\text{He}$  and  $^4\text{He}$ )

- **2 pass 2.037 GeV; Max current 105 uA**
- **Will change to 4 pass 4.137 GeV on Thursday 5/31 or Friday 6/1**
- New optics loaded with Moeller quads off
- Keep FFB on in position and energy mode
  - **Slow target lock?**
- Target OTR is working

### Hall B

Kaon Photoproduction on the Deuteron Using Polarized Photons

- **5 Pass 5.157 GeV; Max current 30 nA**
- Unstable nA BPM's
  - Check for dispersion or match problems in the higher arcs
    - ORFP
- Unstable current and current spikes
  - Adjusted hall B laser phase and lowered hall B slit value
- Aspect ratio
  - Use smart knobs, viewers, and harps (Hall B procedure)
- **Drop to restricted access**
  - **Failed truck ramp roll up door switch replaced by PSS**

### Hall C

E05-017

- **3 pass 3.177 GeV; Max current 80 uA (100 uA for calibration run)**
- FFB on in position and mode
  - **Slow target lock?**