

# Operability Report

## 6/6/2007

### Accelerator

#### Machine energy at 0.804 GeV/pass

- The accelerator has been running well since the Wien angle was set back to zero
  - The experts will do all Wien changes until the procedure is modified
- RF still has the beam loading issue when both A and C request max current
  - RF instability when Halls A and C are at high current may show up at BLM or BCM faults
- Bunchlength with A and C beams vs. capture phase
  - R Kazimi Investigation in progress
- Revised RF separation procedure released
- Check E03 corrector settings during pass change. Large offsets may have been scaled in during the energy change
  - J Bnesch agreed and will modify MST files
- Capture phase needs some adjustment to compensate for temperature instability  
The Capture phase adjustment is necessary to get rid of 3C12 BLM trips  
Hall A beam transports better than Hall C beam. Hall C beam has a tail
- Zone 1L09 tripped off due to beamline vacuum fault. 1L08-8 gset was lowered and 1L09-1 was bypassed, which resolved the issue for now
- AT07 BPM bad position indications
- MYR9R03, MAO9R03 shunt communication faults (not in alarm handler)
- The cathode is the Old bulk GaAs material

### Hall A

#### (Hard Photodisintegration of a Proton Pair)

- 5 pass 4.065 GeV; Max current 50 uA
- Harp at 1H03B limit switch needs adjustment. Move beam up vertically or use the 1H03A harp
- New optics loaded with Moeller quads on
- Keep FFB on in position mode
  - Slow target lock on

### Hall B

#### Kaon Photoproduction on the Deuteron Using Polarized Photons

- 5 Pass 4.065 GeV; Max current 30 nA
- Unstable nA BPM's
  - Check dispersion AND match in the higher arcs with 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)

### Hall C

#### E05-017

- Changed from 4 pass to 5 pass (4.065 GeV) on June 19. Max current 80 uA (100 uA for calibration run)
  - Max current limited by RF power and total linac current
- FFB on in position and energy mode
  - Slow target lock on