Operability Report
12/5/2007

Accelerator

Machine energy at 611 MeV/pass

- **Energy change to 700 MeV/pass on Friday 12/7**
- **1L04 will be turned back on Friday 12/7**
- **2L08 will cause linac liquid level alarms whenever LEM is run in the SL**
  - **Follow guidance in PD shift plan to add 30 watts of heat to this zone**
- **RF phase drifts in the injector may show up as Hall B current instabilities**
- **Underground chilled water leak has been isolated and bypassed**
- **LCW temperature regulation problems**
  - **May cause RF instabilities. Repairs will be planned when parts arrive.**
- **Energy changes will be performed by Ops using the procedure**
  - **Additional experiment specific steps may be called out in a reconfiguration plan**
- **3 identical fiber lasers installed with superlattice photocathode**
- **Check E03 corrector settings during pass change. Large offsets may have been scaled in during the energy change**
  - **SOF values in the nT00A and nT00B BPMs and Gold BPM orbits are still being investigated**
- **Consult EES for guidance on beamline vacuum faults**
  - **Raise vacuum set points vs. lower cavity GSET**
- **RF instability in the main machine may show up as BLM or BCM faults**
- **No CW beam to the BSY dump**
- **Raster magnet sets off VESDA**

Hall A

Quasi-Elastic Electron Scattering

- **2 pass 1.256 GeV; Max current 50 uA**
  - **Change to 1 pass 0.739 GeV on 12/7**
- **Try to complete pass changes as efficiently as possible**
  - **Use the written guidance provided**
  - **Return cw beam to Halls B and C once you have tune beam steered to the Hall A dump**
- **Beam in the Compton chicane**
  - **Draft procedure has been written to minimize count rates**
- **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 mode**
  - **Slow target lock on**

Hall B

FROST

- **4 Pass 2.478 GeV; Max current 30 nA**
  - **Change to 5 pass 3.539 GeV on 12/7**
- **Take 2C24 harp scans and fopt data to the hall B tagger dump before and after Hall A 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**
- **Current instabilities may be caused by injector warm RF phase drifts**
- **Hall B controls their own Asymmetry feedback loop (IA)**

Hall C

GEp/GMp via recoil polarization

- **3 pass 1.867 GeV Max current 80 uA**
  - **Change to 4 pass 2.839 GeV on 12/7**
- **Moeller commissioning completed. Standard optics loaded**
  - **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 and energy mode**
  - **Slow target lock on**