D0 Status Report

Bill Lee
NIU

All Experimenters' Meeting
10 July 2006

Data Taking

Day	Delivered Lum (pb^{-1})	Recorded Lum (pb^{-1})	Efficiency (%)	Comment
3 July	1.98	1.61	81	1 hour down for CFT problem. Access for Forward muon PS
4 July	2.47	2.24	91	Beam glitch 1 hour to replace Lumi vertex board
5 July	4.01	3.27	82	Mycom trip
6 July	3.27	2.87	88	STT problems. Solenoid lead leak repaired
7 July	2.90	2.15	74	Two hours down for Muon PDT
8 July	3.92	3.42	87	
9 July	1.52	1.32	87	Access

3-9 July	20.1	16.9	84	

Significant Events

- Monday – 3 July
  - Took cosmics for the owl shift
  - Access for Foward Muo PS, L1muo, PDT, and Cal
  - An hour down for CFT
  - PDT front end problem correlated with pbar halo spike
- Tuesday – 4 July
  - Another beam glitch tripped forward Muon/L0
  - An hour down to replace Lumi vertex board.
    - no luminosity reported during this time

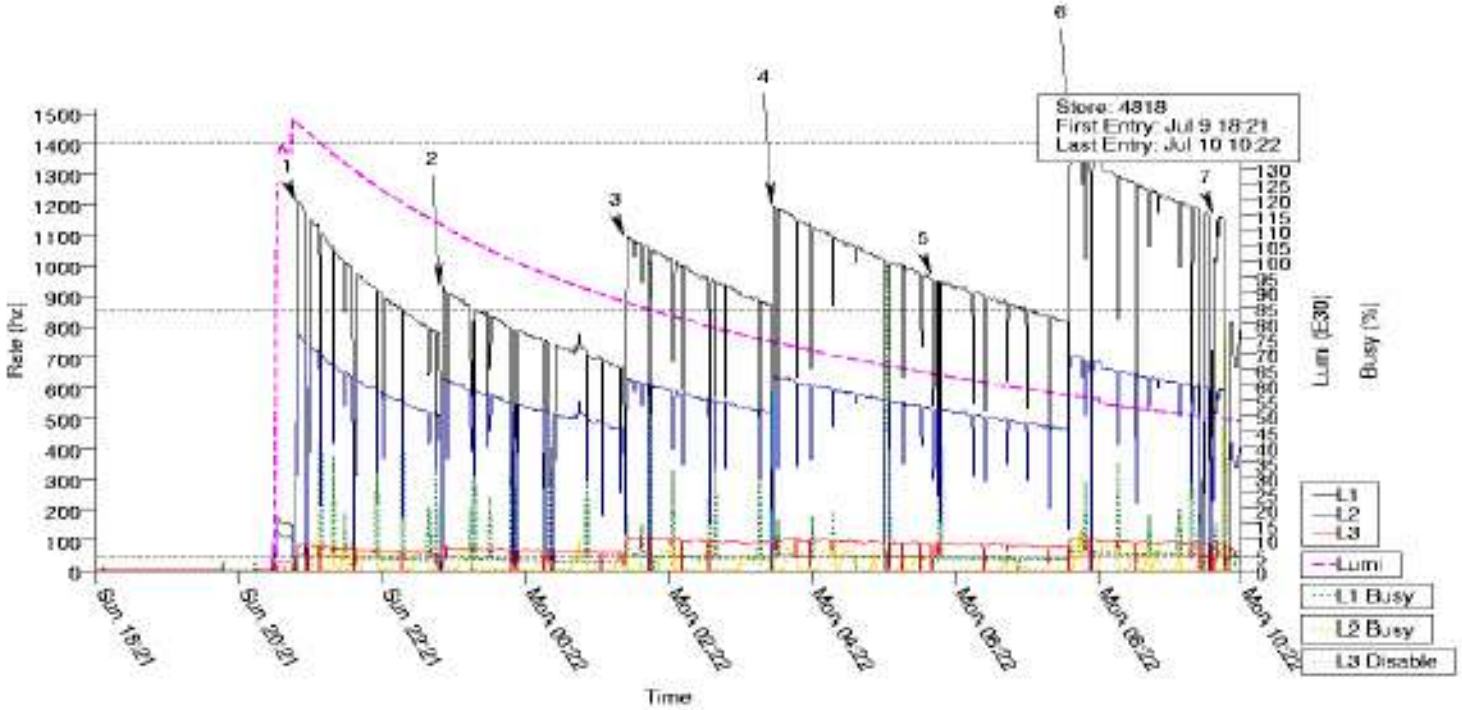
Significant Events

- Wednesday – 5 July
  - High VLPC cryostat temps paused run
    - mycom trip from clogged strainer
  - FPD started to move pots in, but quench threat postponed further activity.
  - Silicon Track Trigger(STT) readout crate problems begin.
- Thursday – 6 July
  - 30 min for more STT problems, crate taken out of runs.
  - Between stores:
    - Power down solenoid and warm lead

Significant Events

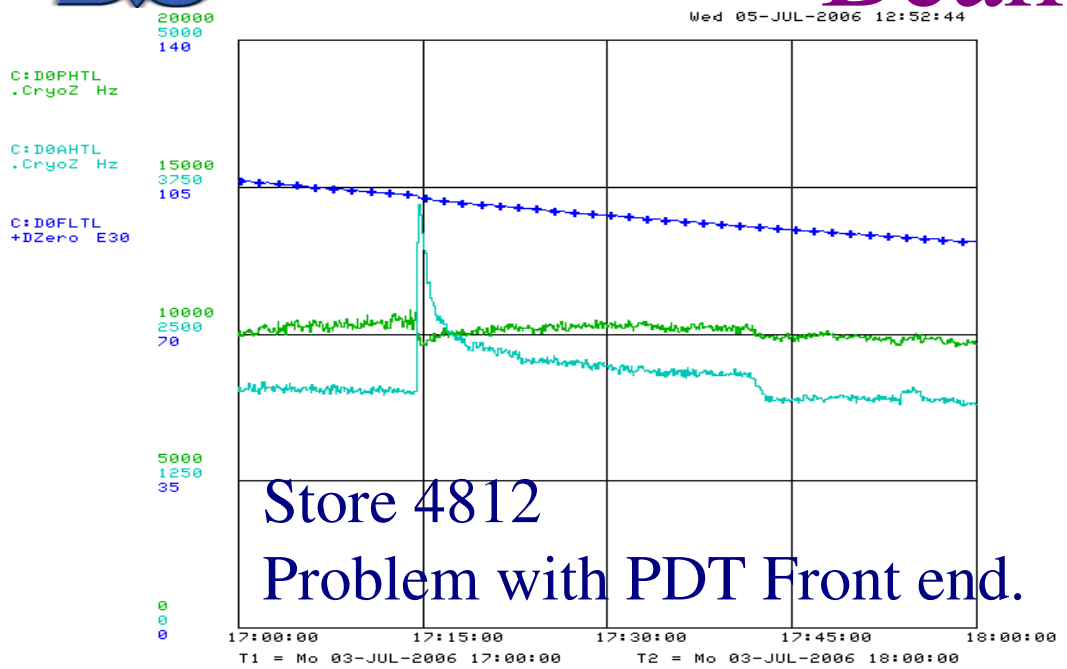
- Friday – 7 July
  - Two hours down for a failed Muon PDT.
- Sunday – 9 July
  - Access
    - Repaired L1Muon trigger card
    - Downloaded new SMT sequencer firmware.
    - Replace several Calorimeter daughter cards.
    - Test Central Fiber Tracker AFE2 board.
  - Calorimeter Pre-amp power supply begins tripping ~twice per hour.

Cal Preamp

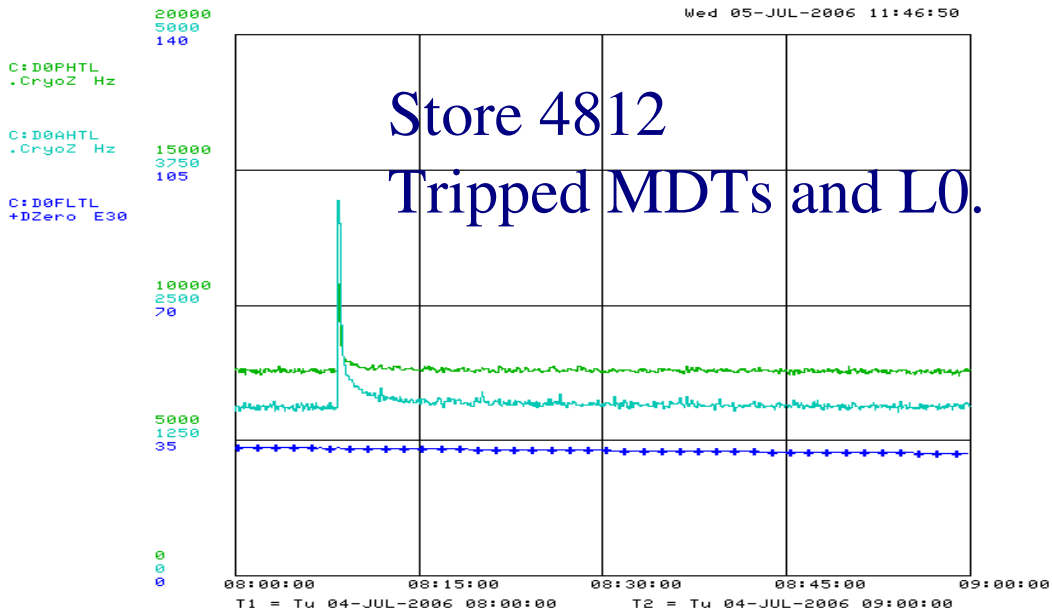


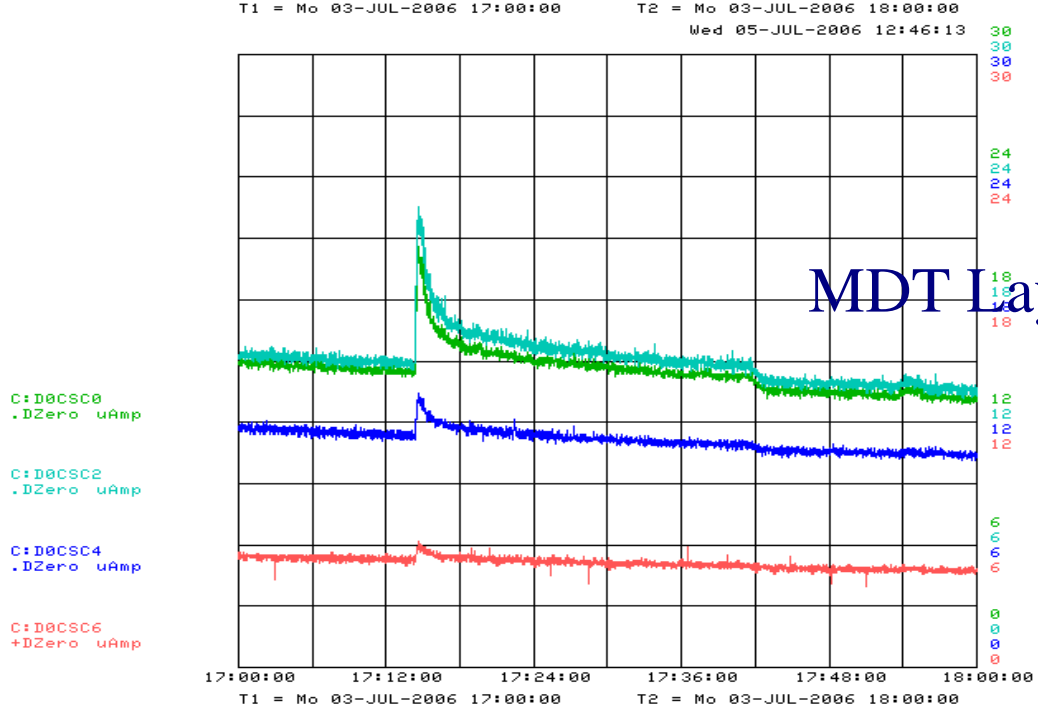
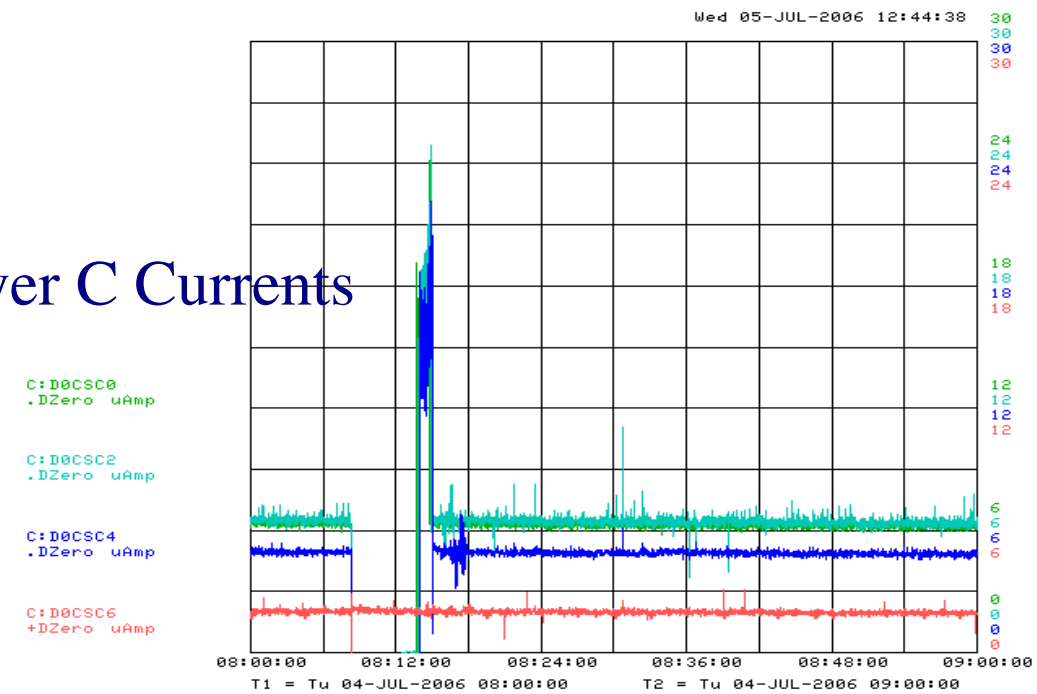
- Frequent interruptions can be seen from trips of the CAL pre-amp power supply.
  - We are investigating solutions, but a failure of the pre-amp supply would require a long access.

Beam Glitches



Store 4812
Problem with PDT Front end.



Store 4812
Tripped MDTs and L0.

MDT Layer C Currents