D0 Status Report

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All Experimenters' Meeting
18 July 2005

Daily Data Taking

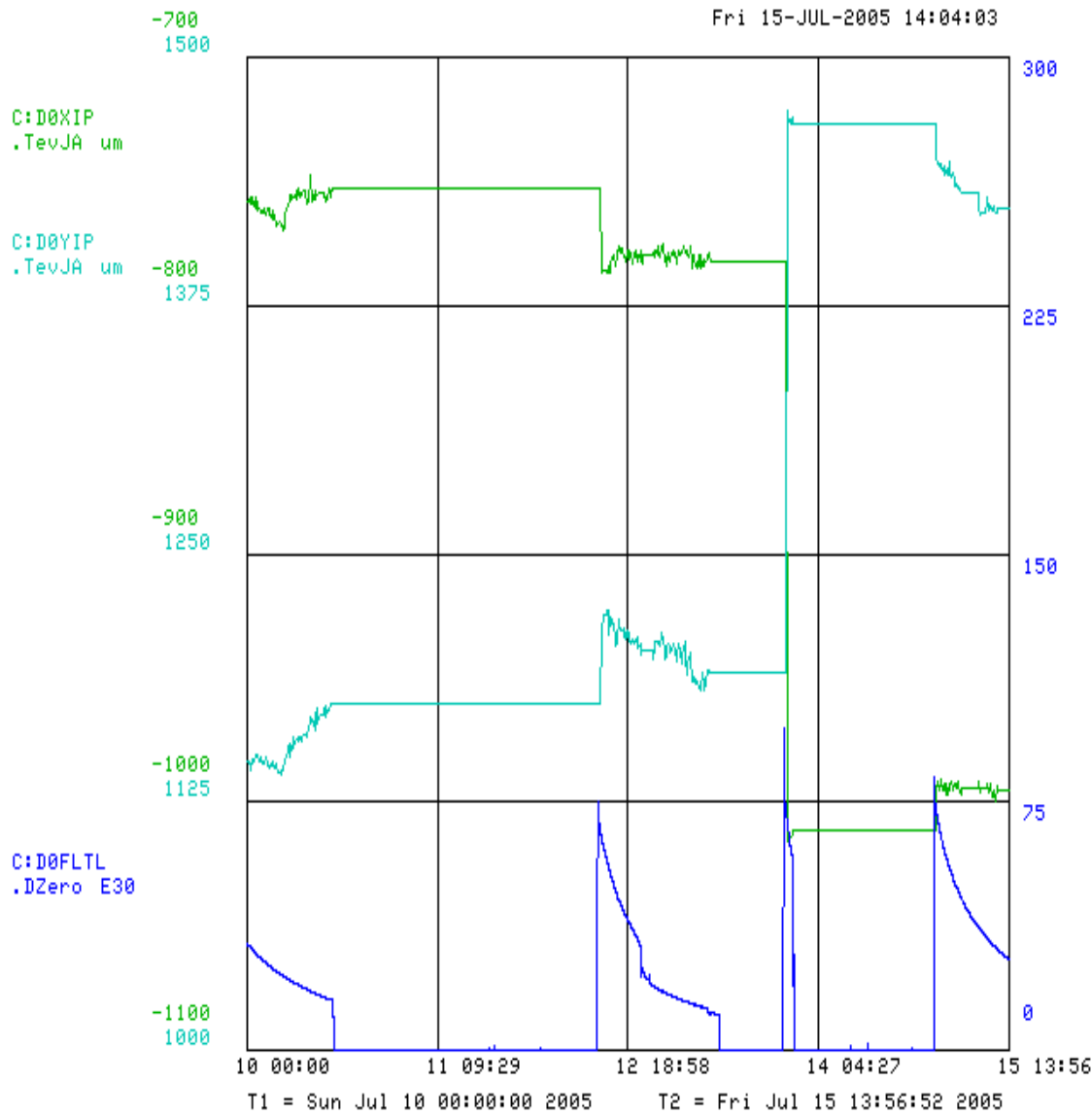
Day	Delivered Lum (pb^{-1})	Recorded Lum (pb^{-1})	Efficiency (%)	Comment
11 July	0	0	-	Access to repair PDT and CTT
12 July	1.34	0.95	71	CTT problems
13 July	0.84	0.73	88	
14 July	0.04	0	0	Access to replace Muon PS and fix CTT
15 July	2.68	1.88	70	Access to fix Muon Scintillator crate and STT sector
16 July	2.93	2.39	81	Level 3 Farm problems
17 July	3.01	2.25	75	STT crate issues and a Silicon rack trip
11-17 July	10.8	8.2	76	

Notable events

- 11 July
  - Access to investigate Muon PDT HV trips and another attempt to repair CTT sectors. Second access to fix CTT inputs to STT.
- 12 July
  - Downtime of 1.5 hour at beginning of store due to bad CTT sector.
- 13 July
  - New version of trigger list in use as of store 4271.
- 14 July
  - Tev Quench sets off integrated radiation dose alarm and kills a muon power supply. Access to replace supply and fix CTT.

Notable events Cont.

- 15 July
  - After running for 3 hours, two octants of central muon scintillator stopped working.
    - The terminator on the backplane had to be reseated.
    - Took special runs for the rest of the day.
  - Access to fix muon scintillator crate and STT sector.
- 16 July
  - Total downtime of 1.5 hour due to L3 farm nodes.
    - Some older nodes would die, and the farm would lose track.
- 17 July
  - Multiple downtimes
    - 25 min – prescale tests for new trigger list.
    - 1 hour – STT crate stopped reading out.
    - 45 min – Silicon readout rack tripped off.

Beam Spot

- On Thursday, there was a change in the D0 beam spot from its nominal position of (-750, 1200) mm to (-1000, 1400)
  - While this does not presently compromise our data, it does put us on the edge of our acceptance and any additional movement away from the center will cause us to lose efficiency.
  - The AD plans to move the beam spot back on Tuesday.