D0 Status Report
6/26/2006

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Fermilab

Data Taking for 6/19 – 6/25

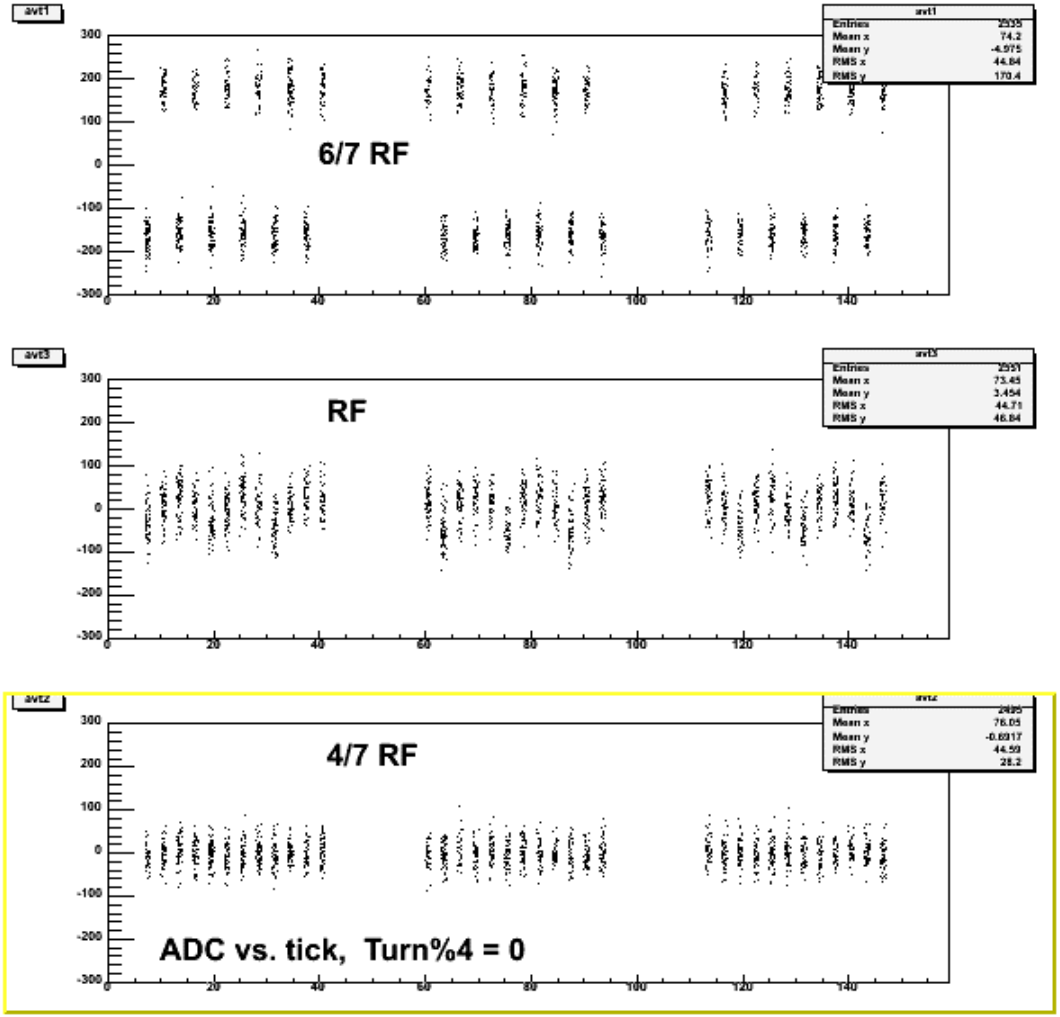
Day	Delivered	Recorded	Eff.	Comments
6/19 (Mon)	3.4 pb^{-1}	3.0 pb^{-1}	89 %	
6/20 (Tue)	2.9 pb^{-1}	2.2 pb^{-1}	74 %	Special Cal Calibration runs with A-layer PDTs off
6/21 (Wed)				Two shift access
6/22 (Thu)	0.2 pb^{-1}	0.003pb^{-1}	1.3 %	Data taking delayed due to an SMT sequencer problem at the beginning of the store
6/23 (Fri)	1.3 pb^{-1}	1.1 pb^{-1}	84 %	
6/24 (Sat)	2.6 pb^{-1}	1.4 pb^{-1}	55 %	2 hour downtime due to L2 and muon readout problem. 2.5 hour downtime due to L2.
6/25 (Sun)	2.8 pb^{-1}	2.2 pb^{-1}	77 %	Took two special runs for trigger studies

6/19-6/25	13.3 pb^{-1}	9.9 pb^{-1}	75 %	

Notable Events

- 6/20 (Tue)
  - Took special Calorimeter calibration runs with A-layer PDT's off.
- 6/21 (Wed)
  - Two shift access to download the firmware that temporarily reads out the PDT A-layer with 53 MHz clock, using CoBo's modified during the shutdown.
  - Controlled access key tree replaced.
  - Four AFE II production boards tested.
  - A problematic back plane cable in a BLS crate repaired.
  - An SMT heat exchanger replaced.
  - Downloaded singlet only CTT firmware.
  - Luminosity power supply upgraded.
- 6/22 (Thu)
  - Switched to singlet only trigger in CTT.
  - Data taking delayed at the beginning of store 4794 due to SMT sequencer problem.

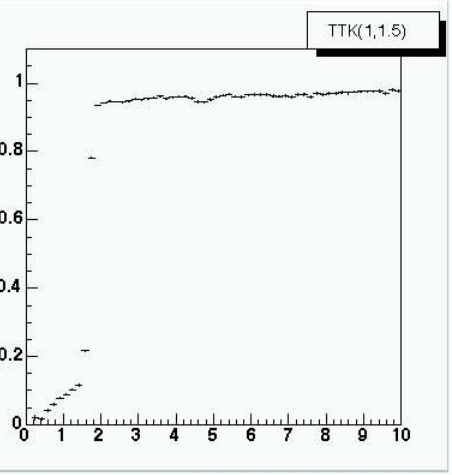
A-layer PDT pipeline clock and Cal noise

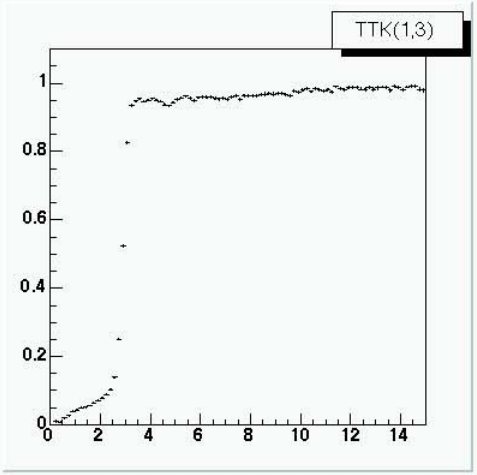


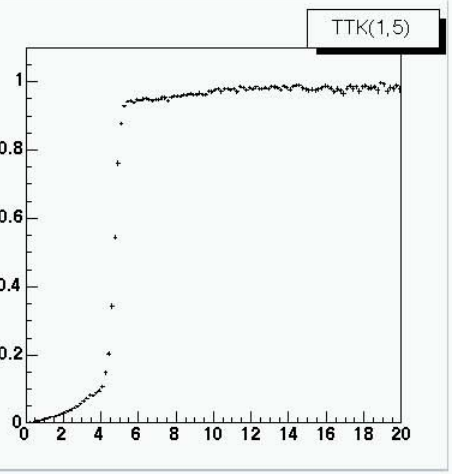
- Cal noise strongly correlated to A-layer PDT pipeline clock.
- Modified the clock speed back to 53 MHz during the two-shift access.
- Data show clear improvement in Cal noise.
- Developing firmware to fascilitate PDT readout using 4/7 clock, which will accommodate L1CalTrack trigger.

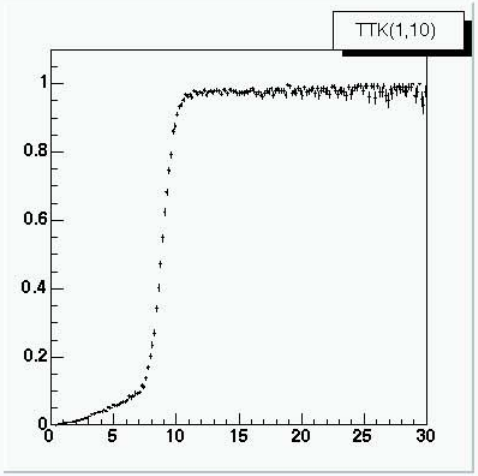
CTT Offline Verification

Run IIa

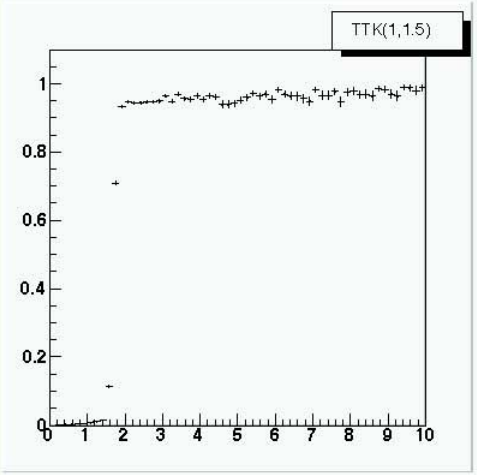


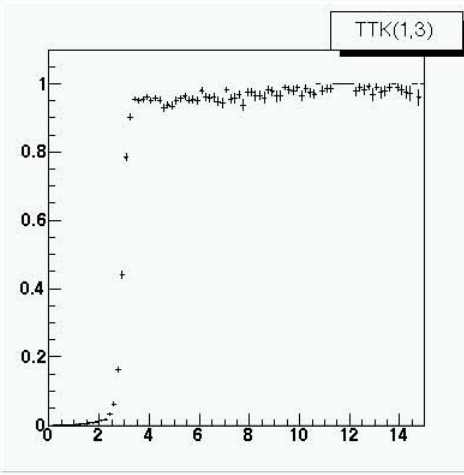


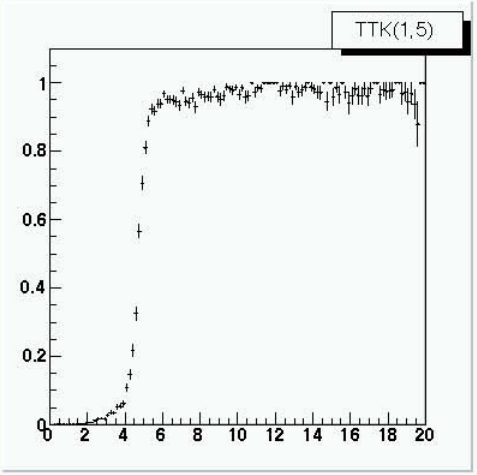


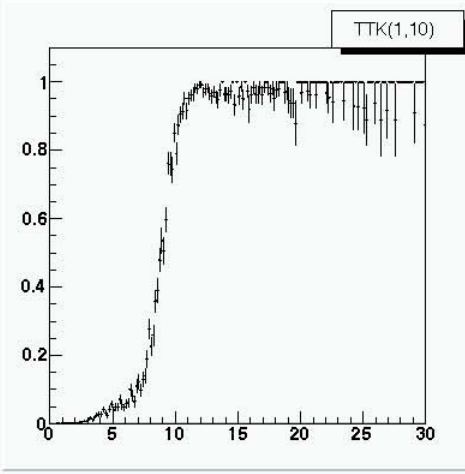


Run IIb





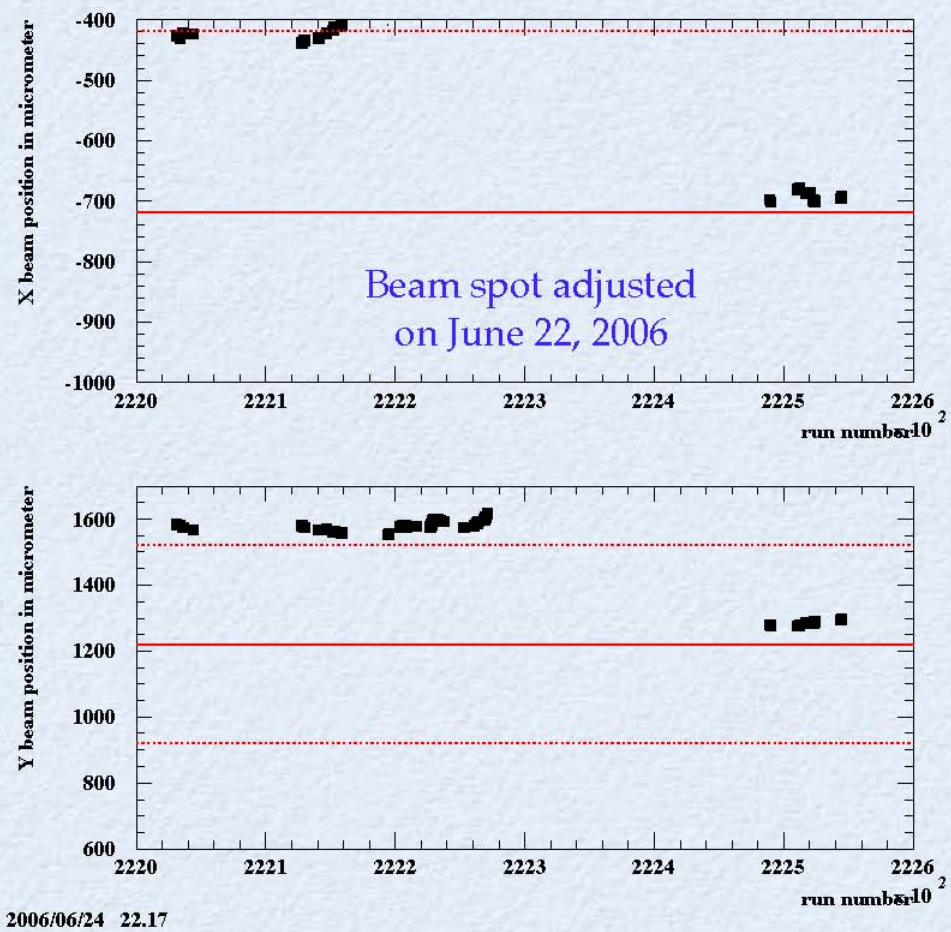


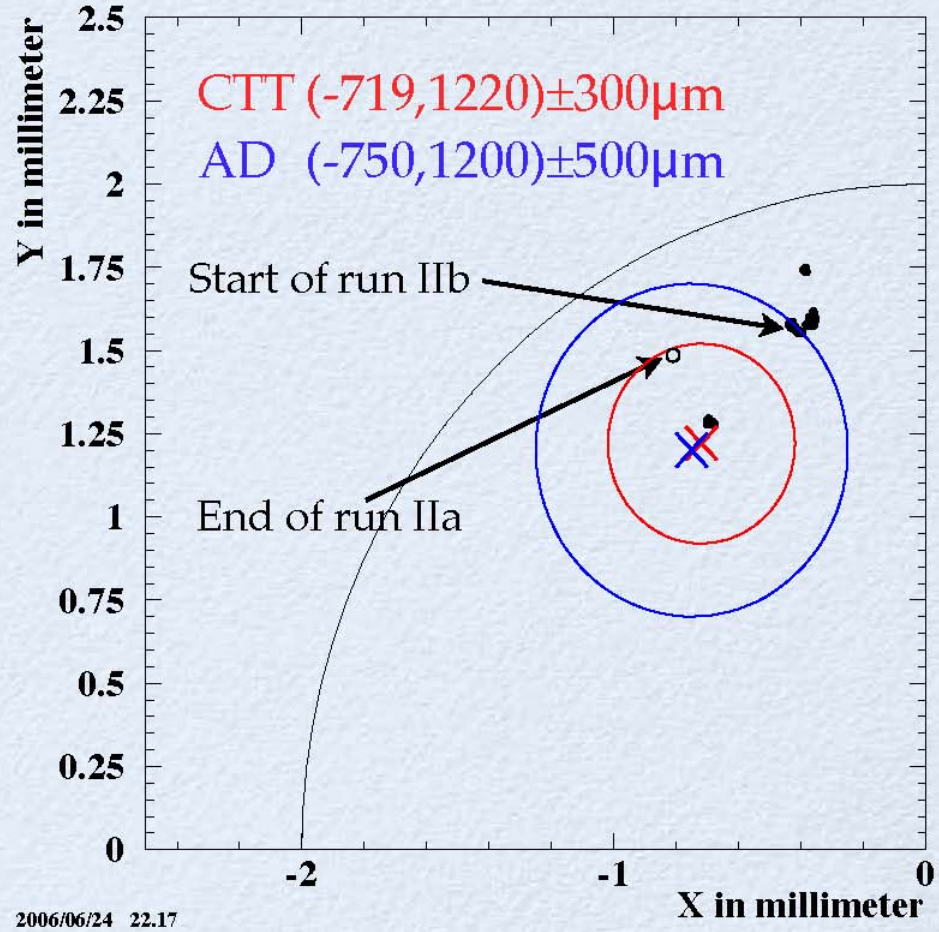


Notable Events

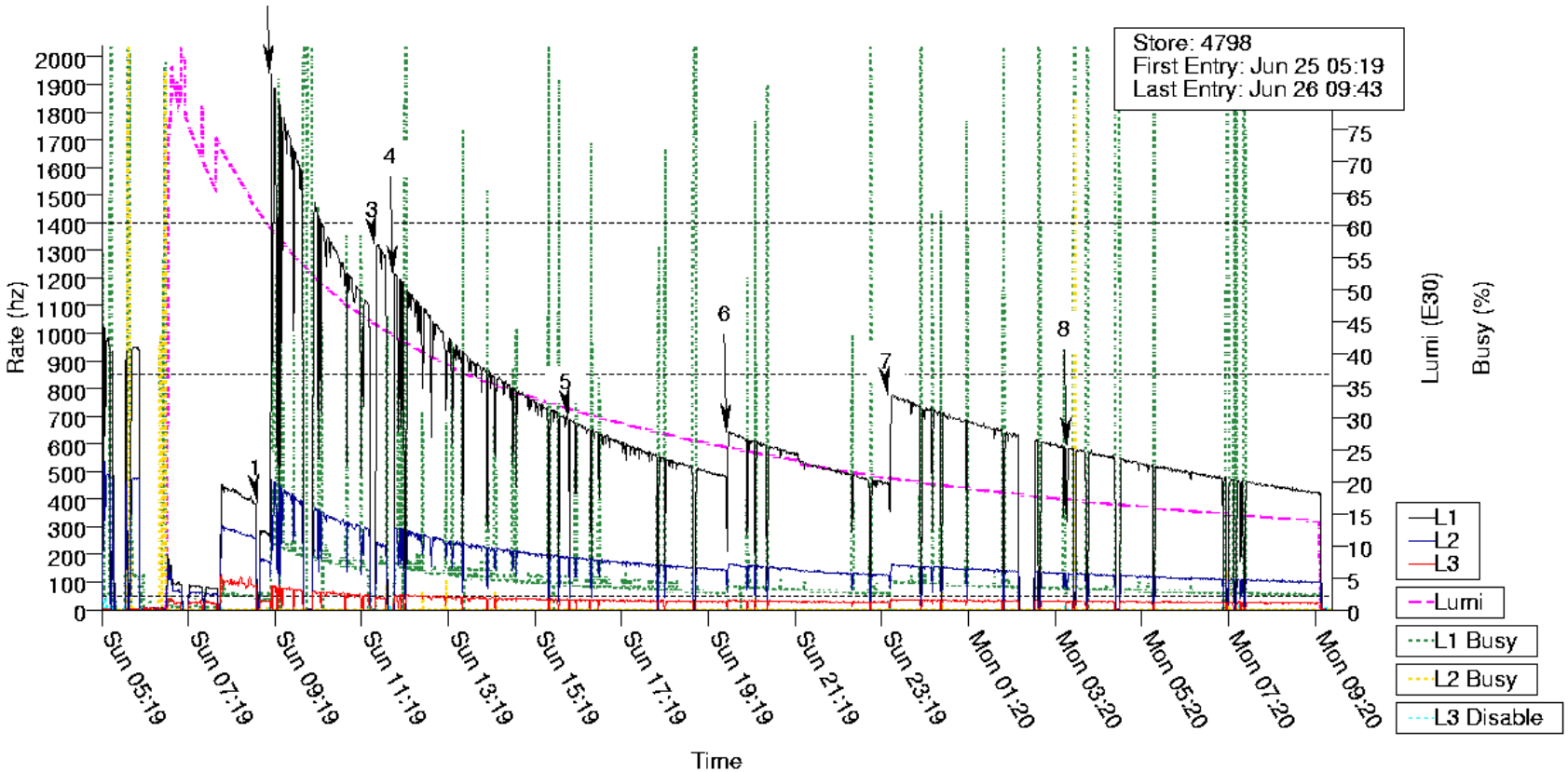
- 6/23 (Fri)
  - IP moved back to Run IIa nominal position.
  - Received L1CalTrack ORC.
- 6/24 (Sat)
  - 2 hour downtime due to L2 and muon readout problem.
  - 2.5 hour downtime due to L2.
- 6/25 (Sun)
  - Took two special runs for trigger rate studies.

Beam spot (start run IIb)

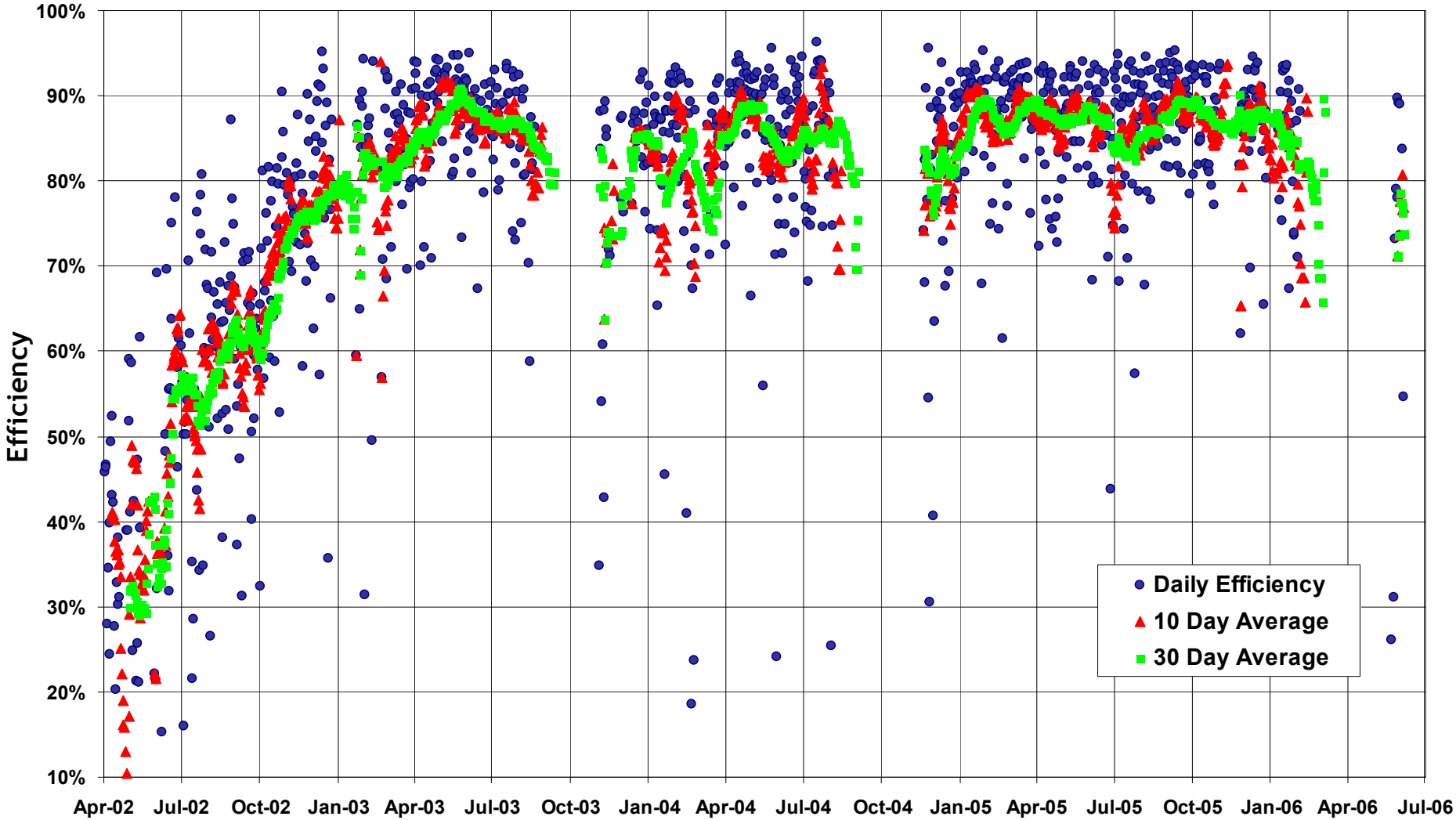




Rate plot for store 4798



- Running relatively routinely.
- But the pre-shutdown system stability has not yet been re-established.

Daily Data Taking Efficiency

19 April 2002 - 26 June 2006