D0 Status Report 10/30/2006

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Fermilab

Data Taking for 10/23 – 10/29

Day	Delivered (pb^{-1})	Recorded (pb^{-1})	Eff. (%)	Comments
10/23 (Mon)	1.26	0.96	76	Frequent FEB from SMT crate x66.
10/24 (Tue)	1.41	1.27	90	
10/25 (Wed)	3.63	2.81	77	20 min downtime due to a problem in SMT crate x6a SBC. 90 min downtime due to clock adjustment and various DAQ problems. Took special runs for AFEII timing studies.
10/26 (Thu)	4.43	3.26	74	29 min downtime due to a CTT problem 40 min downtime due to SMT sequencer problem at the beginning of store 5030.
10/27 (Fri)	4.04	3.37	84	36 min downtime due to SMT controls problems. 56 min downtime due to the main Online node crash.
10/28 (Sat)	6.19	4.70	76	26 min downtime due to difficulty in ramping SMT. 1 hour downtime due to SMT crate x68 and 7 hours with x62 and x68 out of global runs. 37 min downtime due to SMT sequencer problem.
10/29 (Sun)	0.73	0.65	89	

10/23–10/29	21.69	17.02	78	

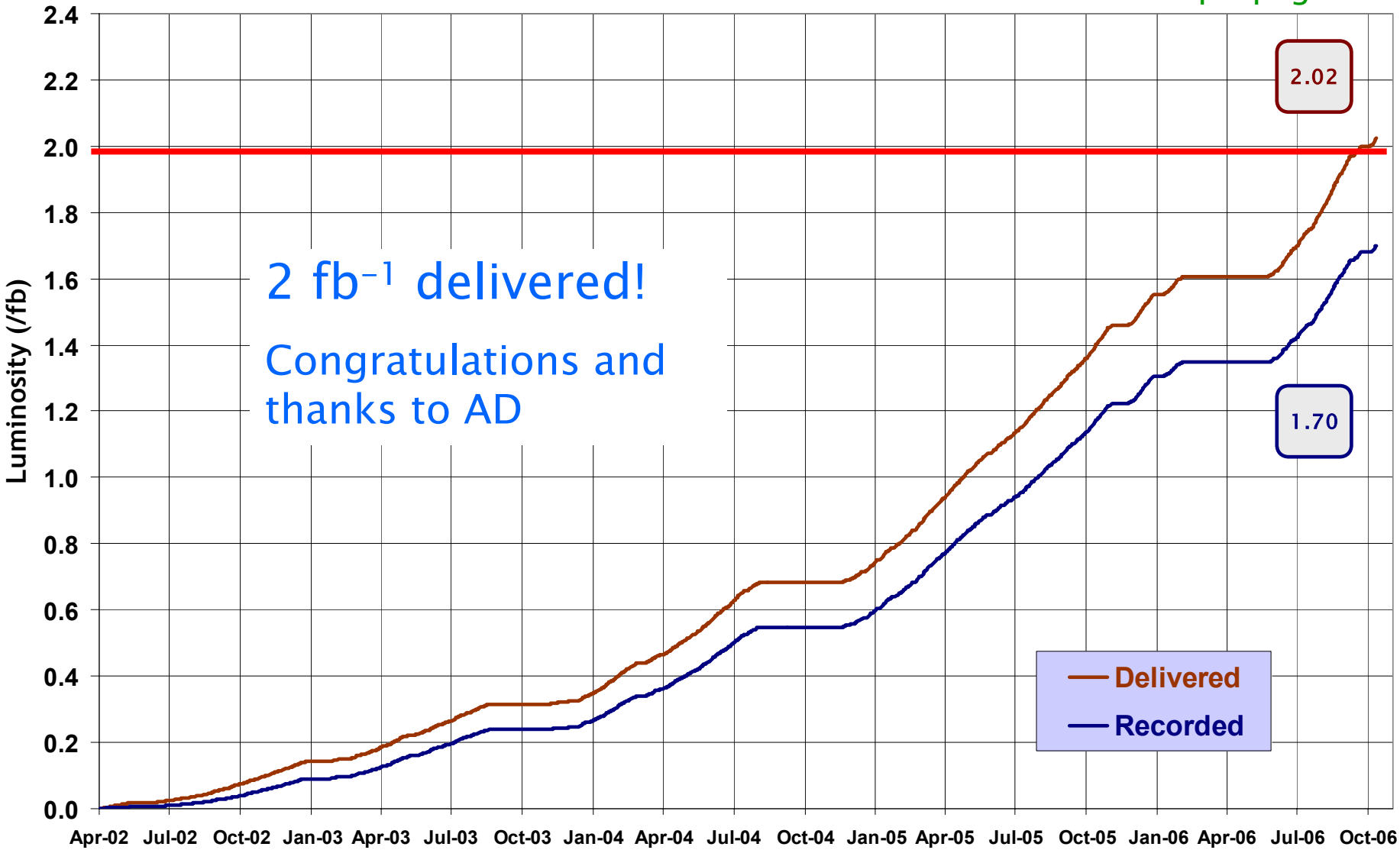
Downtime Summary

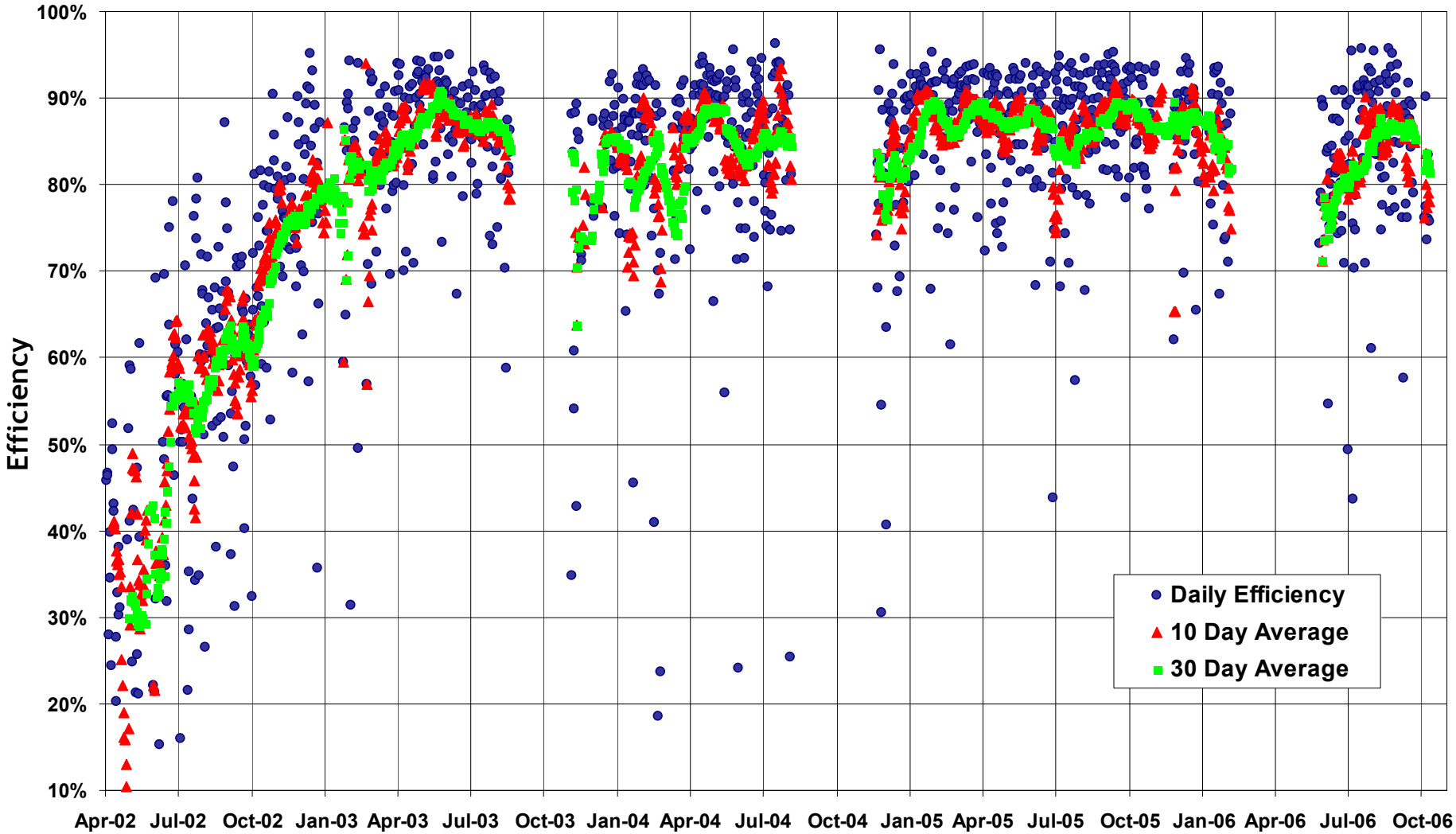
- Unusually high rate of downtime this week.
  - Most downtimes were due to SMT problems.
    - SMT download GUI updated on Thu.
    - But the new version was reading the development database that had incorrect bad channels list.
    - The bad channels that were not disabled by the new download GUI caused DAQ problems.
  - Shifter errors.
  - Main Online node crash.
    - Online DAQ cluster node fails over to a backup node when a problem with the node is detected.
    - The DAQ processes are not yet flexible enough to take advantage of this failover mechanism.
      - Experts are working on this issue.
    - 3rd time in the last one month.
      - Probably related to the increased rate of data written for the calorimeter calibration.

Run II Integrated Luminosity

19 April 2002 - 29 October 2006

After the new normalization constants were back propagated.



Daily Data Taking Efficiency

19 April 2002 - 29 October 2006