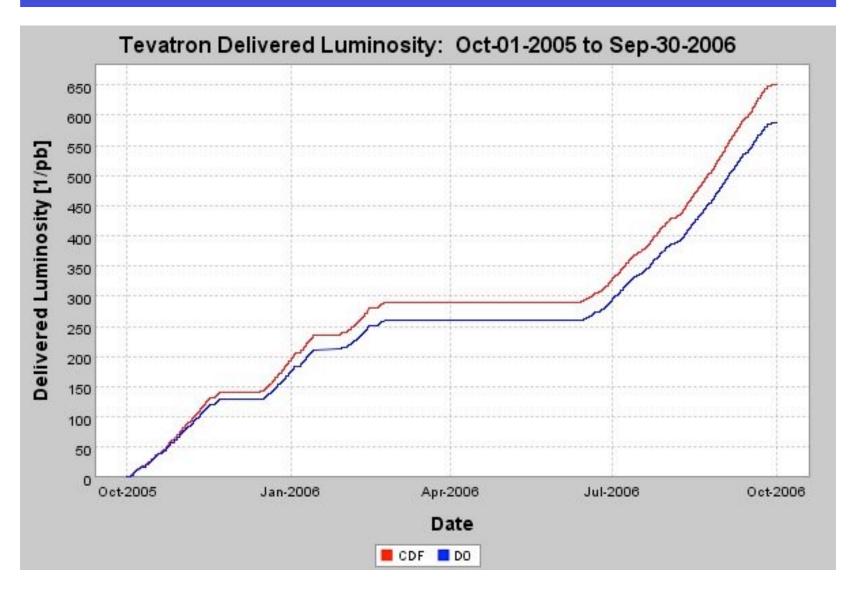


Run II Operations Summary

R. Dixon

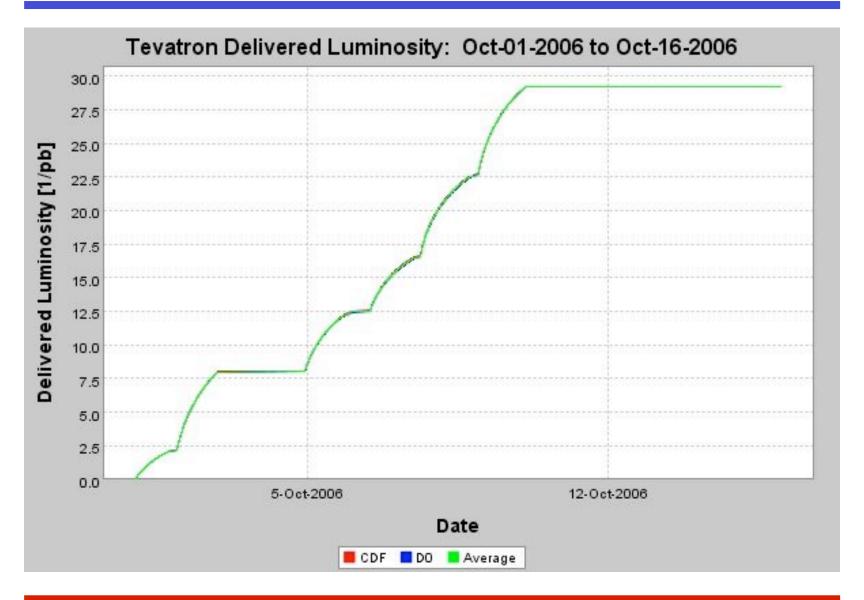


FY06 Integrated Luminosity



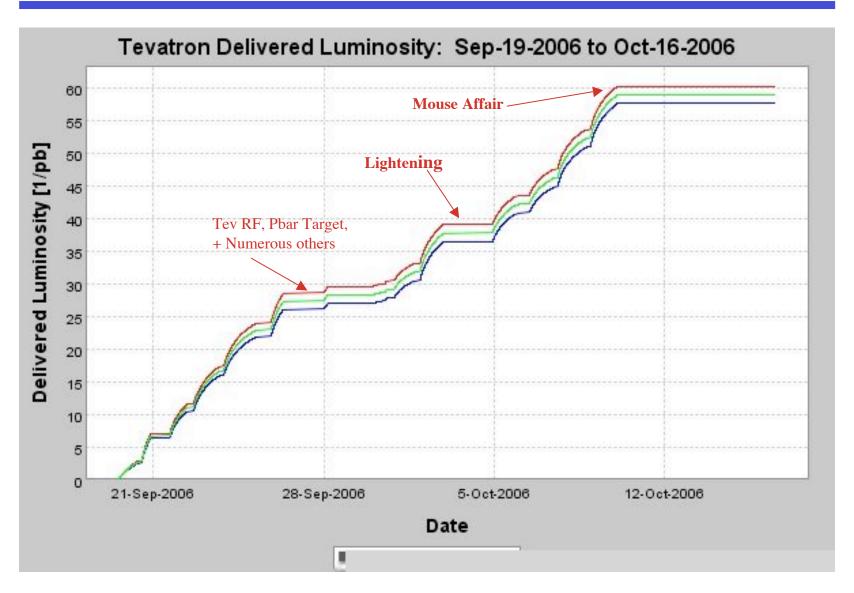


FY07 Luminosity





Monthly Integrated Lumonisity





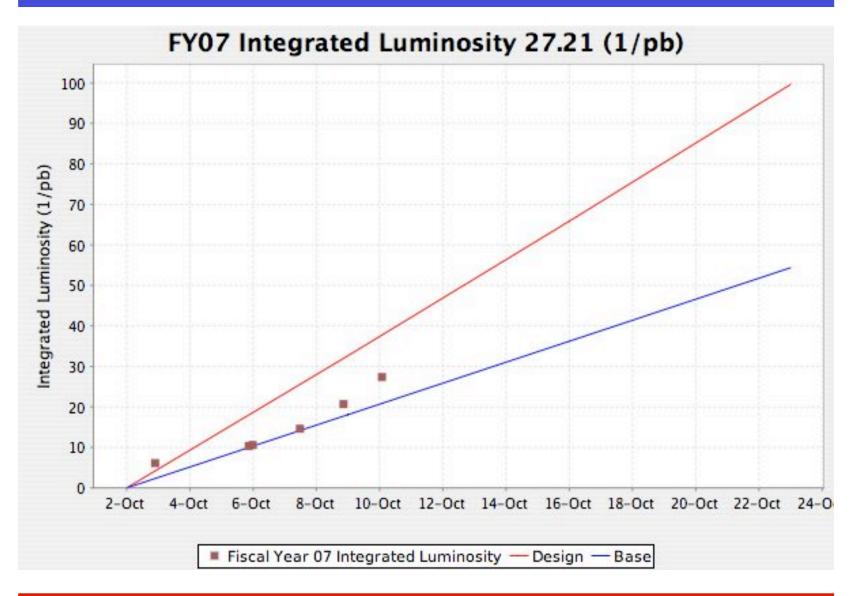
Downtime Synopsis

- Store 4975 was lost at 08:30 when TRF1 tripped off due to
- cavity water flow.
- F17 kicker would not come on due to low fluorinert level.
- The Tevatron turn on was delayed due to
- problems with D0Q2. Stacking was also held off until later
- in the day after the target rotation was repaired. Stacking
- began at 14:27.
- Shot set up did finally begin on the evening shift after a
- set of Tevatron IPM studies were completed. Store 4975 was
- colliding by 19:56 with an initial luminosity of 186.8E30.
- The horizontal sextupole power
- supply in Main Injector tripped off at 01:18 and again at
- 03:16. Experts were called in to inspect the supply after it
- failed to turn on following the second trip.
- Store 4975 was lost at 08:30 when TRF1 tripped off due to
- cavity water flow. The loss of the store prompted a 12 hour
- period of maintenance that was originally scheduled for
- later in the week.

- There were problems with the TEL
- while loading protons, and the Tev ended up quenching while
- beam was ramping for the store.
- The Tevatron was recovering from the quench caused by the
- DQ0 reversing switch.
- An HEP shot followed the first pbar transfer and
- store 4990 was colliding by 12:30 with an AIL = 85 E30. The
- store lasted just short of two hours when it was lost due to
- a quench at F4
- Store
- 4996 collided until 22:08 when it was aborted during a
- lightning storm due to a D0 SVX indication.
- The complex was down for controlled
- access into the Booster, MI, Tevatron, and Antiproton
- Source. Numerous shutdown jobs were completed, but the
- accesses were driven by failures related to the previous
- night's lightning storms.

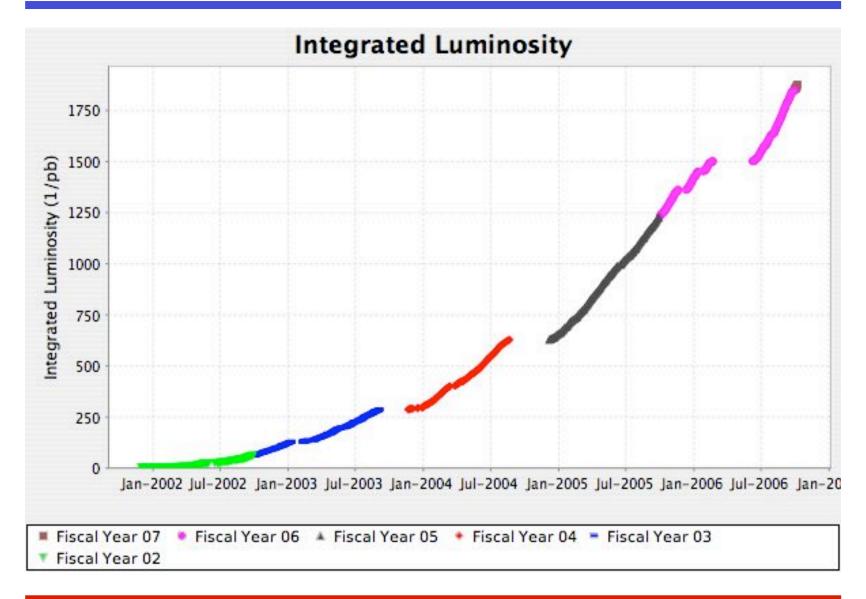


Yearly To Date



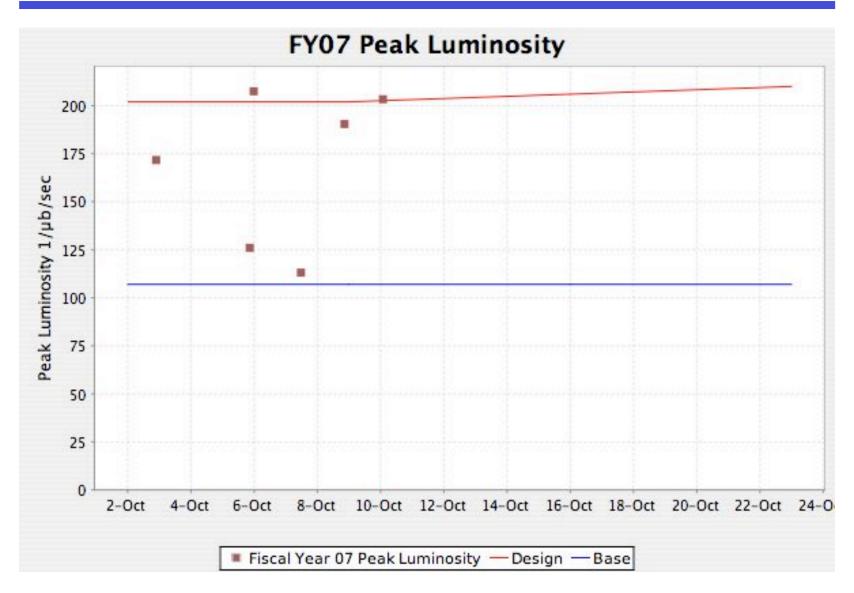


Total Integrated Luminosity for Run II



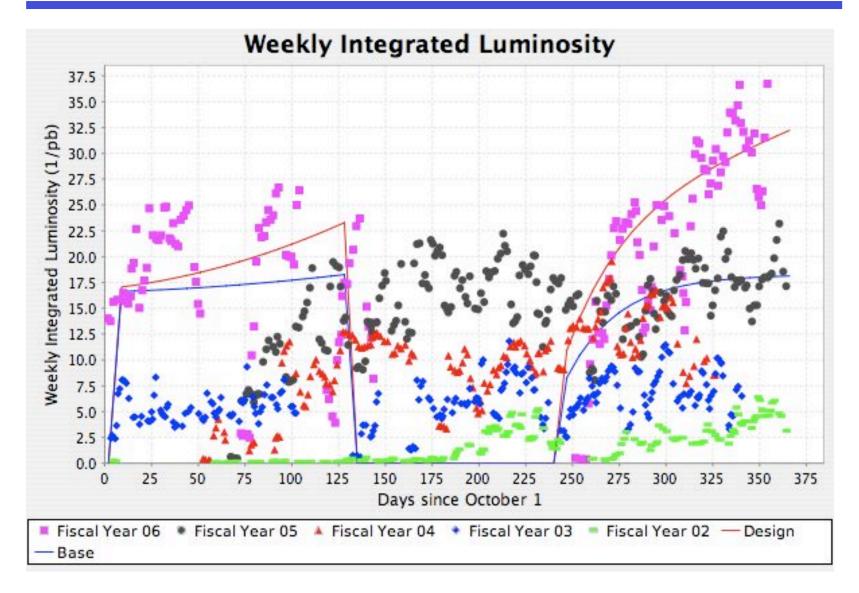


Peak Luminosity





Weekly Luminosities (X5)





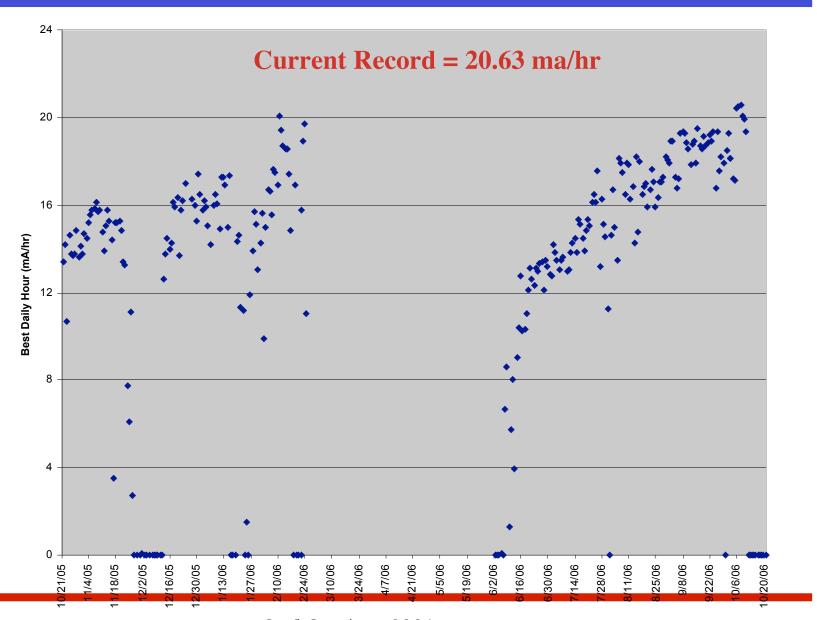
Store Log to Show Records

1	5003	10/5/06	0.33	Abort	209.13	1933.99
2	5008	10/8/06	27	LowBetaQuenc	206.95	1950.75
3	5007	10/7/06	30.16	Normal	192.58	1944.03
4	4975	9/25/06	12.5	Abort	186.81	1919.02
5	4996	10/1/06	23.17	Abort	171.97	1929.51
6	4970	9/22/06	25.9	Normal	167.92	1907.82
7	4972	9/23/06	33.74	Normal	163.29	1914.47
8	4967	9/21/06	17.17	Abort	154.76	1902.13
9	5002	10/4/06	22.64	Normal	127.04	1933.76
10	5006	10/6/06	25.16	Normal	114.2	1938.04
11	4981	9/27/06	3.83	TevQuench	90.59	1920
12	4990	9/30/06	1.84	TevQuench	85.12	1920.9
13	4994	9/30/06	20.87	Normal	81.28	1923.54
14	4989	9/29/06	11.26	Normal	16.98	1920.44

7 out of 14 "Normal" Terminations



Best Hour of Stacking Each Day





Activities During Present Downtime

- Replaced Accumulator Quad (A:6Q14)
- Fixed Water Leak in HV101
- Replaced D32-5, D33-1, and D35 spool (broken corrector-- not damaged in Mouse Incident)



The Chain of Events

- HEP store 5008 happily spinning
 - Record # pbars injected into Tev, record # pbars reach HEP start
- Mouse seeks Feeder 46B cubicle as possible new, cozy home
 - > Flashover + resulting nasty power glitch affects many systems
 - > Many UPS units switched over
- Tevatron ramp begins to dump on A2 power supply trip
 - Beams aborted cleanly
- 1.2 sec into ramp dump, D3 QPM reboots (Quench Protection Monitor)
 - > Why? Glitch not filtered out by UPS? UPS tested fine later...
 - > As designed, QPM fired heaters, generating whole-house quench
- ≈4 sec into ramp dump, ground fault developed in D3
 - > D32-5 dipole failed

The Culprit



Holes from D32-5 dipole arcing? beam tube

HV101 Magnet Showing Magnetic Shielding





Summary

- Performance-- not so good
- Stacking-- still trying to get on improvement curve