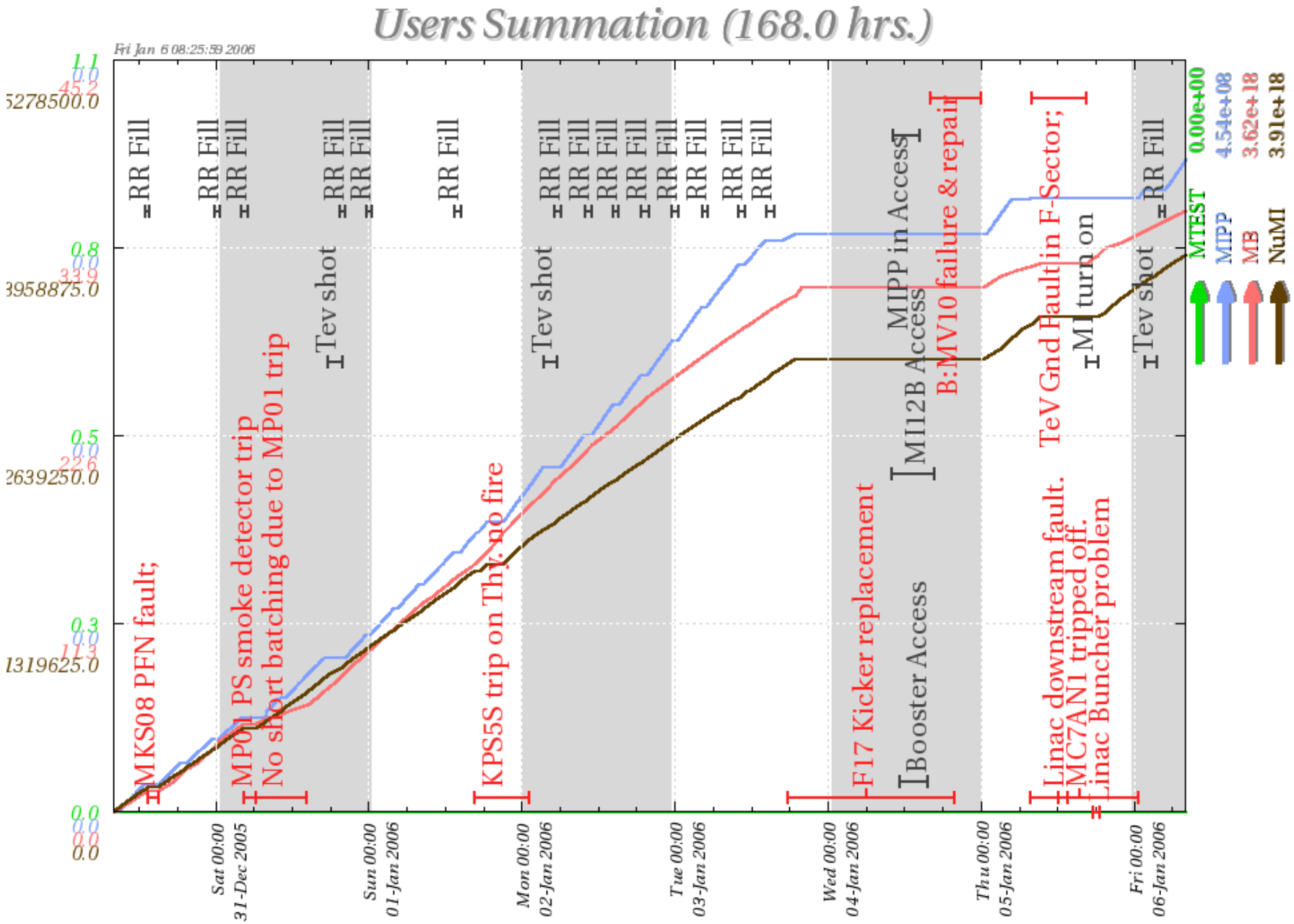
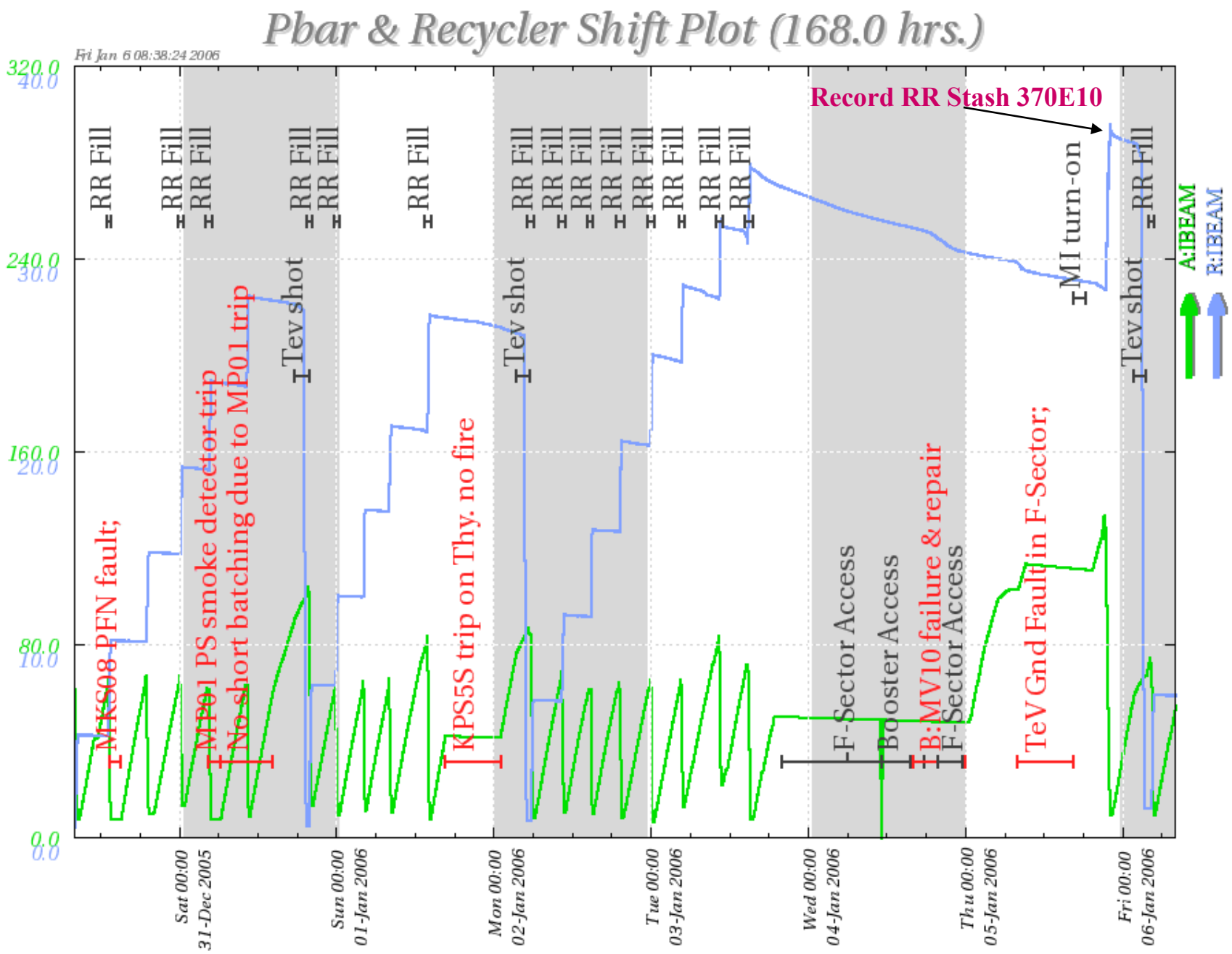
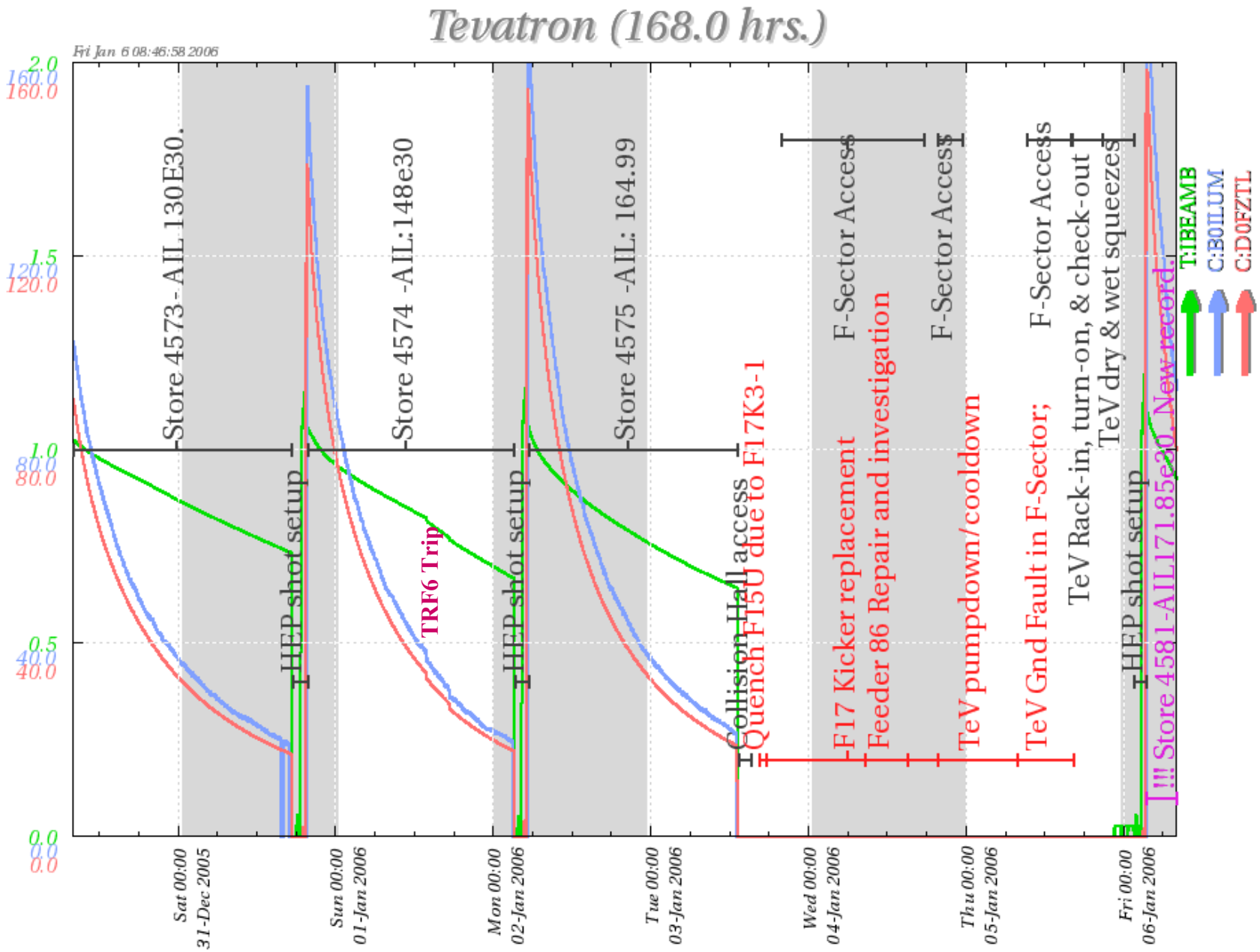
Accelerator Week in Review

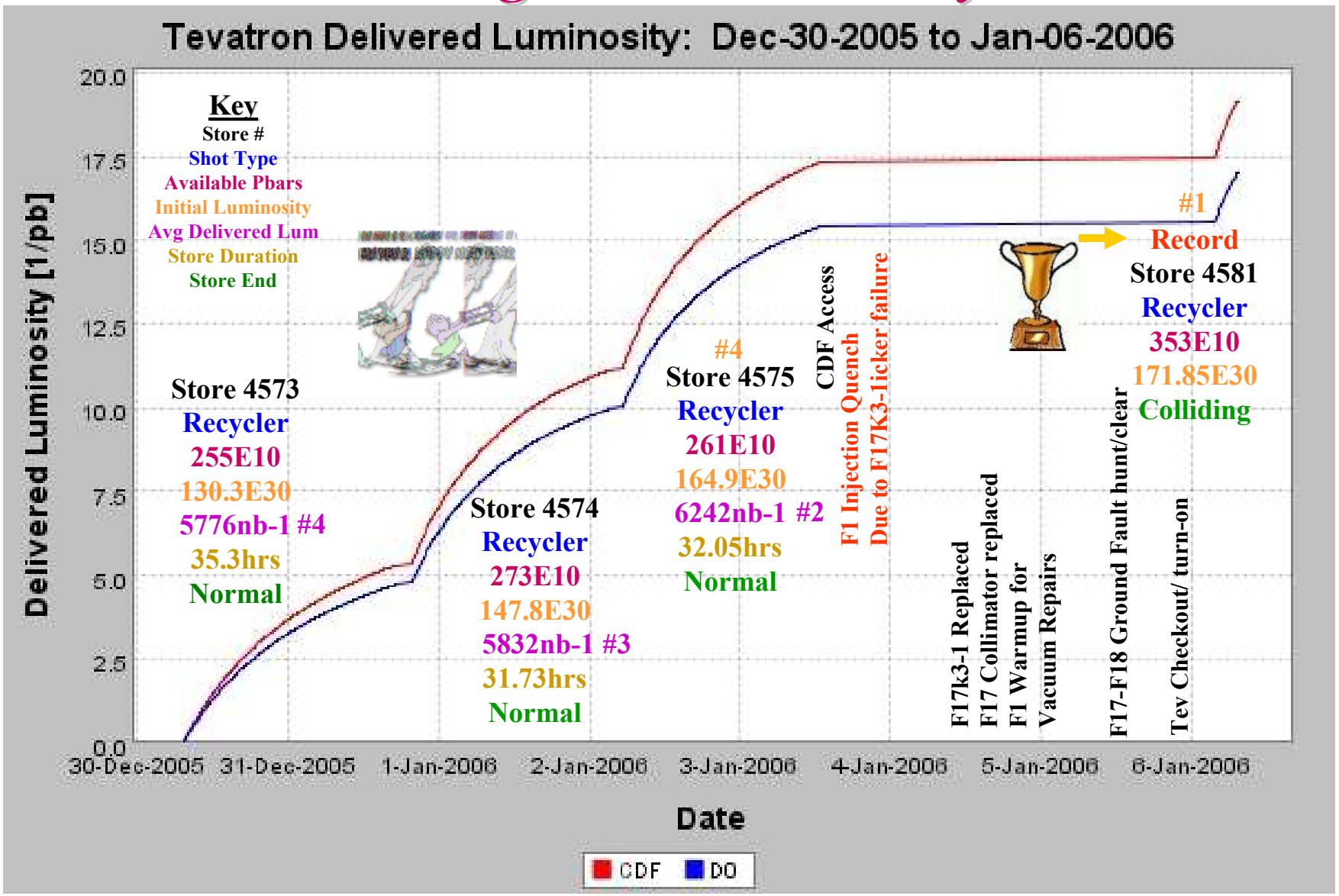
- Part I: Regular 9am Scheduling Meeting
  - Crew Chief Summary
  - 48 hour machine summaries and study requests – Machine Coordinators
  - Operational Plan – Brian Drendel
- Part II: Weekly Machine Reports
  - Weekly Operational Summary – Salah Chaurize
    - User, Pbar and Tevatron weekly operational plots
    - Collider shot summary
    - NuMI beam summary
    - MiniBooNE beam summary
  - Weekly Machine Summaries – Machine Coordinators

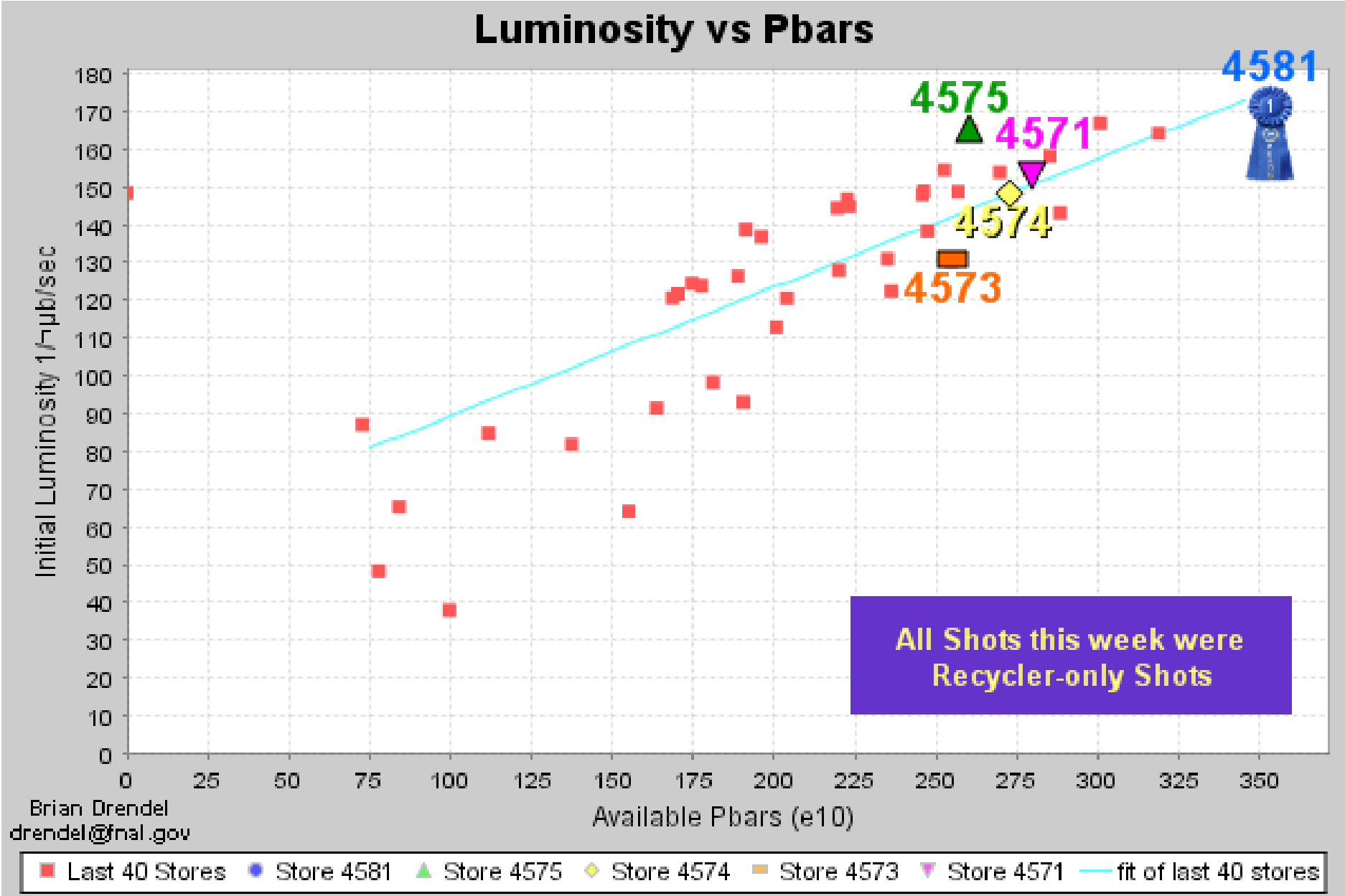

Users Summation (168.0 hrs.)
Fri Jan 6 08:25:59 2006
MTEST 0.00e+00
MIPP 4.54e+08
MB 3.62e+18
NuMI 3.91e+18
RR Fill
Tev shot
MIPP in Access
MI12B Access
Booster Access
B:MV10 failure & repair
MI turn on
MKS08 PFN fault;
MP01 PS smoke detector trip
No short batching due to MP01 trip
KPS5S trip on Thy. no fire
F17 Kicker replacement
TeV Gnd Fault in F-Sector;
Linac downstream fault.
MC7AN1 tripped off.
Linac Buncher problem
Sat 00:00 31-Dec 2005
Sun 00:00 01-Jan 2006
Mon 00:00 02-Jan 2006
Tue 00:00 03-Jan 2006
Wed 00:00 04-Jan 2006
Thu 00:00 05-Jan 2006
Fri 00:00 06-Jan 2006

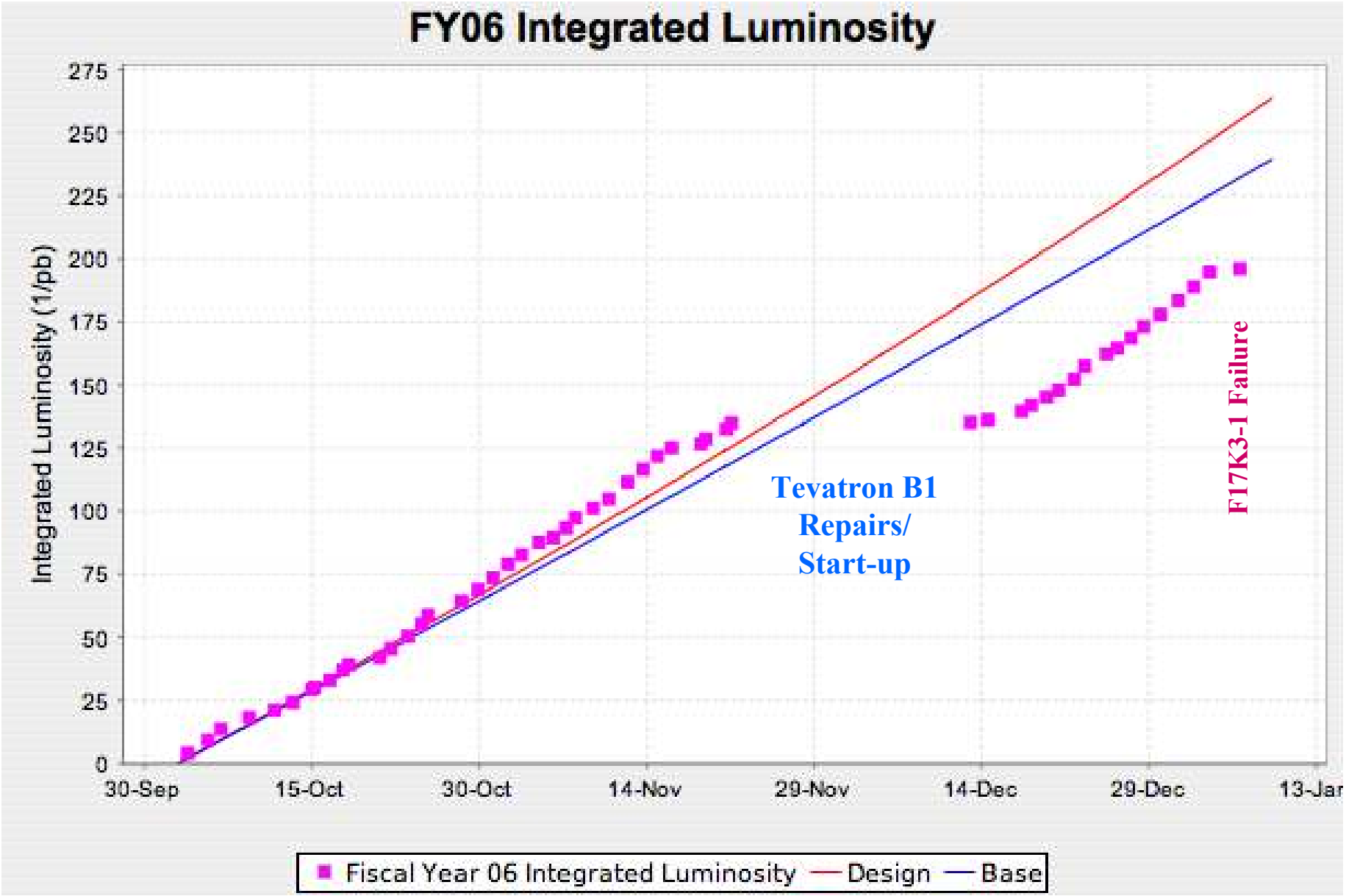

Pbar & Recycler Shift Plot (168.0 hrs.)
Fri Jan 6 08:38:24 2006
320.0
40.0
240.0
30.0
160.0
20.0
80.0
10.0
0.0
0.0
RR Fill
Tev shot
MI turn-on
Record RR Stash 370E10
MKS08 PFN fault;
MP01 PS smoke detector trip
No short batching due to MP01 trip
KPS5S trip on Thy. no fire
F-Sector Access
Booster Access
B:MV10 failure & repair
F-Sector Access
TeV Gnd Fault in F-Sector;
A:IBEAM
R:IBEAM
Sat 00:00 31-Dec 2005
Sun 00:00 01-Jan 2006
Mon 00:00 02-Jan 2006
Tue 00:00 03-Jan 2006
Wed 00:00 04-Jan 2006
Thu 00:00 05-Jan 2006
Fri 00:00 06-Jan 2006

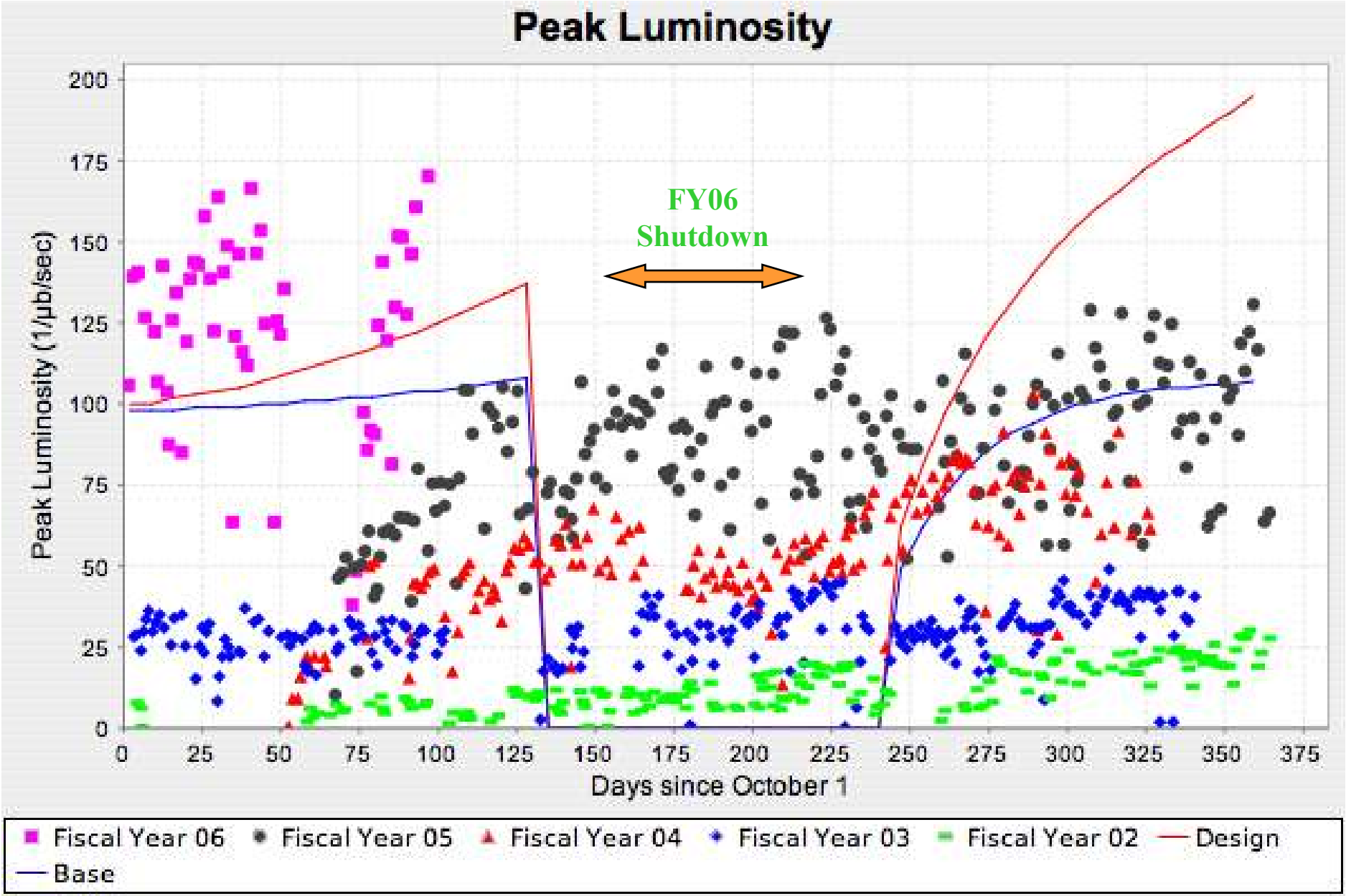

Tevatron (168.0 hrs.)
Fri Jan 6 08:46:58 2006
Store 4573 - AIL 130E30.
Store 4574 -AIL:148e30
Store 4575 -AIL: 164.99
HEP shot setup
TRF6 Trip
HEP shot setup
Collision Hall access
Quench F15U due to F17K3-1
F17 Kicker replacement
Feeder 86 Repair and investigation
F-Sector Access
F-Sector Access
TeV pumpdown/cooldown
TeV Gnd Fault in F-Sector;
F-Sector Access
TeV Rack-in, turn-on, & check-out
TeV dry & wet squeezes
HEP shot setup
!!! Store 4581-AIL171.85e30. New record.
T:IBEAMB
C:B0ILUM
C:D0FZTL
Sat 00:00 31-Dec 2005
Sun 00:00 01-Jan 2006
Mon 00:00 02-Jan 2006
Tue 00:00 03-Jan 2006
Wed 00:00 04-Jan 2006
Thu 00:00 05-Jan 2006
Fri 00:00 06-Jan 2006

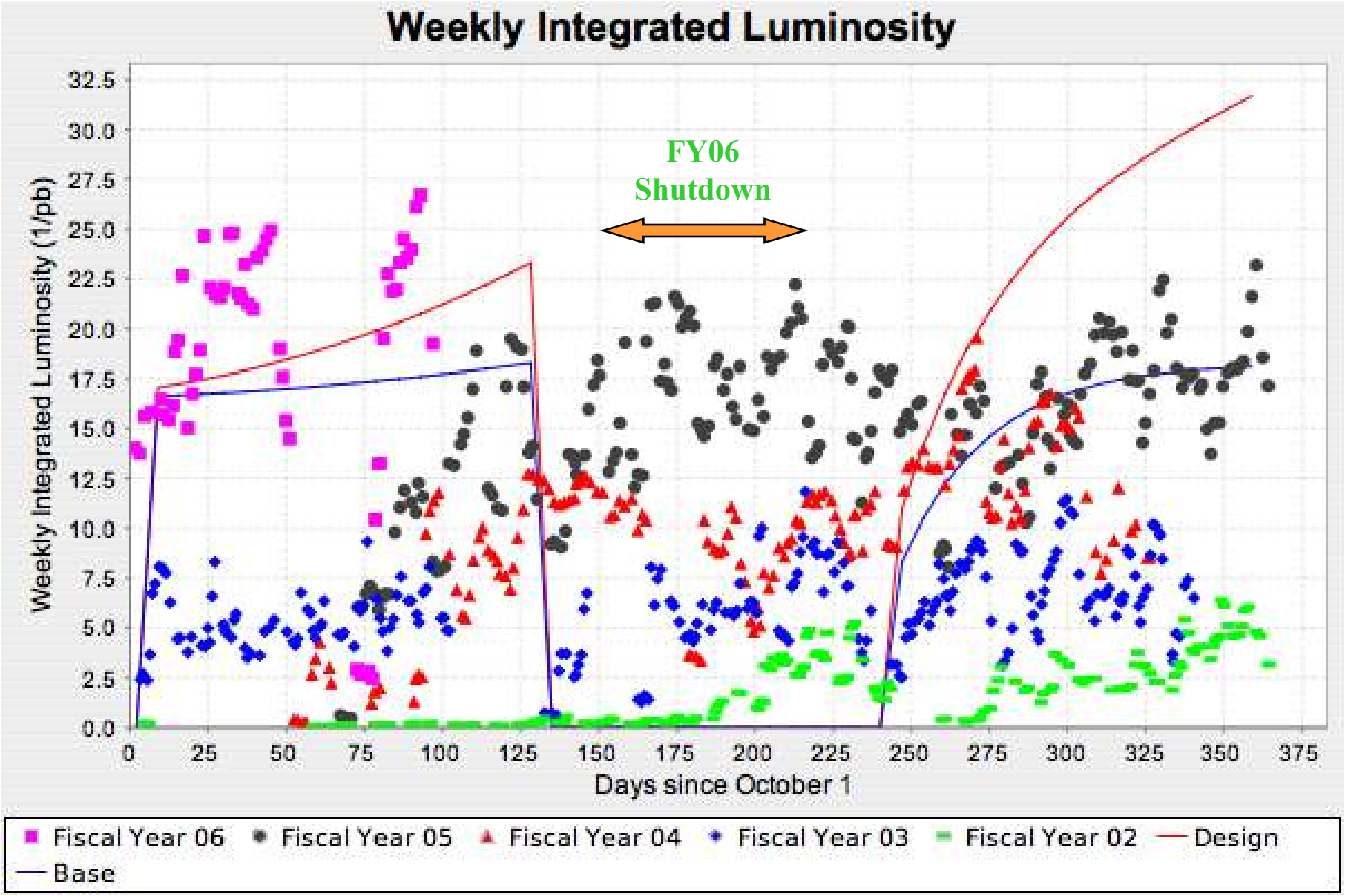
Integrated Luminosity

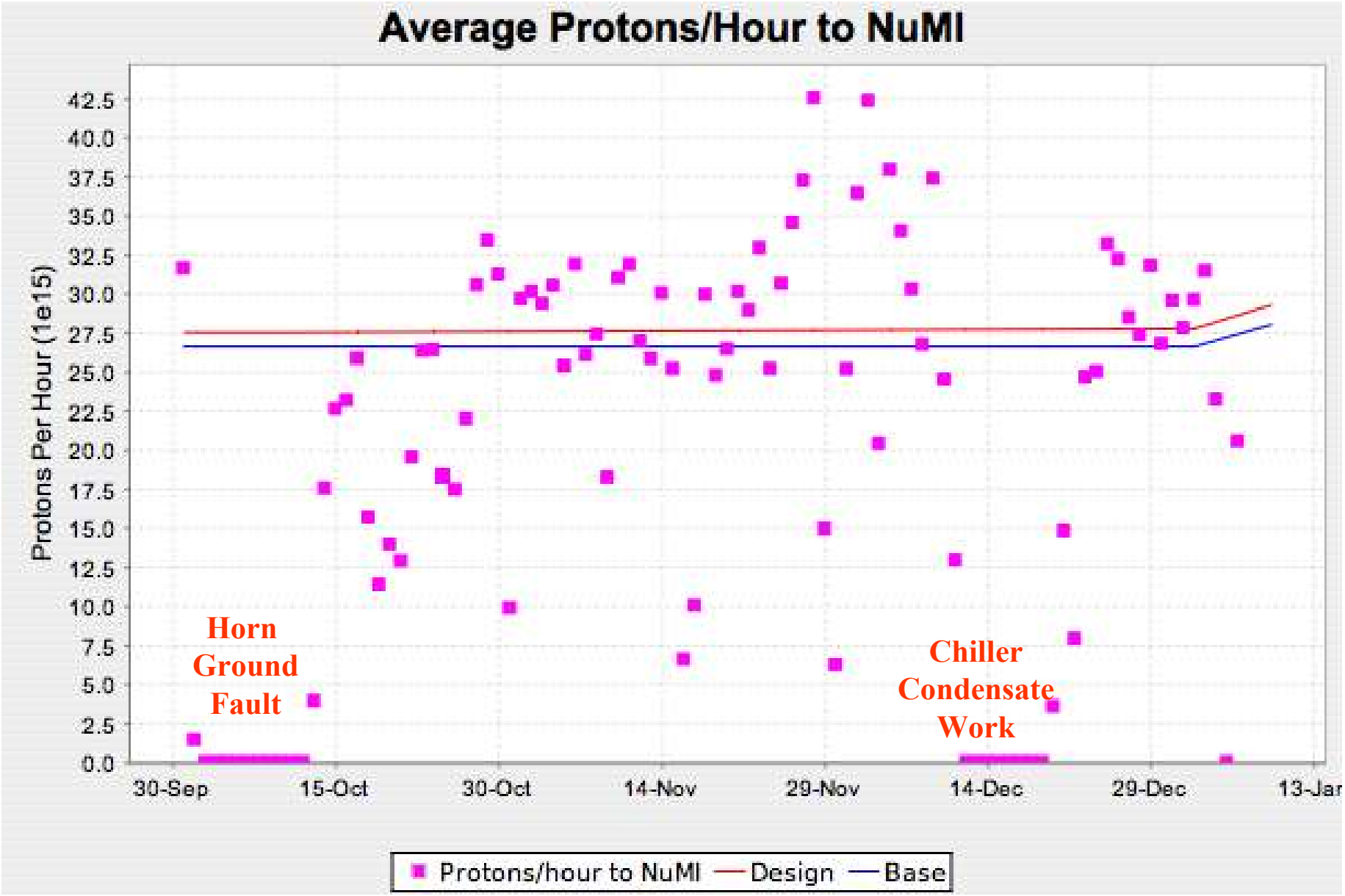


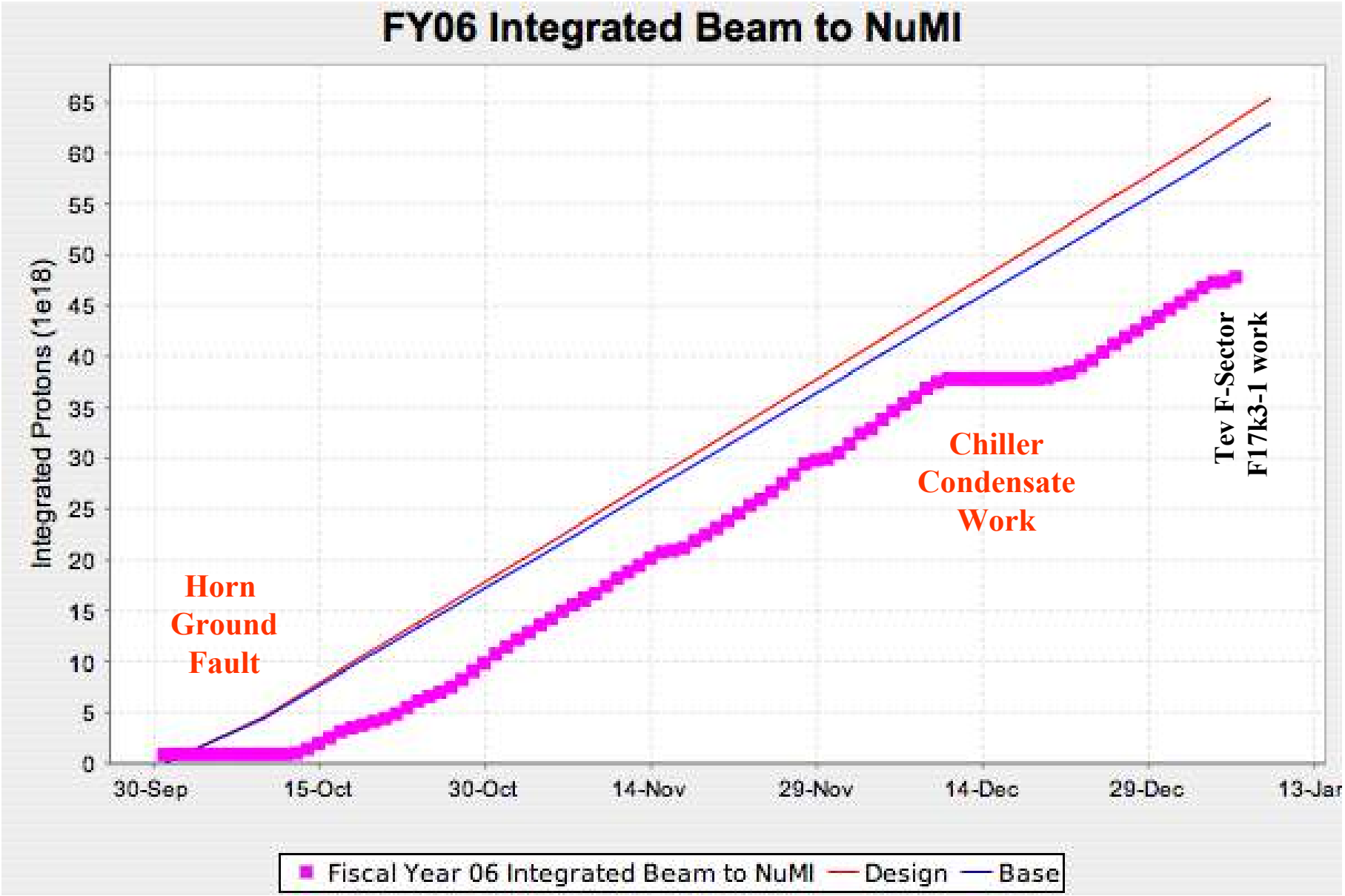

Luminosity vs Pbars
Initial Luminosity 1/¬µb/sec
Available Pbars (e10)
4581
4575
4571
4574
4573
All Shots this week were Recycler-only Shots
Brian Drendel
drendel@fnal.gov
Last 40 Stores
Store 4581
Store 4575
Store 4574
Store 4573
Store 4571
fit of last 40 stores

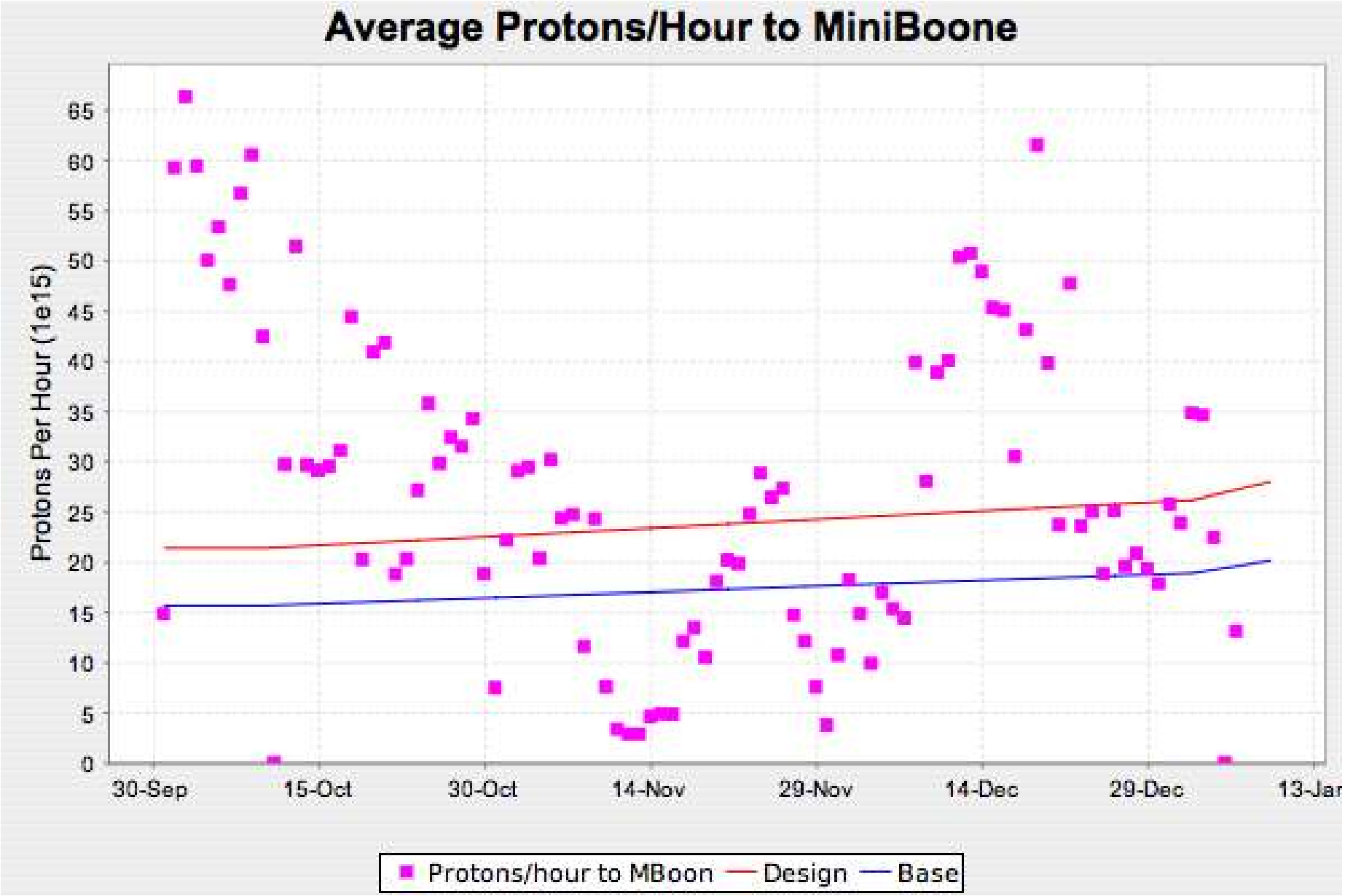

FY06 Integrated Luminosity
Integrated Luminosity (1/pb)
275
250
225
200
175
150
125
100
75
50
25
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
13-Jan
Tevatron B1
Repairs/
Start-up
F17K3-1 Failure
Fiscal Year 06 Integrated Luminosity
Design
Base

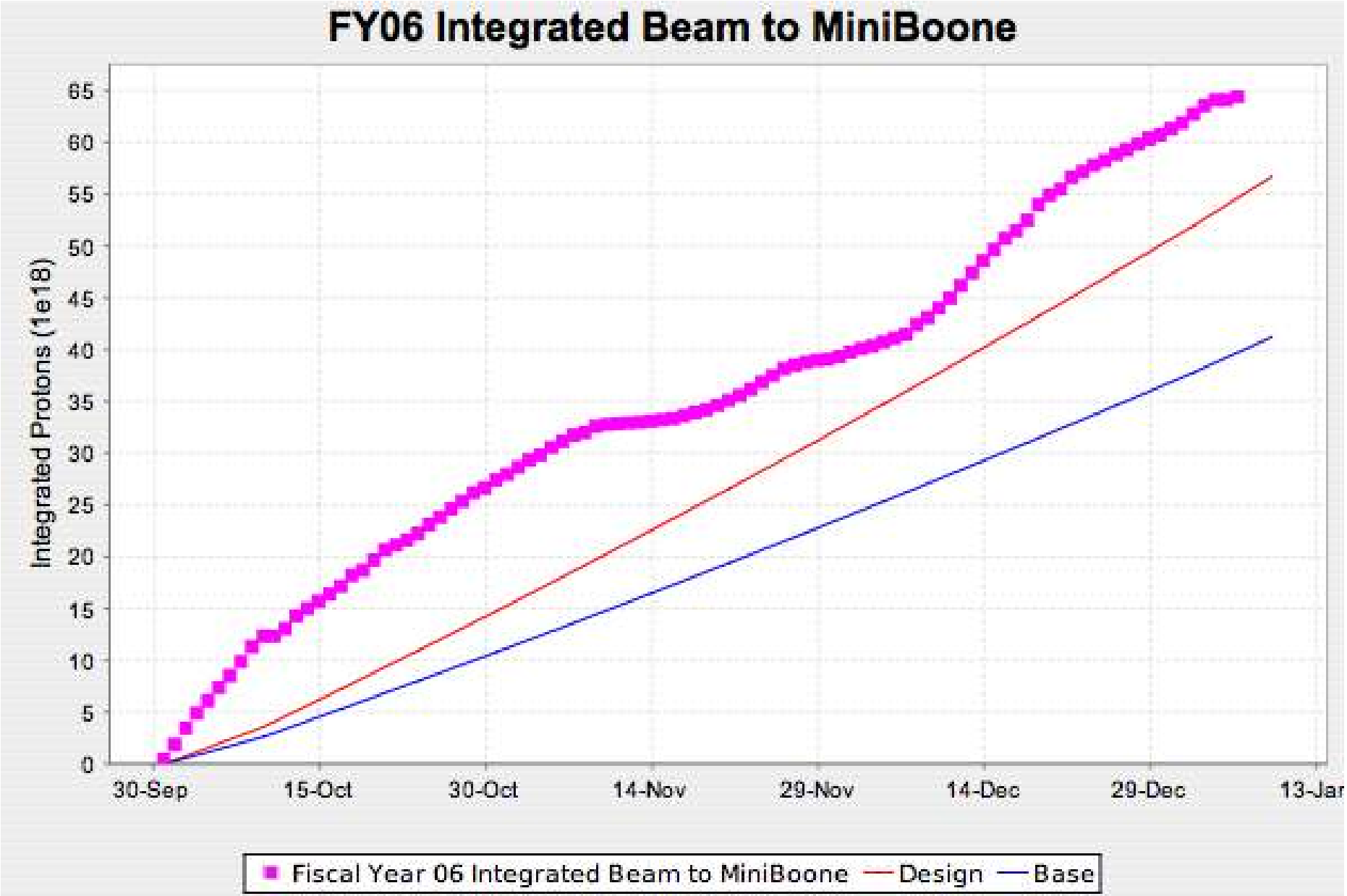

Peak Luminosity
Peak Luminosity (1/μb/sec)
200
175
150
125
100
75
50
25
0
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
Days since October 1
FY06
Shutdown
Fiscal Year 06
Fiscal Year 05
Fiscal Year 04
Fiscal Year 03
Fiscal Year 02
Design
Base


Weekly Integrated Luminosity
Weekly Integrated Luminosity (1/pb)
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
Days since October 1
FY06
Shutdown
Fiscal Year 06
Fiscal Year 05
Fiscal Year 04
Fiscal Year 03
Fiscal Year 02
Design
Base


Average Protons/Hour to NuMI
Protons Per Hour (1e15)
42.5
40.0
37.5
35.0
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
13-Jan
Horn Ground Fault
Chiller Condensate Work
Protons/hour to NuMI
Design
Base


FY06 Integrated Beam to NuMI
Integrated Protons (1e18)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
13-Jan
Horn Ground Fault
Chiller Condensate Work
Tev F-Sector F17k3-1 work
Fiscal Year 06 Integrated Beam to NuMI
Design
Base


Average Protons/Hour to MiniBoone
Protons Per Hour (1e15)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
13-Jan
Protons/hour to MBoon
Design
Base


FY06 Integrated Beam to MiniBoone
Integrated Protons (1e18)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
13-Jan
Fiscal Year 06 Integrated Beam to MiniBoone
Design
Base