2011-09-23 Friday Morning Notes

Friday, September 23, 2011
7:39 AM

Numbers

- Stacking
  - Pbars stacked: 582.14 E10
  - Time stacking: 23.76 Hr
  - Average stacking rate: 24.50 E10/Hr

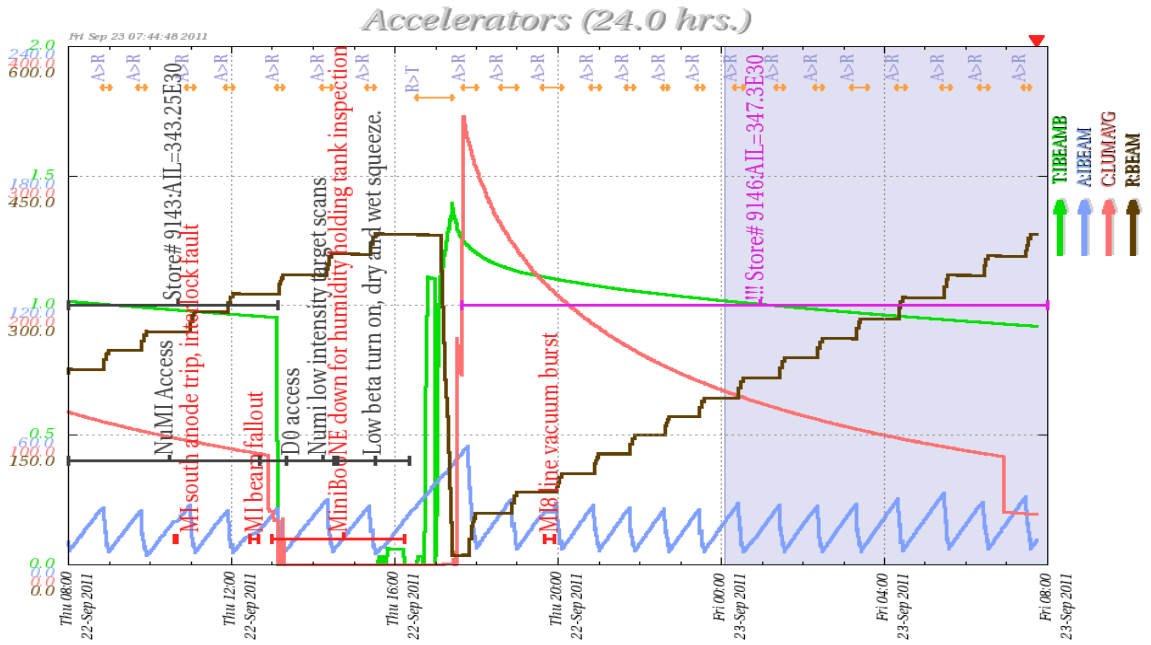
- Uptime
  - Number of pulses while in stacking mode: 32793
  - Number of pulses with beam: 31420
  - Fraction of up pulses was: 95.81%

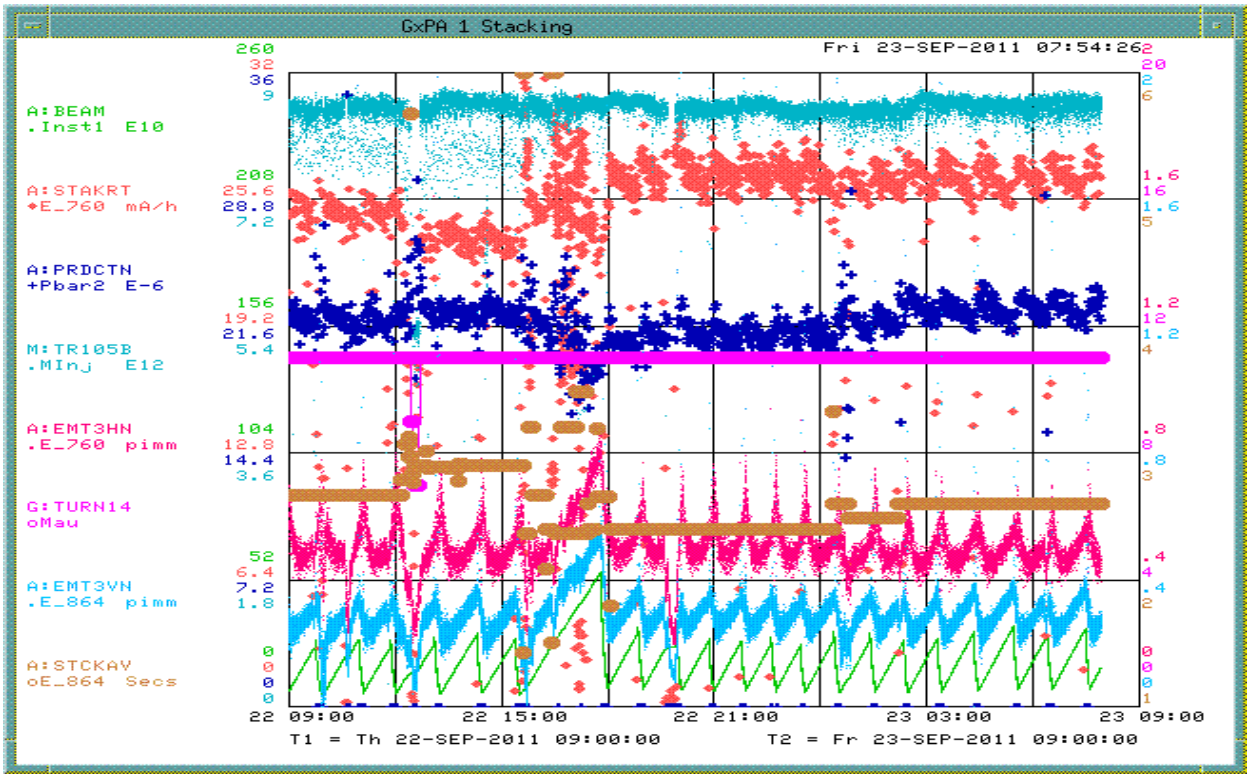
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 22.76 Hr
  - Possible average stacking rate: 25.57 E10/Hr
  - Could have stacked: 607.57 E10/Hr

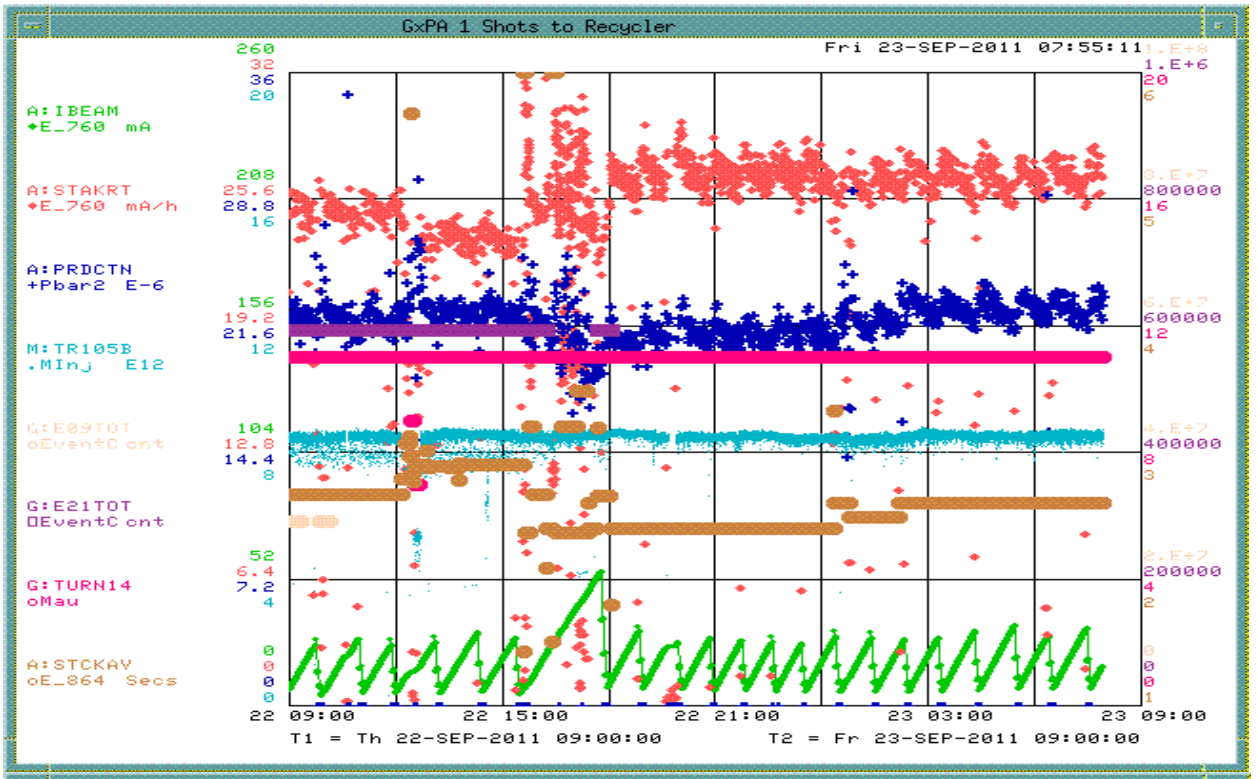
- Recycler Transfers
  - Pbars sent to the Recycler: 589.69 E10
  - Number of transfers : 69
  - Number of transfer sets: 23
  - Average Number of transfer per set: 3.00
  - Time taken to shoot including reverse proton tuneup: 00.24 Hr
  - Transfer efficiency: 95.76%

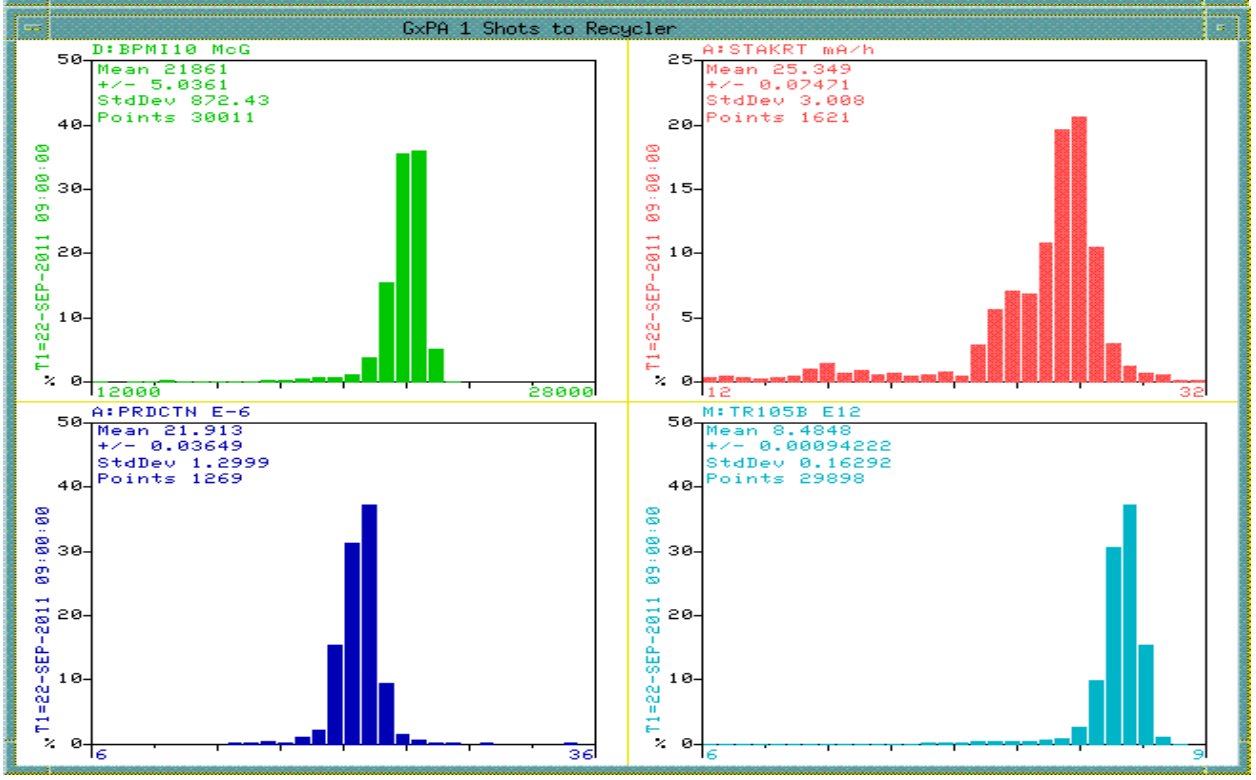
- Other Info
  - Average POT : 8.47 E12
  - Average production: 21.88 pbars/E6 protons

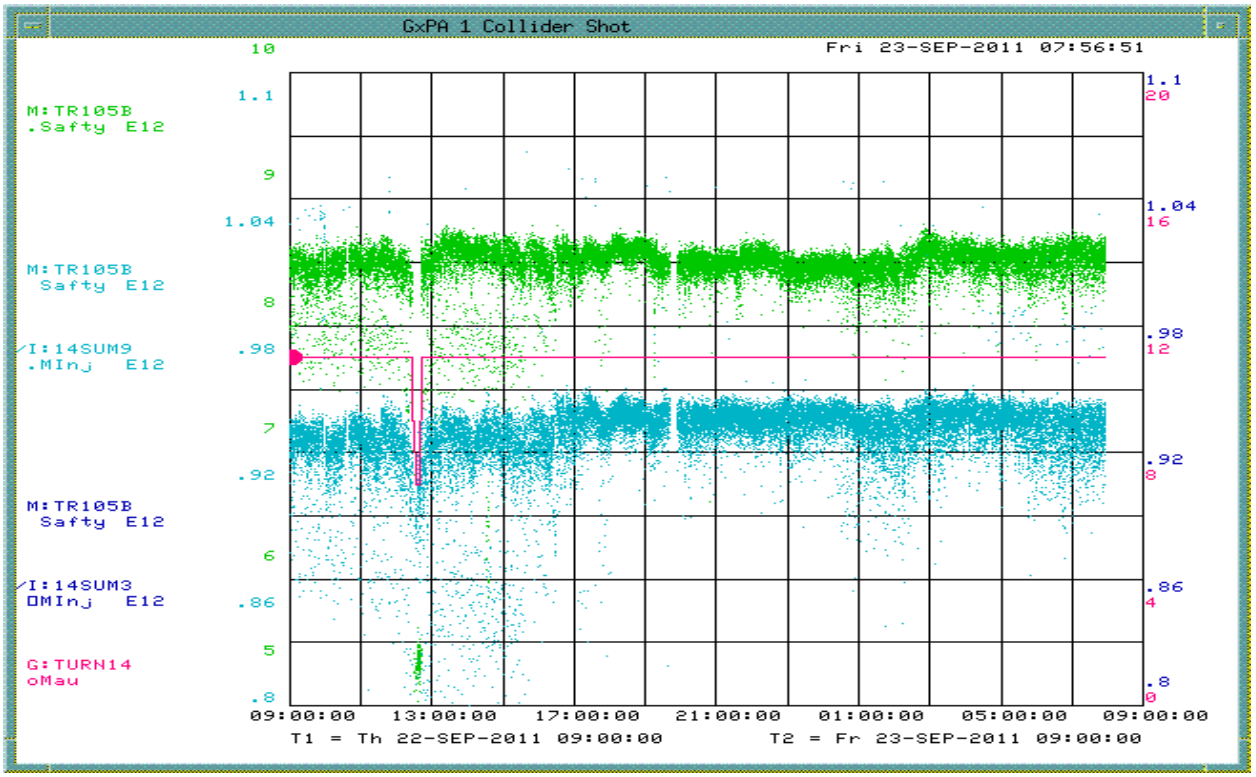
Plots


Accelerators (24.0 hrs.)
Fri Sep 23 07:44:48 2011
Store# 9143:AIL=343.25E30
NuMI Access
MI south anode trip, interlock fault
MI beam failout
D0 access
Numi low intensity target scans
MiniBoone down for humidity holding tank inspection
Low beta turn on, dry and wet squeeze.
MI8 line vacuum burst
Store# 9146:AIL=347.3E30
T:BEAMB
A:BEAM
C:LUMAVG
R:BEAM
Thu 08:00 22-Sep 2011
Thu 12:00 22-Sep 2011
Thu 16:00 22-Sep 2011
Thu 20:00 22-Sep 2011
Fri 00:00 23-Sep 2011
Fri 04:00 23-Sep 2011
Fri 08:00 23-Sep 2011

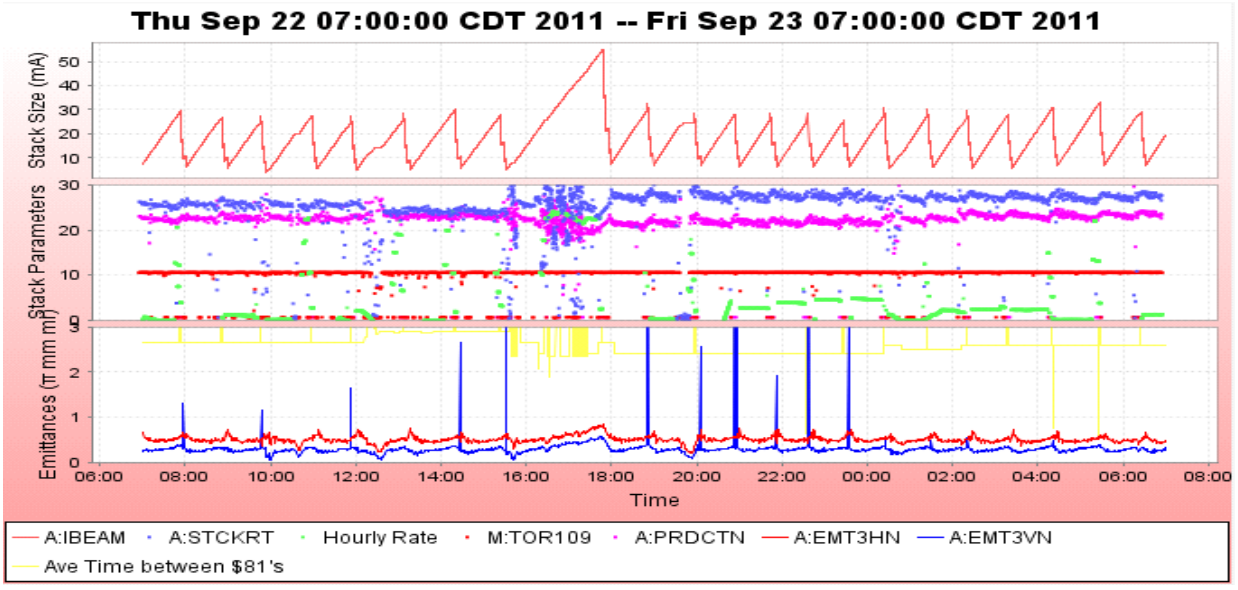

GxPA 1 Stacking
Fri 23-SEP-2011 07:54:26
A:BEAM
.Inst1 E10
A:STAKRT
+E_760 mA/h
A:PRDCTN
+Pbar2 E-6
M:TR105B
.MInj E12
A:EMT3HN
.E_760 pimm
G:TURN14
oMau
A:EMT3VN
.E_864 pimm
A:STCKAV
oE_864 Secs
22 09:00
22 15:00
22 21:00
23 03:00
23 09:00
T1 = Th 22-SEP-2011 09:00:00
T2 = Fr 23-SEP-2011 09:00:00


GxPA 1 Shots to Recycler
Fri 23-SEP-2011 07:55:11
A:IBEAM
+E_760 mA
A:STAKRT
+E_760 mA/h
A:PRDCTN
+Pbar2 E-6
M:TR105B
.MInj E12
G:E09TOT
oEventCcnt
G:E21TOT
□EventCcnt
G:TURN14
oMau
A:STCKAV
oE_864 Secs
22 09:00
22 15:00
22 21:00
23 03:00
23 09:00
T1 = Th 22-SEP-2011 09:00:00
T2 = Fr 23-SEP-2011 09:00:00

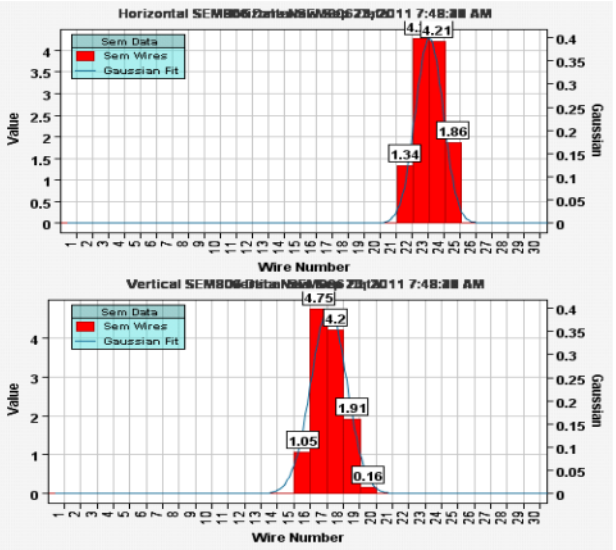

GxPA 1 Shots to Recycler
D:BPMI10 McG
Mean 21861
+/- 5.0361
StdDev 872.43
Points 30011
A:STAKRT mA/h
Mean 25.349
+/- 0.07471
StdDev 3.008
Points 1621
A:PRDCTN E-6
Mean 21.913
+/- 0.03649
StdDev 1.2999
Points 1269
M:TR105B E12
Mean 8.4848
+/- 0.00094222
StdDev 0.16292
Points 29898
T1=22-SEP-2011 09:00:00

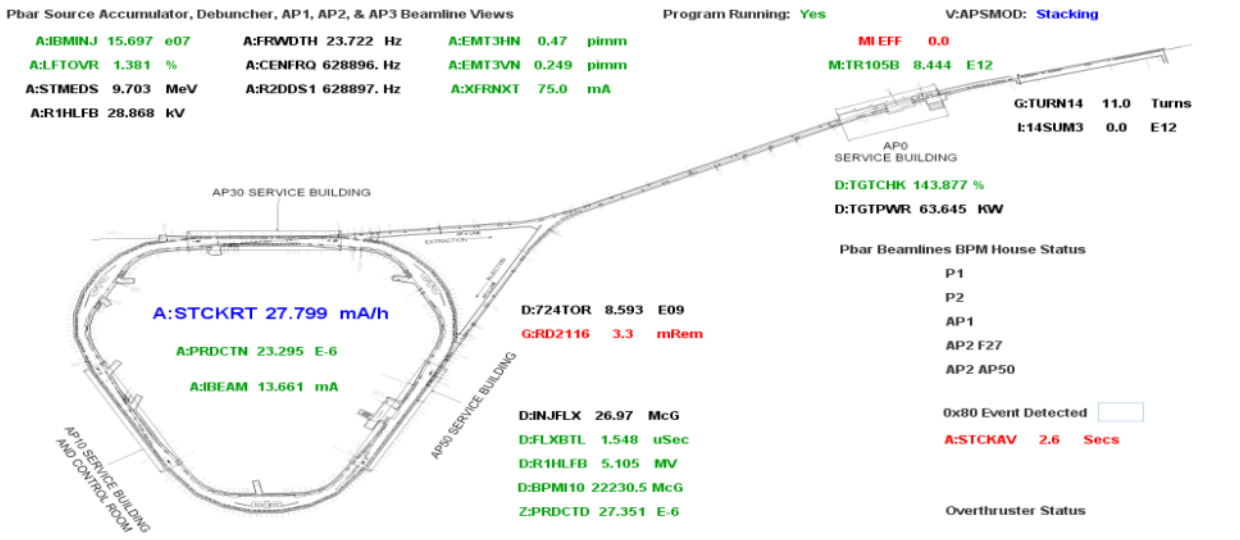


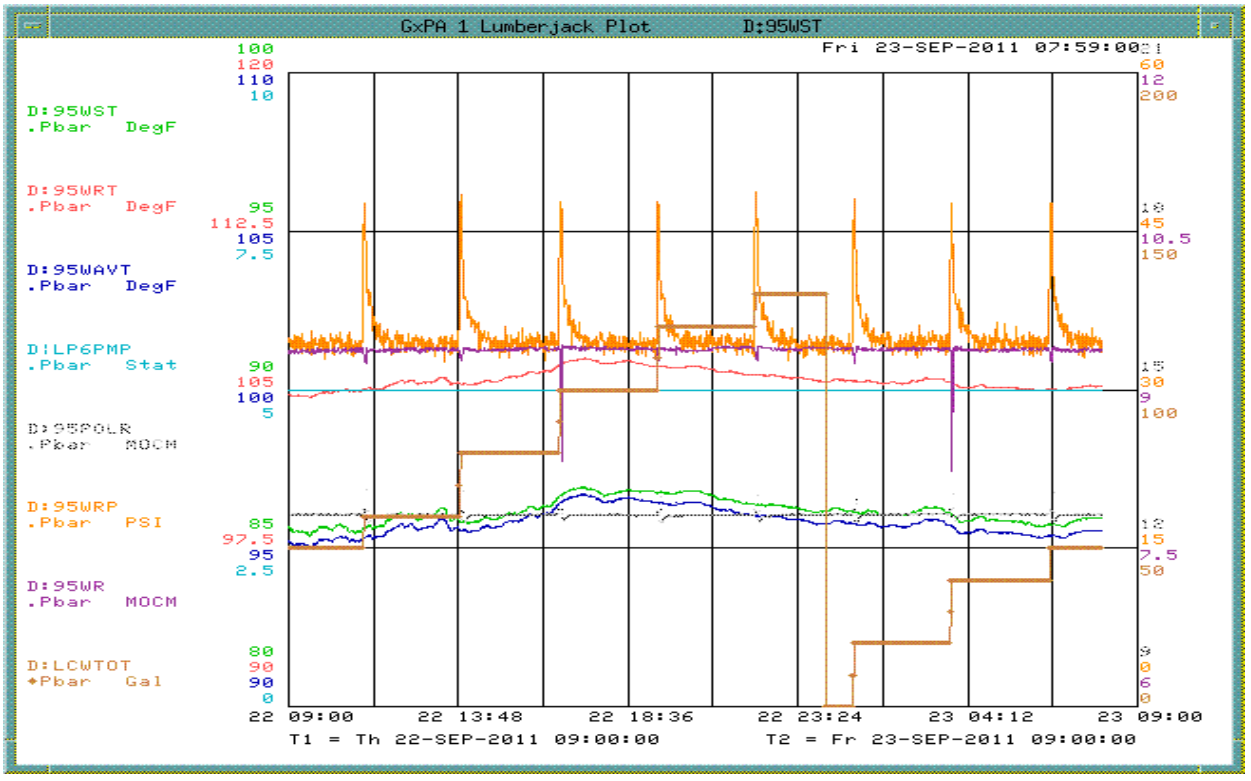
NuMI target changeout...so running $29s.

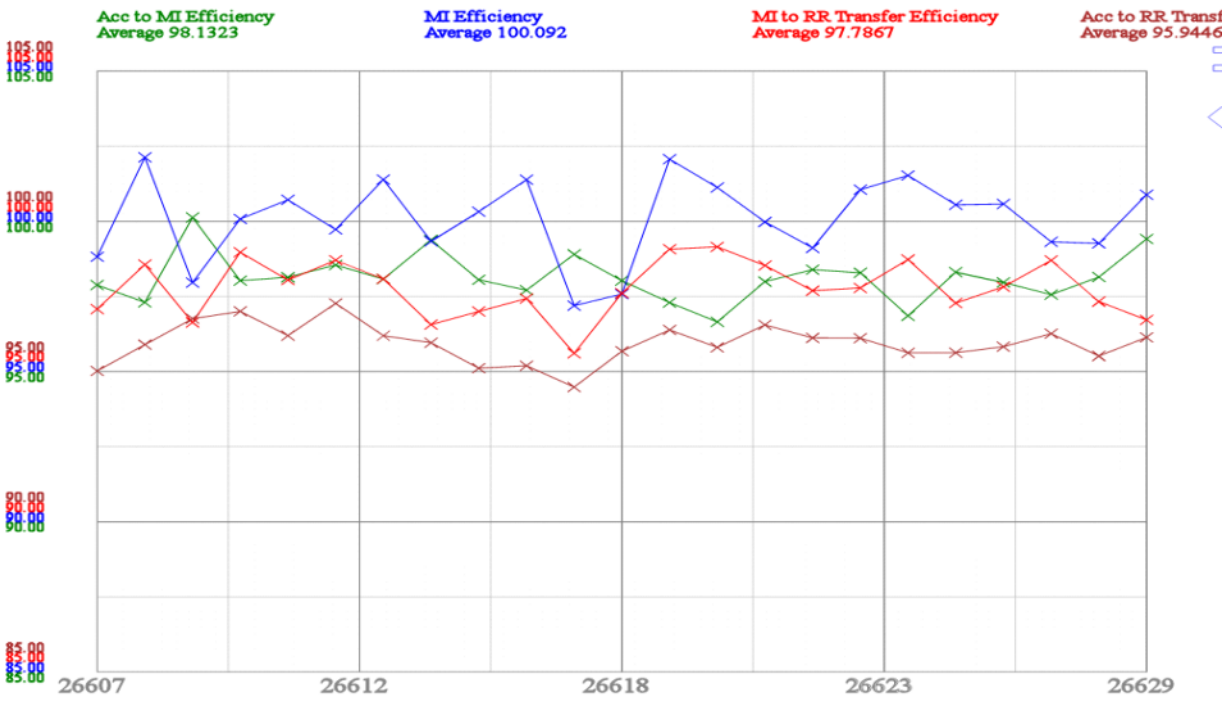


Horizontal Area New	11.7	Intensity
Horizontal Area Calc	207.43	Intensity
Horizontal Sigma New	2.67	mm
Horizontal Sigma Calc	2.52	mm
Horizontal Mean	25.69	mm
Vertical Area New	12.07	Intensity
Vertical Area Calc	208.77	Intensity
Vertical Sigma New	2.69	mm
Vertical Sigma Calc	2.53	mm
Vertical Mean	7.85	mm








Acc to MI Efficiency
Average 98.1323
MI Efficiency
Average 100.092
MI to RR Transfer Efficiency
Average 97.7867
Acc to RR Transf
Average 95.9446
105.00
100.00
95.00
90.00
85.00
26607
26612
26618
26623
26629