2011-02-18 Friday Morning Notes

Friday, February 18, 2011
7:26 AM

Stacking and Transfers

- Stacked 16.2mA/hr with a production of 18.2 pbars/Mp and 7.61 Tp on target
- Unstacked 478mA in 23 transfers over six sets with an average overall efficicnecy of 88.9%

Interesting Happenings

- Stacktail Equalizer change
- Pelletron still down
- Mini-Network Storm

Numbers

- Stacking
  - Pbars stacked: 328.15 E10
  - Time stacking: 20.23 Hr
  - Average stacking rate: 16.22 E10/Hr

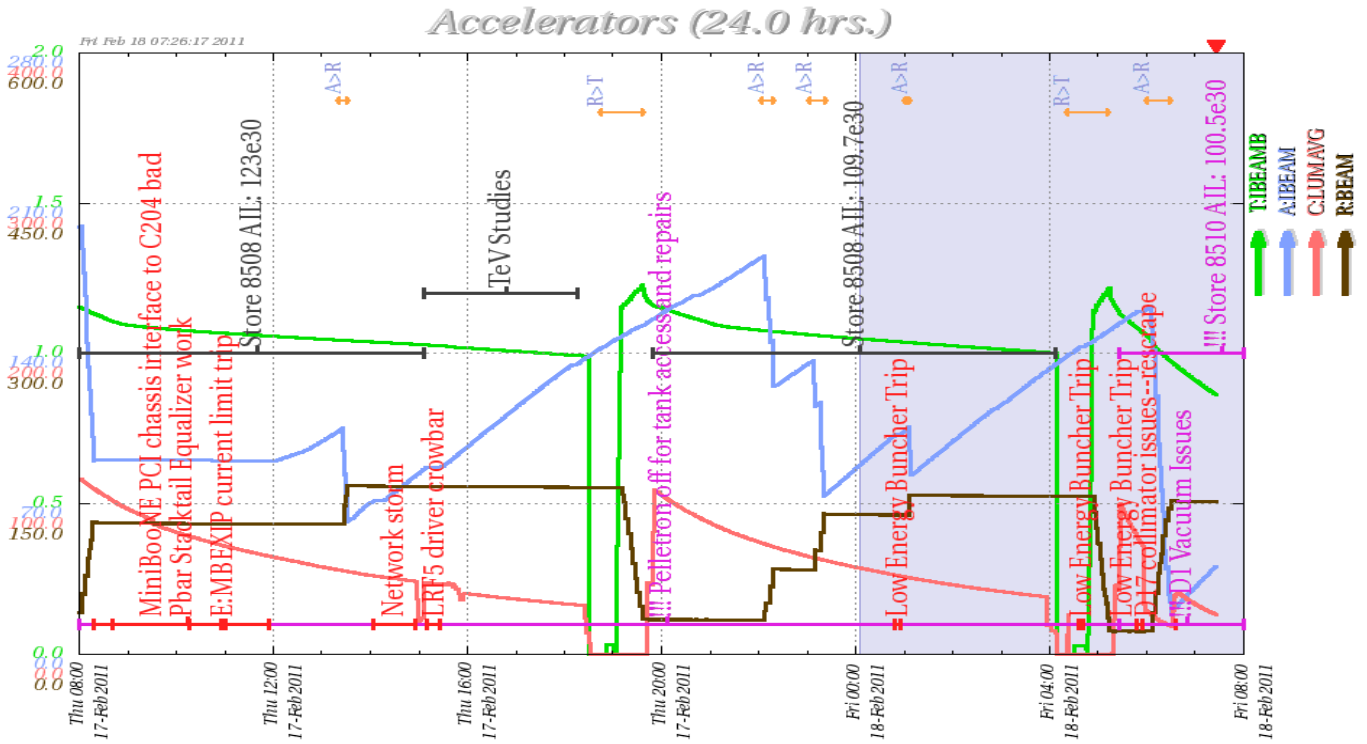
- Uptime
  - Number of pulses while in stacking mode: 25989
  - Number of pulses with beam: 23675
  - Fraction of up pulses was: 91.10%

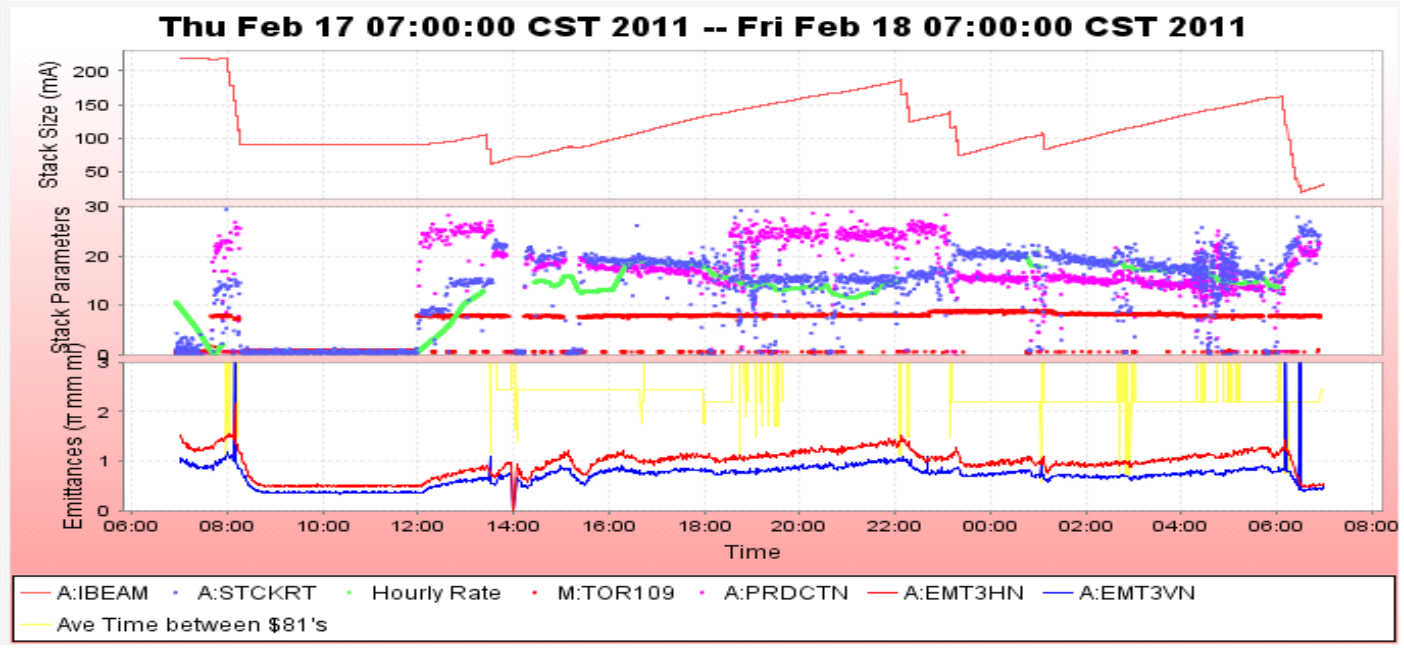
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 18.43 Hr
  - Possible average stacking rate: 17.80 E10/Hr
  - Could have stacked: 360.22 E10/Hr

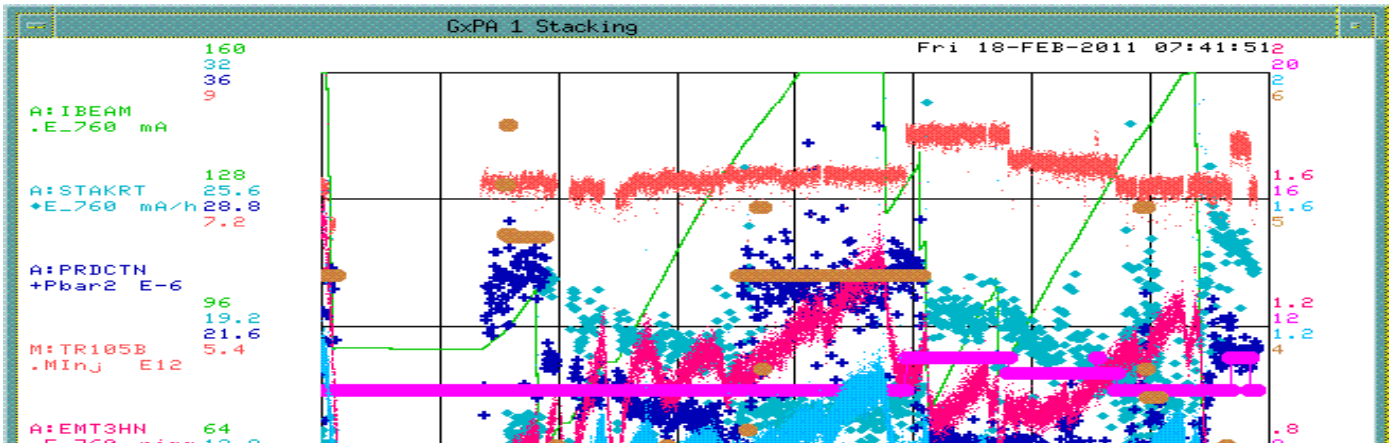
- Recycler Transfers
  - Pbars sent to the Recycler: 477.92 E10
  - Number of transfers : 23
  - Number of transfer sets: 6
  - Average Number of transfer per set: 3.83
  - Time taken to shoot including reverse proton tuneup: 00.08 Hr
  - Transfer efficiency: 86.35%

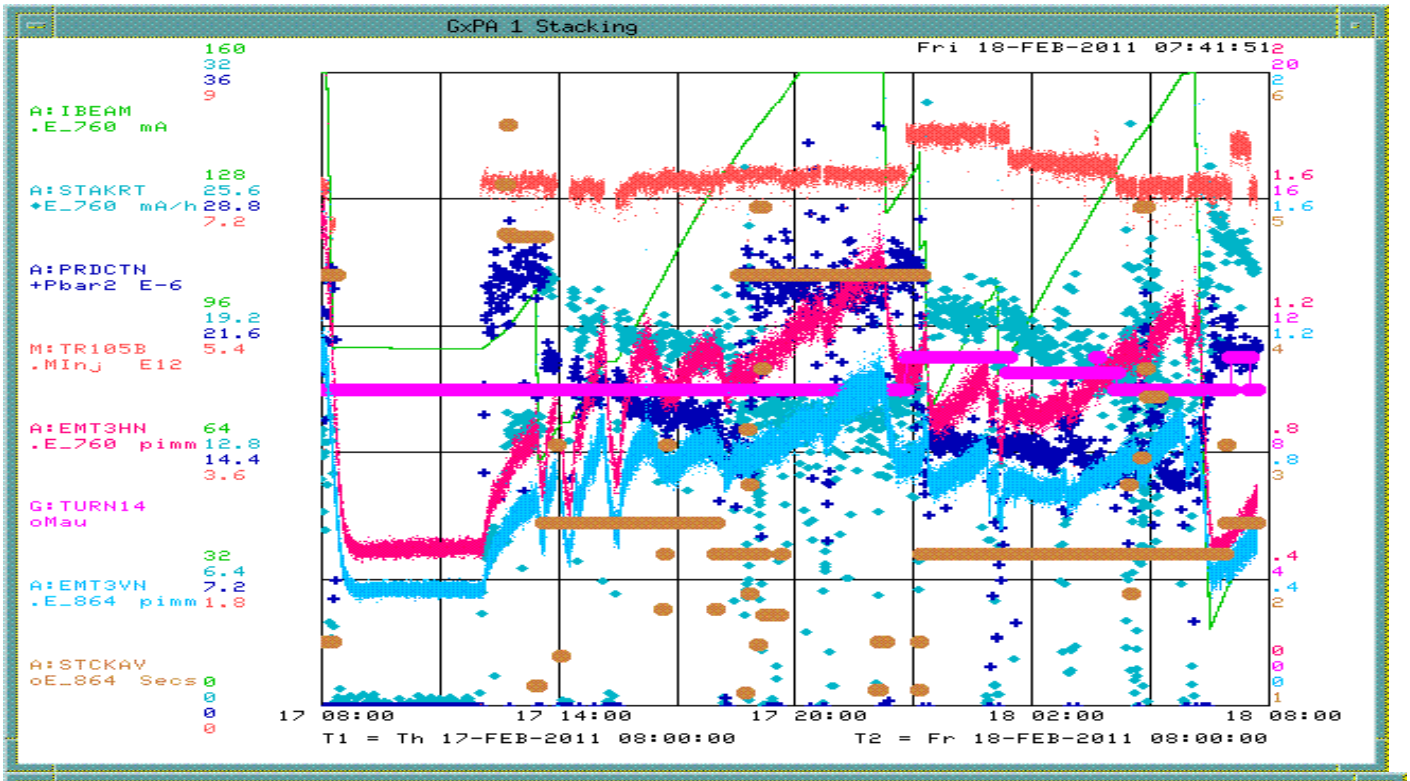
- Other Info
  - Average POT : 7.60 E12
  - Average production: 18.24 pbars/E6 protons

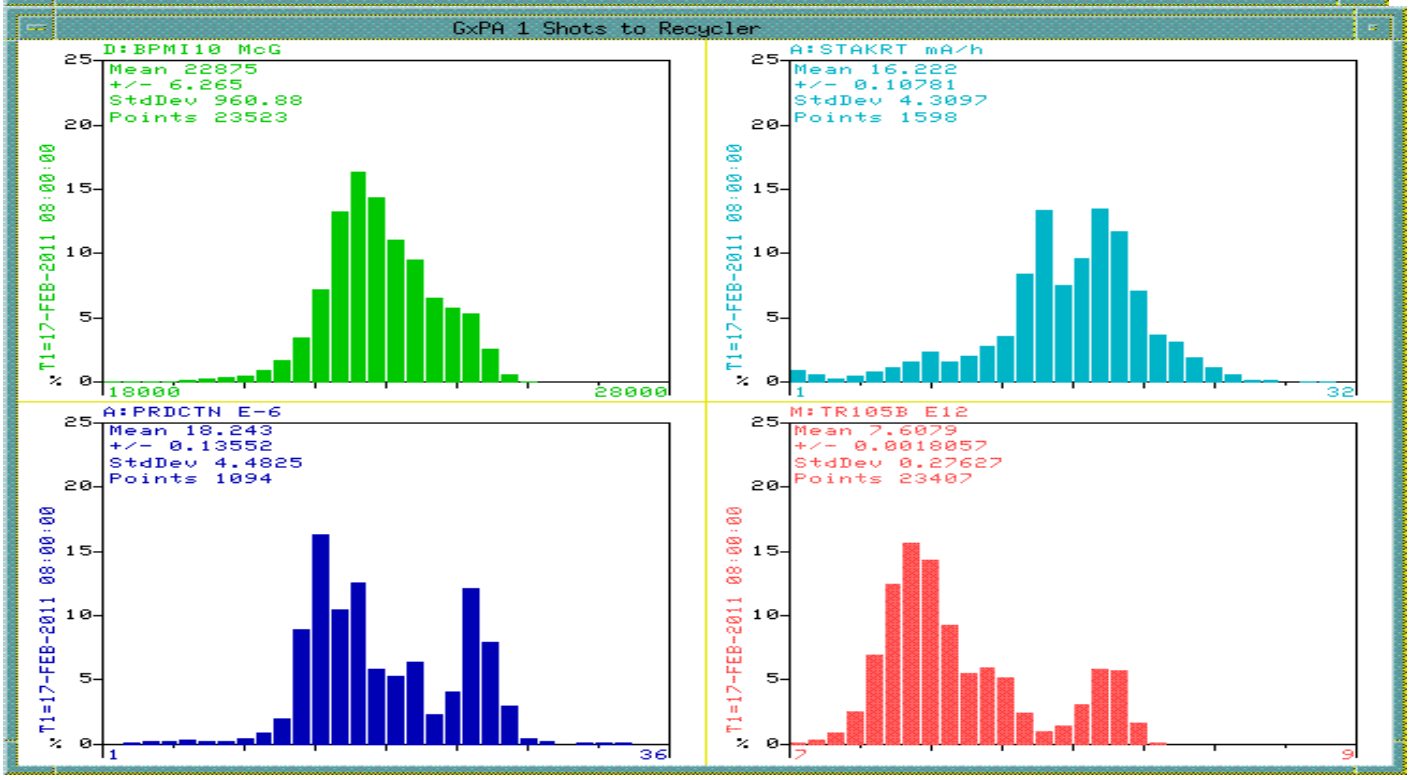
Plot

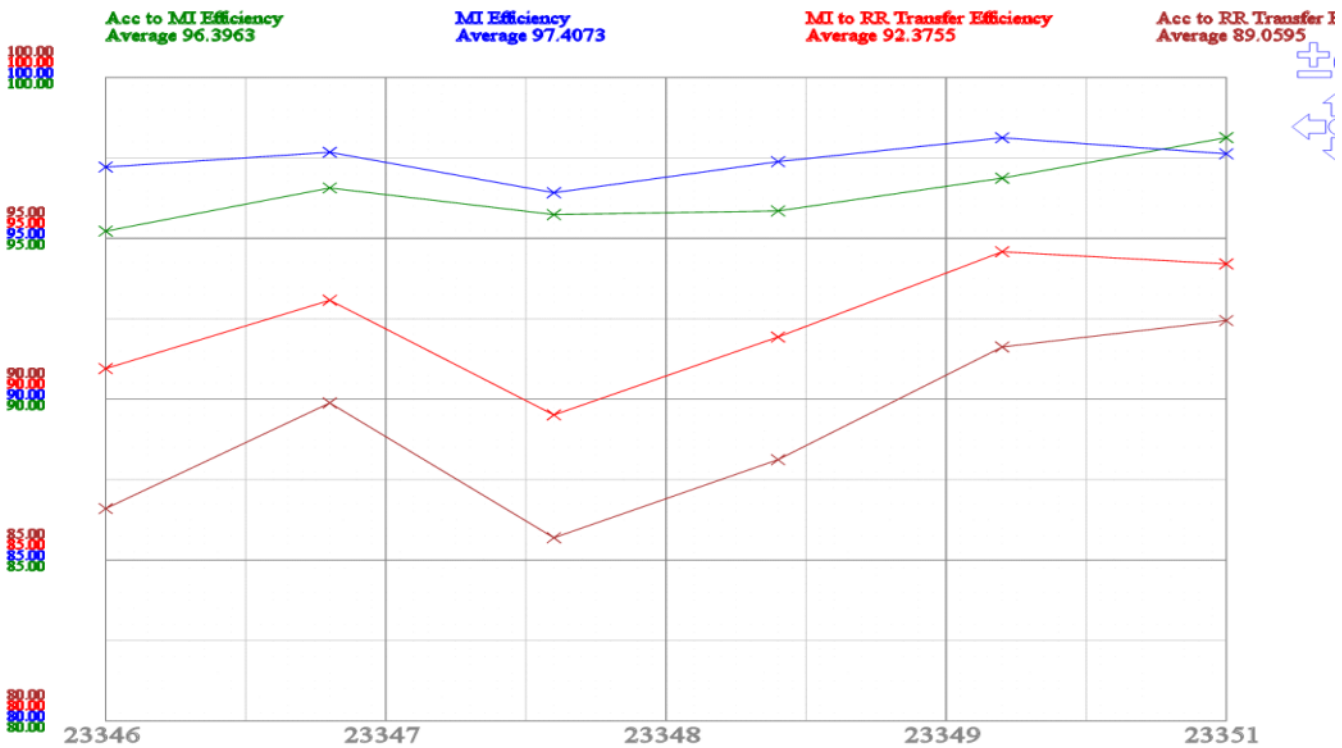

Accelerators (24.0 hrs.)
Fri Feb 18 07:26:17 2011
MiniBooNE PCI chassis interface to C204 bad
Pbar Stacktail Equalizer work
E:MBEXIP current limit trip
Store 8508 AIL: 123e30
Network storm
LRT5 driver crowbar
TeV Studies
!!! Pellet on off for tank access and repairs
Store 8508 AIL: 109.7e30
Low Energy Buncher Trip
Low Energy Buncher Trip
Low Energy Buncher Trip
D17 collimator issues--rescape
!!! D1 Vacuum Issues
!!! Store 8510 AIL: 100.5e30
A>R
R>T
T:IBEAMB
A:IBEAM
C:LUMAVG
R:BEAM
Thu 08:00 17-Feb 2011
Thu 12:00 17-Feb 2011
Thu 16:00 17-Feb 2011
Thu 20:00 17-Feb 2011
Fri 00:00 18-Feb 2011
Fri 04:00 18-Feb 2011
Fri 08:00 18-Feb 2011


Thu Feb 17 07:00:00 CST 2011 -- Fri Feb 18 07:00:00 CST 2011
Stack Size (mA)
Stack Parameters
Emittances (π mm mr)
Time
A:IBEAM
A:STCKRT
Hourly Rate
M:TOR109
A:PRDCTN
A:EMT3HN
A:EMT3VN
Ave Time between $81's


GxPA 1 Stacking
Fri 18-FEB-2011 07:41:51
A:IBEAM
.E_760 mA
A:STAKRT
+E_760 mA/h
A:PRDCTN
+Pbar2 E-6
M:TR105B
.MInj E12
A:EMT3HN


GxPA 1 Stacking
Fri 18-FEB-2011 07:41:51
A:IBEAM
.E_760 mA
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
17 08:00
17 14:00
17 20:00
18 02:00
18 08:00
T1 = Th 17-FEB-2011 08:00:00
T2 = Fr 18-FEB-2011 08:00:00


GxPA 1 Shots to Recycler
D:BPMI10 McG
Mean 22875
+/- 6.265
StdDev 960.88
Points 23523
A:STAKRT mA/h
Mean 16.222
+/- 0.10781
StdDev 4.3097
Points 1598
A:PRDCTN E-6
Mean 18.243
+/- 0.13552
StdDev 4.4825
Points 1094
M:TR105B E12
Mean 7.6079
+/- 0.0018057
StdDev 0.27627
Points 23407
T1=17-FEB-2011 08:00:00
% 0



Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time		Column 21 Number_20_A:IBEAMB sampled on $91 (A:BEAM7), E10	Column 22 Number_21_A:IBEAMB sampled on $94 (A:BEAM9), E10	Unstacked (mA)	Column 23 Number_22_R:BEAMS (R:BEAME0[0]) pre xfer E10	Column 24 Number_23_R:BEAM (R:BEAME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance
	Totals =>				478.46			425.47	88.93%	96.44%	93.88%	90.53%	23	6	10.557	7.6852	1.2855
	Daily Average =>				478.46			425.47					23	6			
23351	Friday, February 18, 2011	6:07	162.01	19.18	149.47	22.97	153.97	137.53	92.01%	97.97%	95.62%	93.69%	8	1	9.084	6.276	1.636
23350	Friday, February 18, 2011	1:06	105.66	83.25	22.41	139.00	159.53	20.53	91.62%	96.87%	95.06%	92.08%	1	1	9.151	6.797	1.275
23349	Thursday, February 17, 2011	23:09	137.09	73.43	66.51	84.50	141.09	58.60	88.11%	95.84%	93.33%	89.45%	3	1	10.6	7.745	1.262
23348	Thursday, February 17, 2011	22:07	185.39	124.34	63.26	34.45	86.30	54.21	85.69%	95.72%	92.30%	88.34%	3	1	13.105	9.608	1.095
23347	Thursday, February 17, 2011	13:26	105.15	61.37	44.50	129.71	168.98	40.00	89.90%	96.57%	94.34%	91.10%	2	1	8.251	5.931	1.225
23346	Thursday, February 17, 2011	7:59	219.65	89.84	132.32	24.71	133.05	114.60	86.61%	95.22%	92.58%	88.16%	6	1	13.151	9.754	1.22