

2011-02-23 Wednesday Morning Notes

Wednesday, February 23, 2011
7:26 AM

Stacking and Transfers

- Stacked 25.7mA/hr with a production of 19.63 with 8.13E12 on target.
- Unstacked 475E10 in 56 transfers over 18 sets with an average efficiency of 95.3%.
 - Taking out the transfers greater than 31ma, the average efficiency was 95.8%

Interesting Happenings

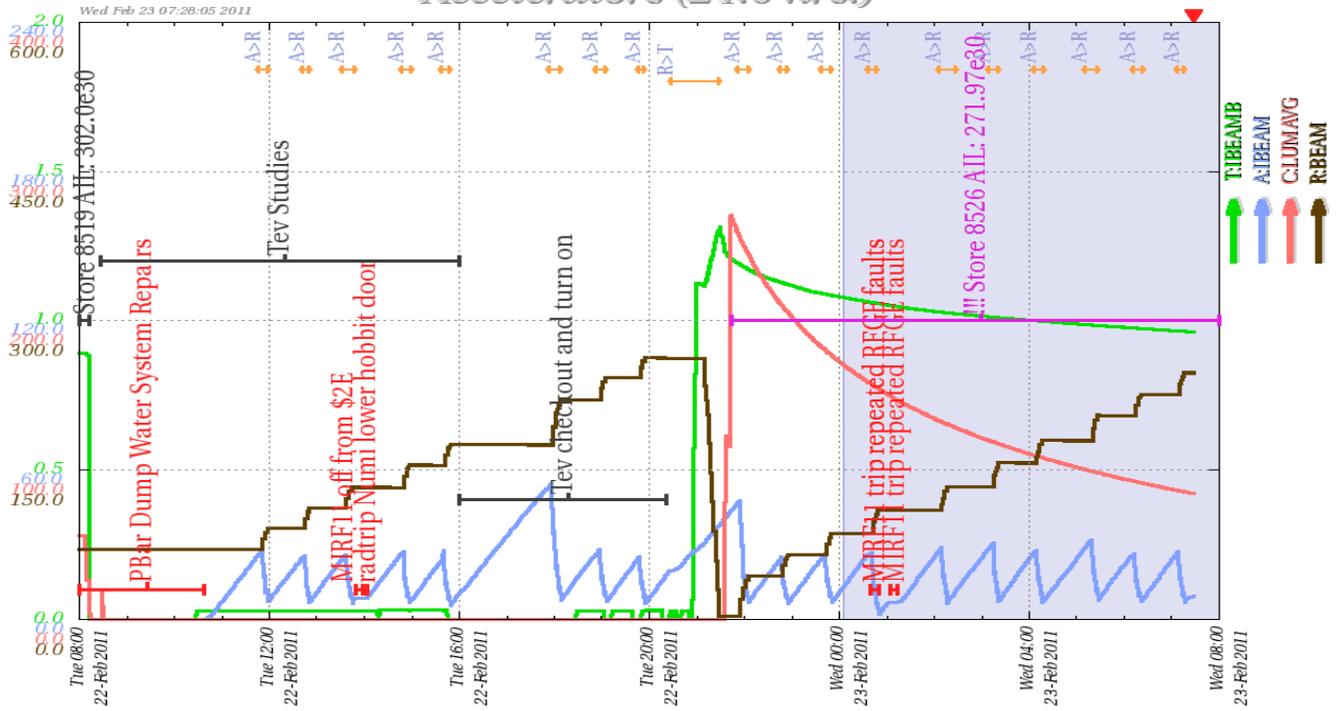
- VSA oscillator added to the D/A VSA power cycle parameter D:VSB10R

Numbers

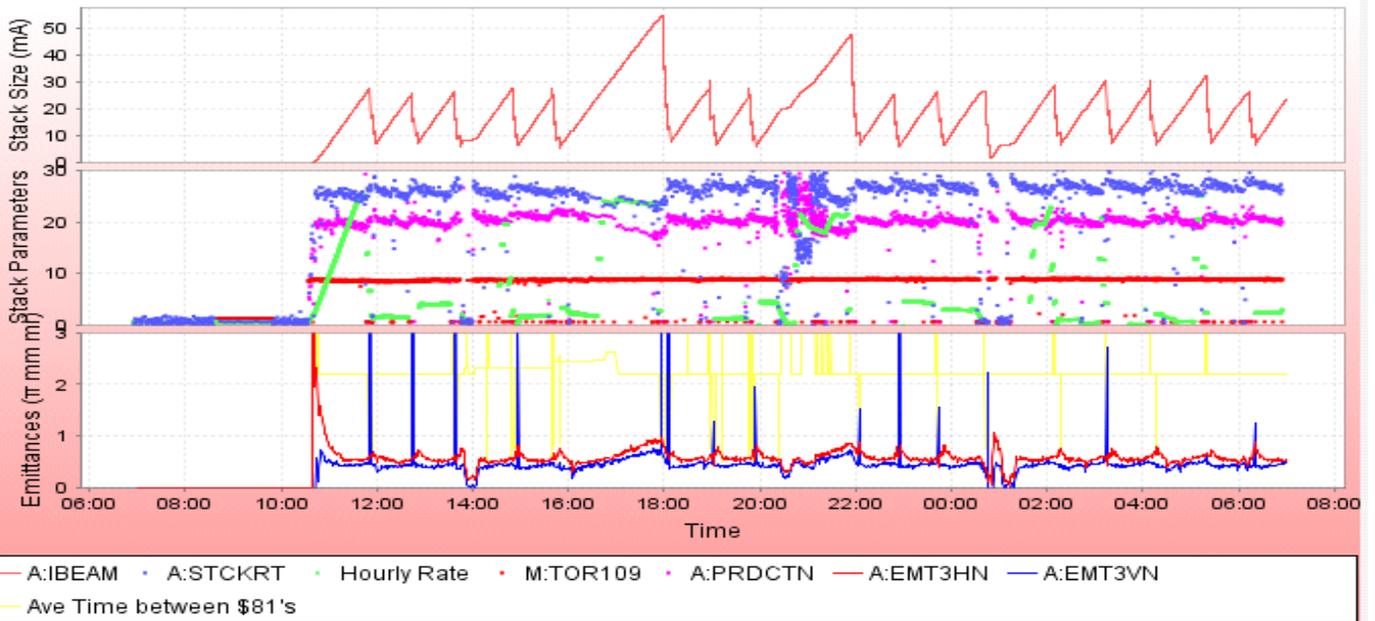
- Stacking
 - Pbars stacked: 493.18 E10
 - Time stacking: 20.88 Hr
 - Average stacking rate: 23.62 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 33002
 - Number of pulses with beam: 31065
 - Fraction of up pulses was: 94.13%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 19.66 Hr
 - Possible average stacking rate: 25.09 E10/Hr
 - Could have stacked: 523.93 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 460.06 E10
 - Number of transfers : 54
 - Number of transfer sets: 18
 - Average Number of transfer per set: 3.00
 - Time taken to shoot including reverse proton tuneup: 00.19 Hr
 - Transfer efficiency: 95.01%
- Other Info
 - Average POT : 8.13 E12
 - Average production: 19.54 pbars/E6 protons

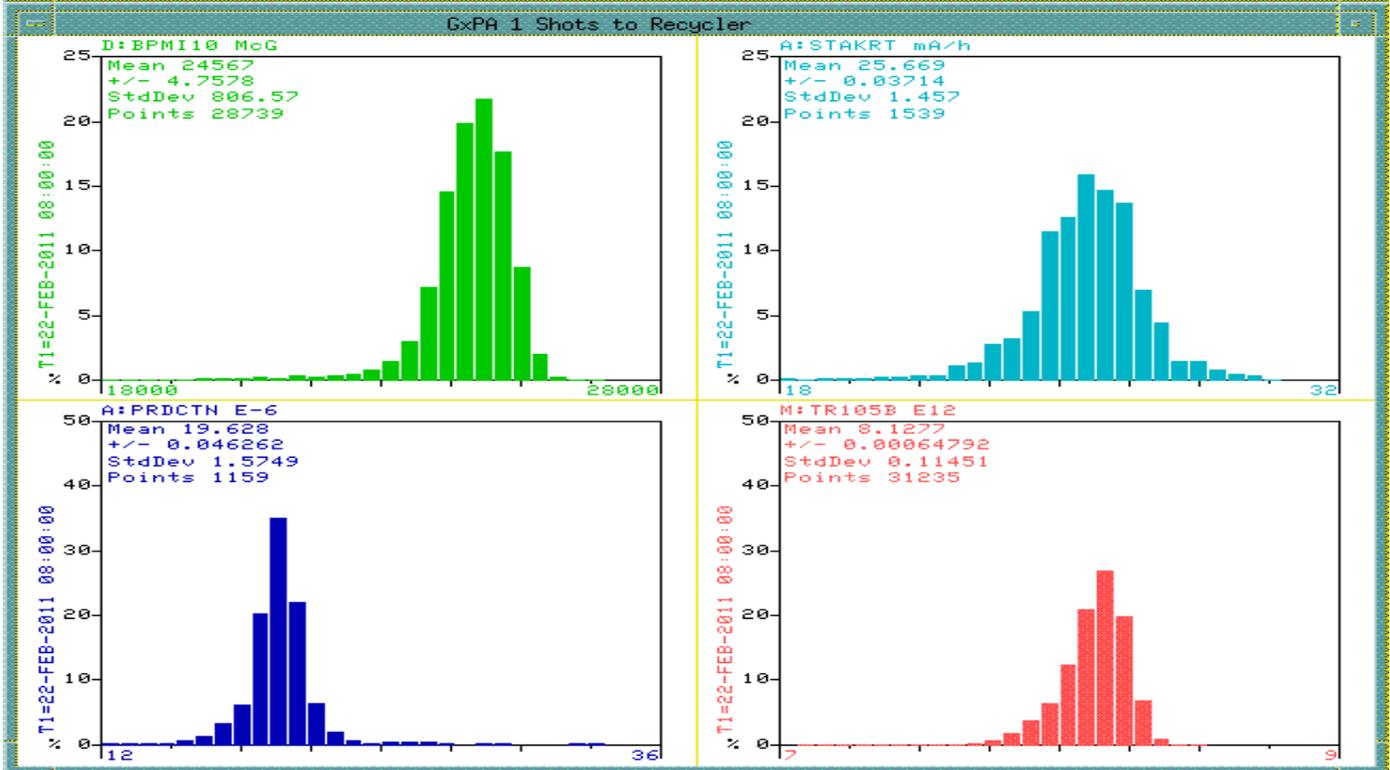
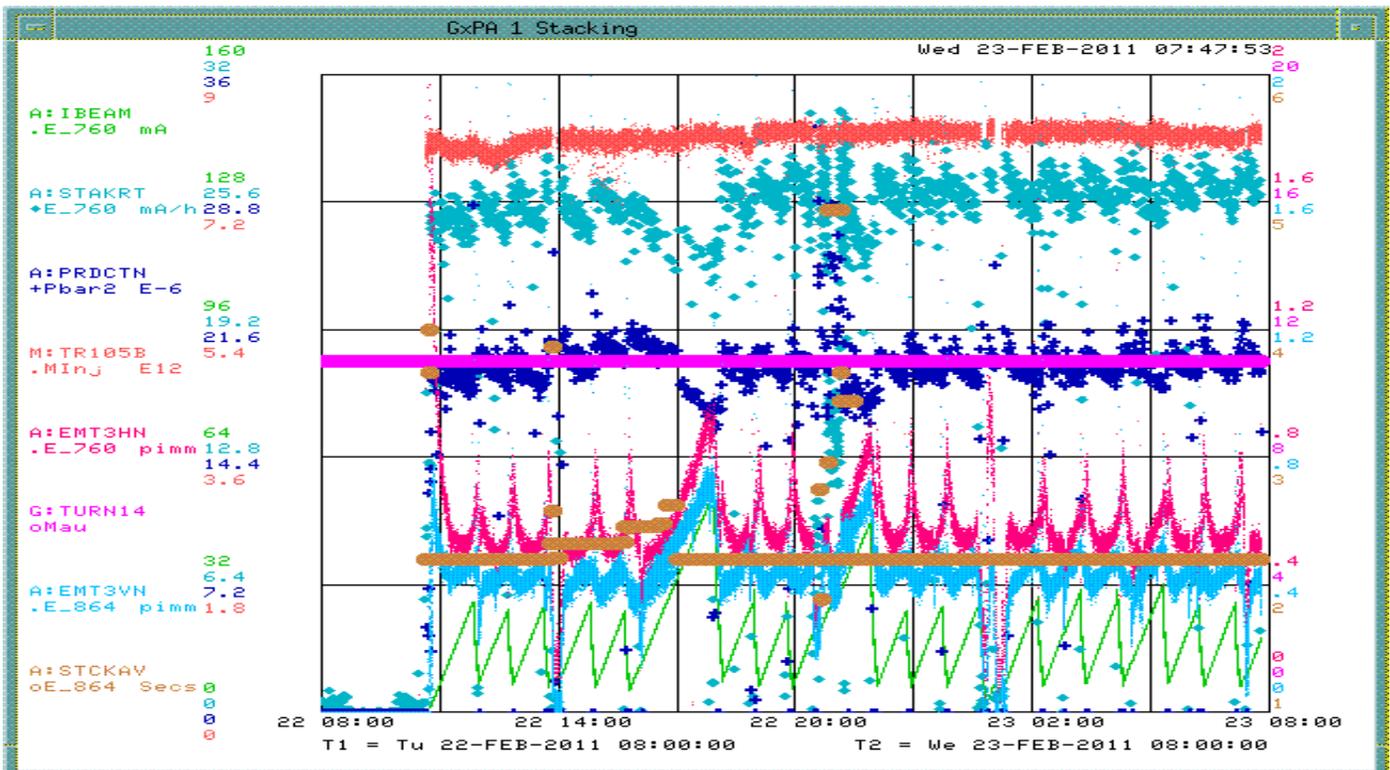
Plots

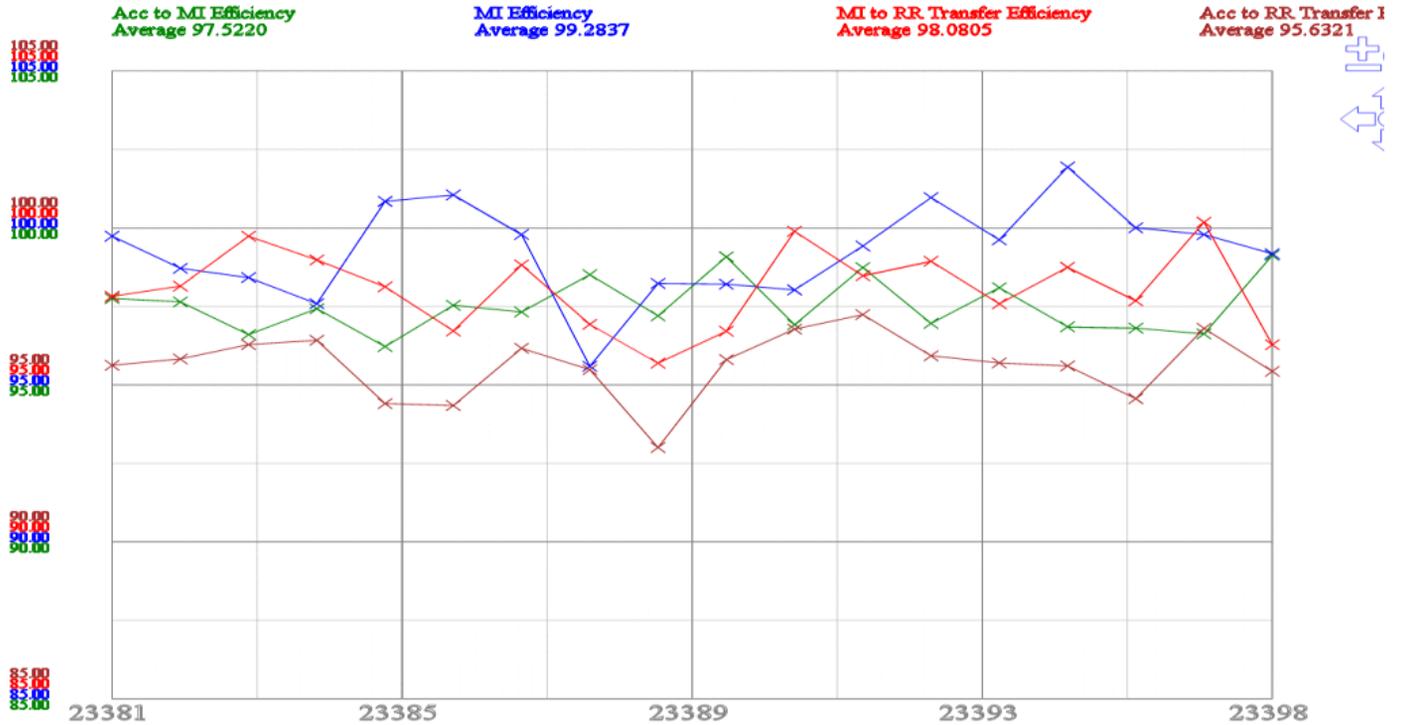
Accelerators (24.0 hrs.)



Tue Feb 22 07:00:00 CST 2011 -- Wed Feb 23 07:00:00 CST 2011







Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A:I BEAMB sampled on \$91 (A:BEAM7), E10	Column 22 Number_21_A:I BEAMB sampled on \$94 (A:BEAM9), E10	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEAM E0) pre sfer E10	Column 24 Number_23_R: BEAM (R:BEAM E0(I)) post sfer, 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 =>				475.09		452.55	95.25%	97.48%	96.75%	94.31%	56	18	5.5091	4.0124	1.9463		
Daily Average =>				475.09		452.55					56	18					
23398	Wednesday, February 23, 2011	7:09	27.60	6.35	23.83	225.62	248.09	22.77	95.54%	99.00%	98.15%	97.17%	3	1	5.62	4.085	1.946
23397	Wednesday, February 23, 2011	6:13	26.72	6.45	22.96	204.56	226.39	22.19	96.63%	96.73%	96.60%	93.44%	3	1	5.135	3.804	1.951
23396	Wednesday, February 23, 2011	5:19	32.36	7.26	27.70	179.44	205.18	26.17	94.49%	96.81%	96.44%	93.36%	3	1	5.77	4.411	1.923
23395	Wednesday, February 23, 2011	4:09	28.22	6.47	24.38	157.09	180.08	23.30	95.54%	97.42%	98.55%	96.01%	3	1	5.698	4.266	1.948
23394	Wednesday, February 23, 2011	3:14	30.81	7.13	26.26	132.90	157.57	25.08	95.50%	97.62%	97.21%	94.90%	3	1	5.605	4.284	1.943
23393	Wednesday, February 23, 2011	2:09	29.01	6.52	25.01	109.77	133.26	23.95	95.74%	97.03%	98.03%	95.12%	3	1	5.518	4.208	1.94
23392	Wednesday, February 23, 2011	0:42	26.73	1.99	24.79	86.16	110.12	24.02	96.91%	98.64%	98.28%	96.94%	3	1	2.481	1.181	1.9
23391	Tuesday, February 22, 2011	23:43	26.66	6.18	23.06	64.55	86.43	22.26	96.51%	96.62%	95.28%	92.06%	3	1	5.748	4.149	1.959
23390	Tuesday, February 22, 2011	22:47	25.31	5.99	21.91	43.87	64.78	20.97	95.70%	99.02%	96.82%	95.87%	3	1	5.704	4.029	1.964
23389	Tuesday, February 22, 2011	21:54	47.92	6.46	45.05	3.16	44.08	41.76	92.70%	96.59%	95.23%	91.99%	4	1	6.817	5.03	1.901
23388	Tuesday, February 22, 2011	19:48	25.41	5.79	21.96	242.55	263.21	21.05	95.83%	98.47%	94.81%	93.36%	3	1	5.723	4.013	1.971
23387	Tuesday, February 22, 2011	18:58	28.25	6.55	24.35	220.58	243.43	23.37	95.98%	97.64%	96.30%	94.02%	3	1	5.852	4.239	1.952
23386	Tuesday, February 22, 2011	17:57	54.87	7.42	50.86	175.27	221.60	47.59	93.58%	97.21%	97.56%	94.84%	4	1	6.477	4.642	1.894
23385	Tuesday, February 22, 2011	15:41	25.35	5.50	22.42	154.94	176.08	21.18	94.50%	96.29%	96.90%	93.30%	3	1	5.455	3.859	1.954
23384	Tuesday, February 22, 2011	14:49	27.48	6.23	23.91	132.54	155.28	23.02	96.29%	97.78%	95.70%	93.57%	3	1	5.454	4.075	1.974
23383	Tuesday, February 22, 2011	13:37	26.25	6.08	22.34	111.72	132.95	21.50	96.26%	97.44%	95.87%	93.42%	3	1	5.223	3.741	1.959
23382	Tuesday, February 22, 2011	12:44	25.68	6.90	21.32	91.72	112.02	20.44	95.86%	97.80%	96.91%	94.78%	3	1	5.586	3.974	1.983
23381	Tuesday, February 22, 2011	11:51	27.75	7.26	23.00	70.25	91.97	21.95	95.42%	97.74%	96.89%	94.69%	3	1	5.298	4.234	1.971

Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A:J BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number_21_A:J BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEA ME0[0]) pre xfer E10	Column 24 Number_23_R: BEAM (R:BEA ME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to M12 Eff	Acc to MI * Acc to M12 Efficiency	Trans fers	Sets	Column 5 Number_4_Acc Horizontal Emittanc e	Column 6 Number_5_Acc Vertical Emittanc e	Column 8 Number_7_Acc Longitu dinal Emittanc e		
Totals =>				351.49			337.03	95.88%	97.68%	96.85%	94.60%	56	15	5.34	3.8761	1.9543		
Daily Average =>				351.49			337.03					56	15					
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