

2011-01-12 Wednesday Morning Notes

Wednesday, January 12, 2011

7:38 AM

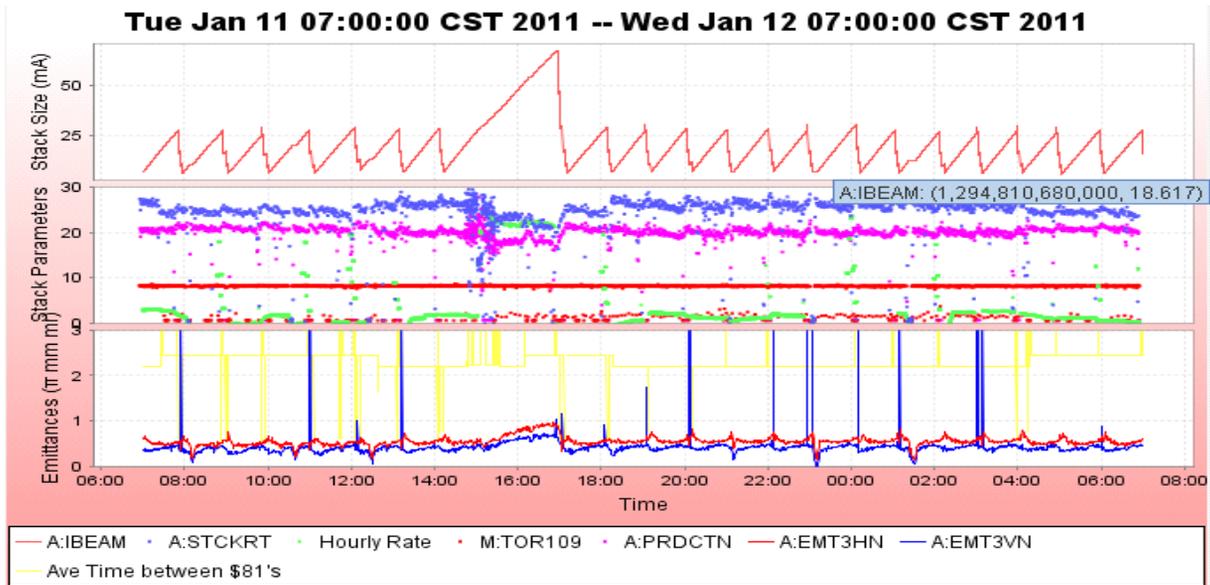
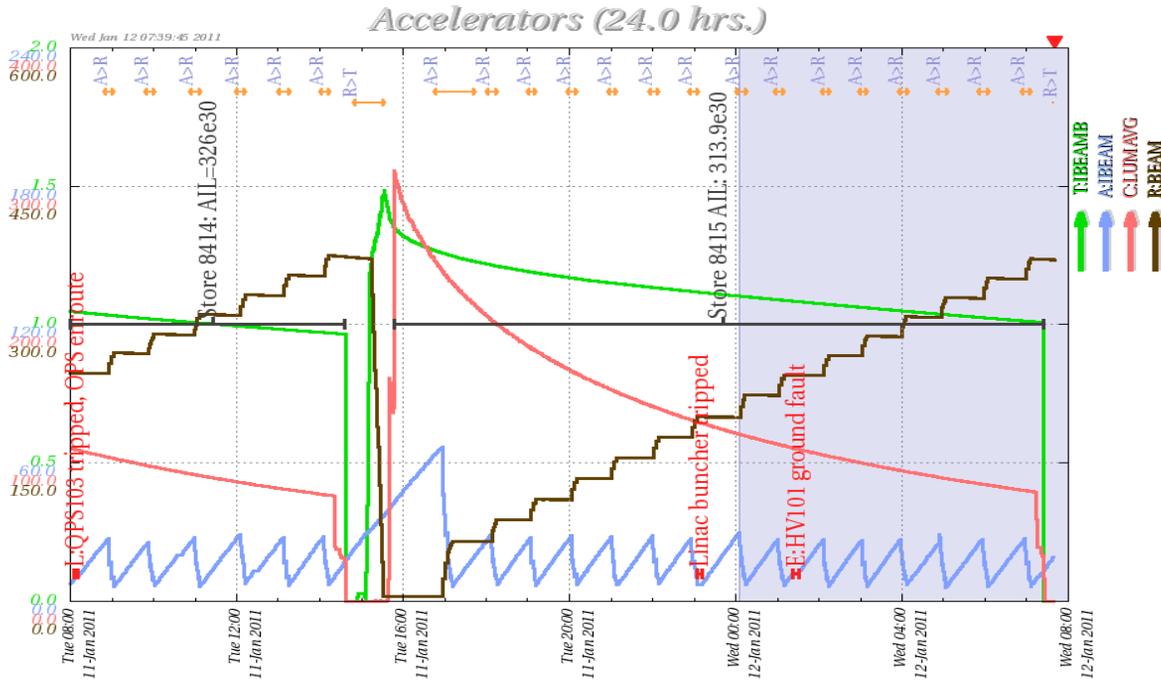
Stacking and Transfers

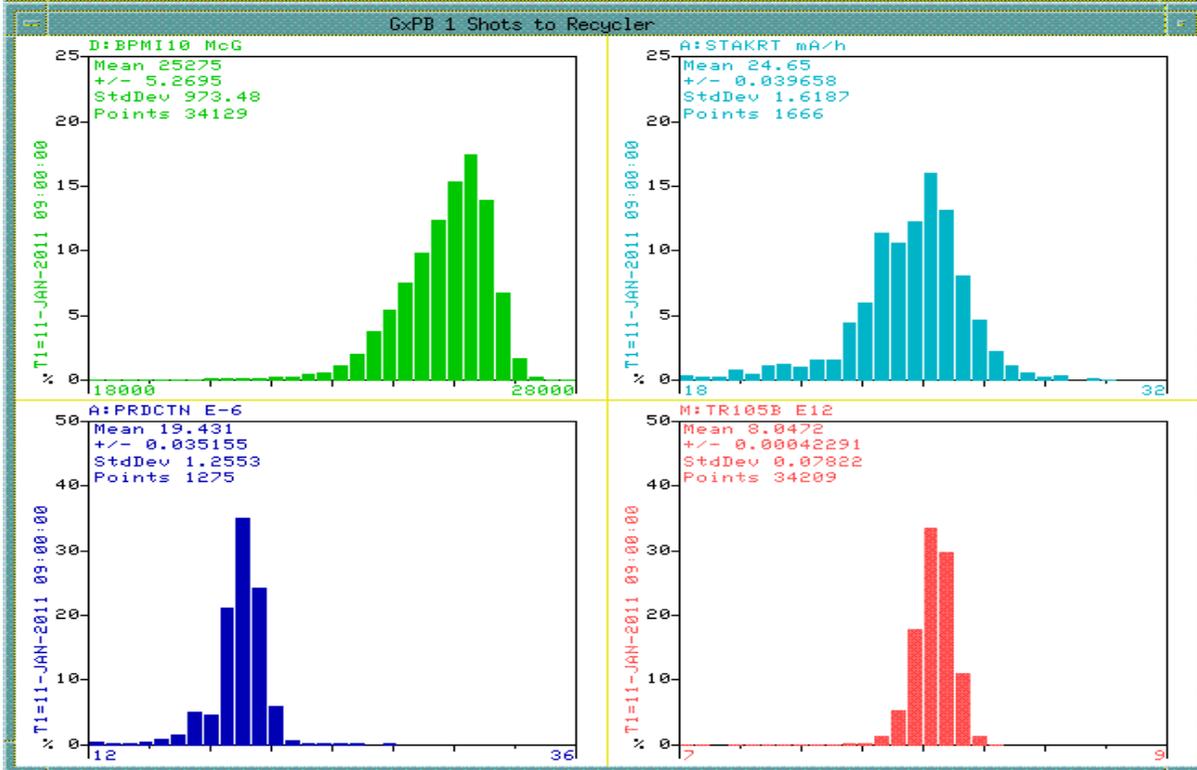
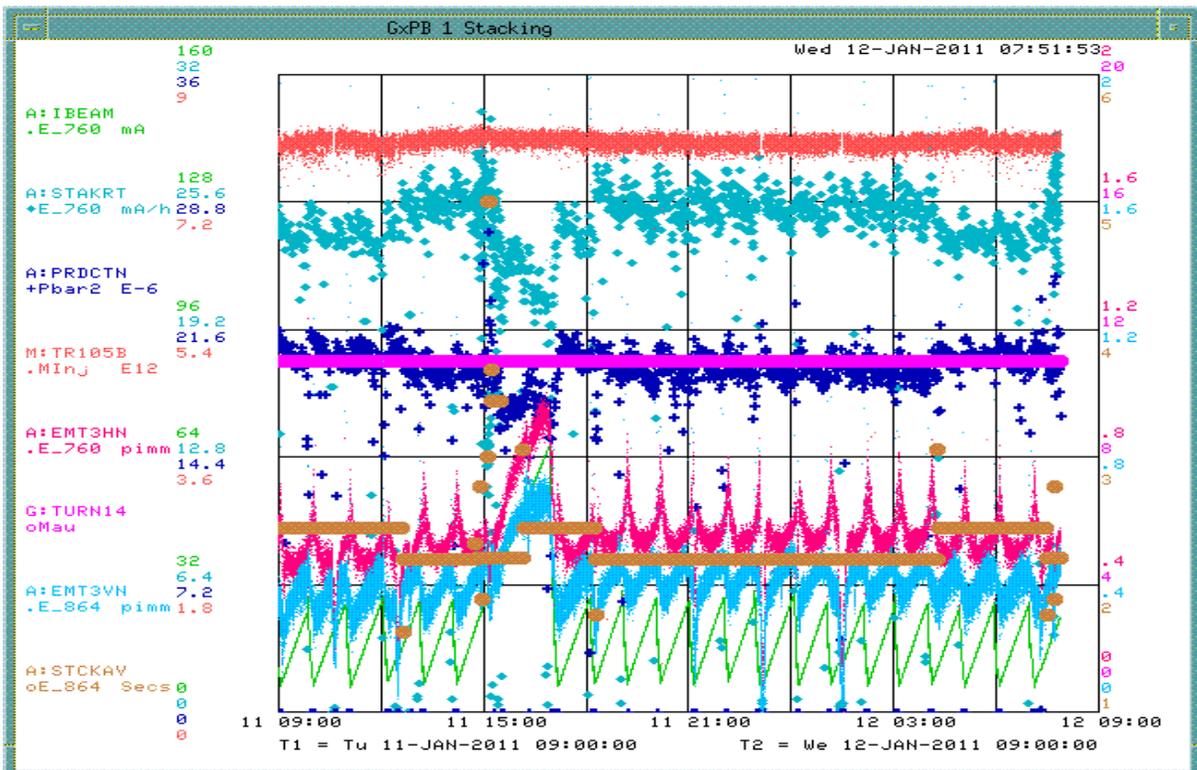
- Stacked 24.7mA/hr with a production of 19.4 pbar/Mp with 8.05 Tp on target.
- Unstacked 539E10 in 65 transfers over 21 sets with an average efficiency of 95.7%.

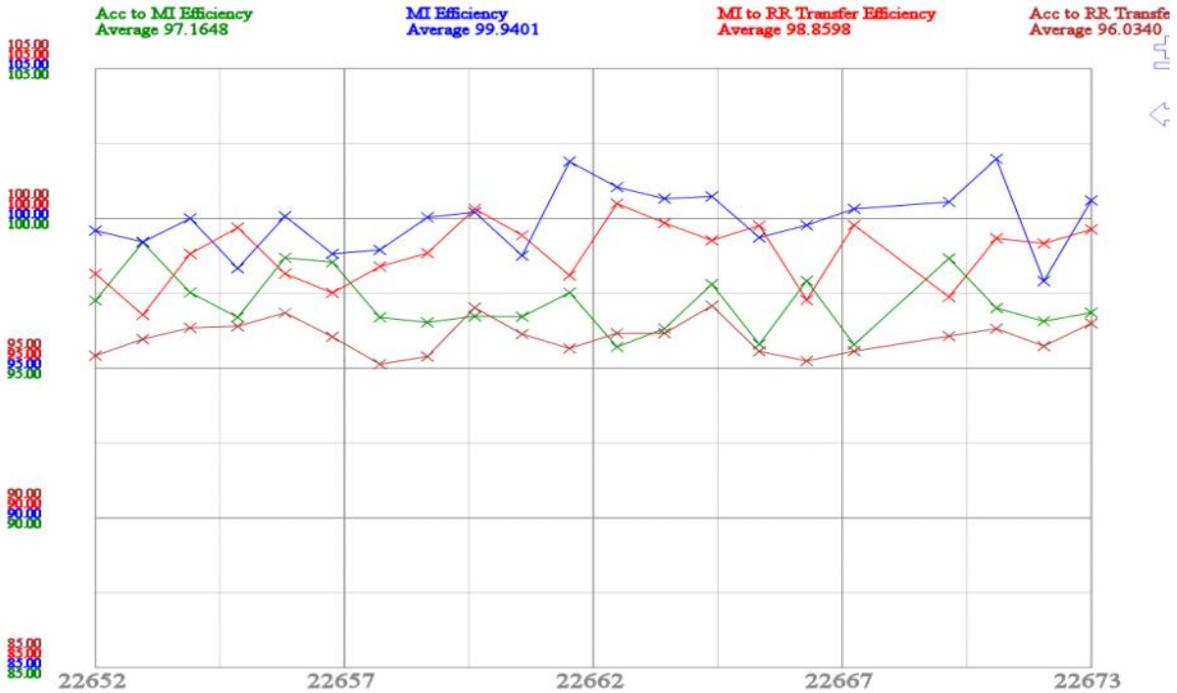
Numbers

- Stacking
 - Pbars stacked: 397.96 E10
 - Time stacking: 23.84 Hr
 - Average stacking rate: 16.70 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 36531
 - Number of pulses with beam: 35466
 - Fraction of up pulses was: 97.08%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 23.14 Hr
 - Possible average stacking rate: 17.20 E10/Hr
 - Could have stacked: 409.91 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 396.08 E10
 - Number of transfers : 47
 - Number of transfer sets: 22
 - Average Number of transfer per set: 2.14
 - Time taken to shoot including reverse proton tuneup: 00.16 Hr
 - Transfer efficiency: 95.20%
- Other Info
 - Average POT : 8.04 E12
 - Average production: 13.95 pbars/E6 protons

Plots







Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A-I BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number_21_A-I 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 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 =>				539.18			517.40	95.96%	97.10%	97.03%	94.21%	65	21	5.4204	3.8421	1.9459	
Daily Average =>				539.18			517.40					65	21				
22673	Wednesday, January 12, 2011	6:58	27.52	6.25	23.75	349.29	371.61	22.83	96.13%	96.86%	97.39%	94.34%	3	1	5.34	3.899	1.931
22672	Wednesday, January 12, 2011	5:57	27.48	6.33	23.61	328.49	350.68	22.64	95.85%	96.57%	94.90%	91.65%	3	1	5.339	3.898	1.942
22671	Wednesday, January 12, 2011	4:56	26.54	6.04	22.97	307.91	329.66	22.15	96.42%	97.65%	98.76%	96.44%	3	1	5.306	3.794	1.954
22670	Wednesday, January 12, 2011	3:59	27.39	6.64	23.25	286.95	308.92	22.31	95.96%	98.37%	98.65%	97.04%	3	1	5.795	4.158	1.934
22668	Wednesday, January 12, 2011	2:07	27.05	6.51	23.07	244.94	266.65	22.12	95.90%	96.05%	96.33%	92.52%	3	1	5.558	4.14	1.942
22667	Wednesday, January 12, 2011	1:02	27.41	6.61	23.30	223.33	245.45	22.20	95.31%	97.88%	97.83%	95.76%	3	1	5.565	4.104	1.955
22666	Wednesday, January 12, 2011	0:06	30.32	6.74	25.64	199.54	223.74	24.60	95.94%	96.08%	95.45%	91.71%	3	1	5.075	3.821	1.939
22665	Tuesday, January 11, 2011	22:57	27.85	6.75	23.65	177.71	200.16	22.88	96.75%	97.65%	97.90%	95.60%	3	1	5.696	3.939	1.964
22664	Tuesday, January 11, 2011	22:01	28.68	7.34	23.94	155.36	178.01	23.02	96.16%	96.10%	96.58%	92.82%	3	1	5.689	4.055	1.934
22663	Tuesday, January 11, 2011	21:01	28.03	6.74	23.77	133.14	155.72	22.82	96.01%	96.03%	96.52%	92.68%	3	1	5.614	3.865	1.95
22662	Tuesday, January 11, 2011	20:03	28.67	7.05	24.21	110.28	133.32	23.21	95.89%	97.38%	98.49%	95.92%	3	1	5.831	4.01	1.964
22661	Tuesday, January 11, 2011	19:04	27.81	6.87	23.49	88.17	110.55	22.57	96.07%	96.63%	95.78%	92.55%	3	1	5.648	3.967	1.95
22660	Tuesday, January 11, 2011	18:07	29.02	7.01	24.27	65.01	88.32	23.57	97.13%	97.15%	97.17%	94.40%	3	1	5.312	3.79	1.967
22659	Tuesday, January 11, 2011	16:57	67.12	6.32	65.03	4.92	65.39	61.65	94.79%	96.45%	96.39%	92.96%	5	1	6.145	4.374	1.857
22658	Tuesday, January 11, 2011	14:06	28.30	6.85	24.02	352.47	374.96	22.90	95.33%	97.02%	96.27%	93.40%	3	1	5.133	3.621	1.935
22657	Tuesday, January 11, 2011	13:08	28.24	6.78	24.02	331.29	353.96	23.13	96.29%	98.00%	97.36%	95.41%	3	1	5.448	3.5	1.955
22656	Tuesday, January 11, 2011	12:05	29.00	7.73	23.73	310.23	332.79	22.98	96.81%	98.44%	98.78%	97.24%	3	1	5.089	3.497	1.981
22655	Tuesday, January 11, 2011	10:59	27.64	6.20	23.91	288.79	311.41	23.08	96.52%	96.88%	96.19%	93.19%	3	1	4.879	3.487	1.949
22654	Tuesday, January 11, 2011	9:53	25.98	6.27	22.27	268.79	289.87	21.44	96.27%	97.82%	97.26%	95.14%	3	1	5.146	3.588	1.971
22653	Tuesday, January 11, 2011	8:55	27.63	6.35	23.78	247.05	269.58	22.84	96.04%	98.62%	98.28%	96.93%	3	1	5.139	3.67	1.953
22652	Tuesday, January 11, 2011	7:50	27.46	6.42	23.51	225.49	247.76	22.48	95.63%	96.65%	96.64%	93.40%	3	1	5.081	3.507	1.937