

2011-02-03 Thursday Morning Notes

Wednesday, March 02, 2011

3:07 PM

On-call

- Wednesday/Thursday: Stan Johnson
- Friday: Al Sondgeroth
- Saturday: Tony Leveling
- Sunday: DVM

Stacking and Transfers

- Stacked 26.1mA/hr with a production of 21.2 pbars/Mp and 8.29 Tp on target.
- Unstacked 596E10 in 71 transfers over 22 sets with an average overall efficiency of 95.2%.
 - Taking out the three transfers over 40E10, the efficiency is 96.1%

Interesting Happenings

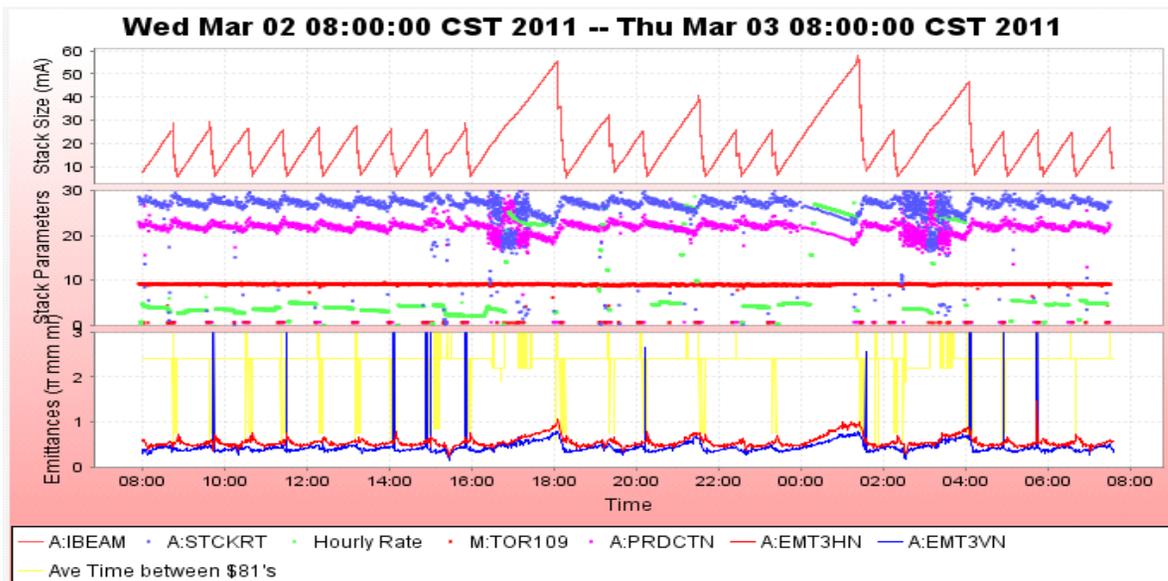
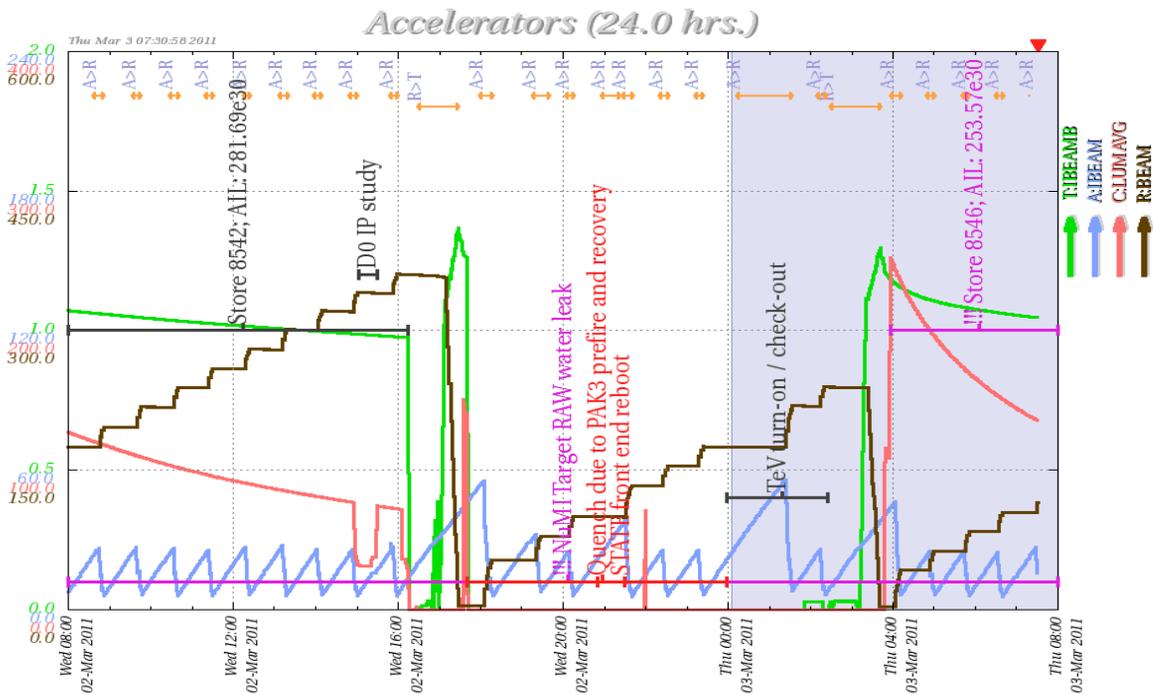
- There has been a rise in the insulating vacuum pressure in the A60 cryo tanks. This could be a mistake in the read back. I have been suspicious of these read backs for some time. All the trouble with the network storms doesn't help with this doubt. It also could be a leak in the system or pump failure. We are preparing a spare pump and valve. This doesn't seem to have affected the cryo operation in A60, so it could probably wait till the shut down next week. I will put a work request on the list.
- Starting to notice PI7 oscillations since the dry engine belt tightening early Saturday afternoon.
- Circuit #2 of dump water system appears to still be leak free

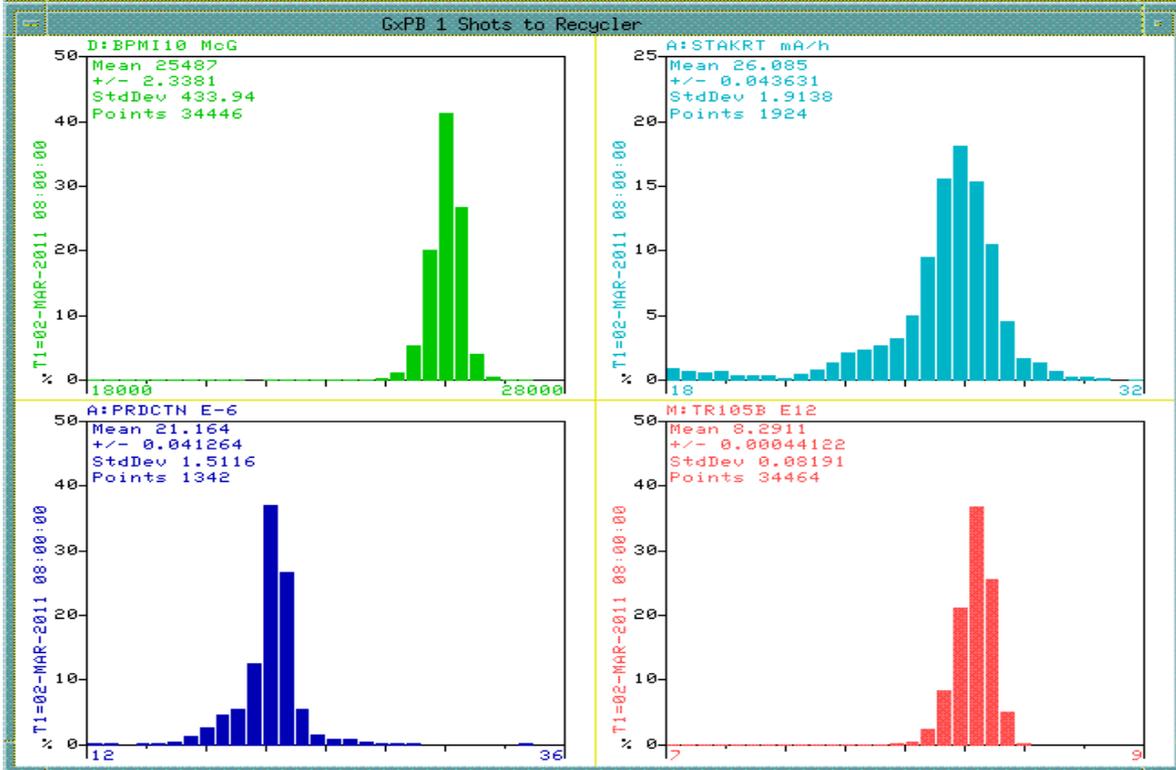
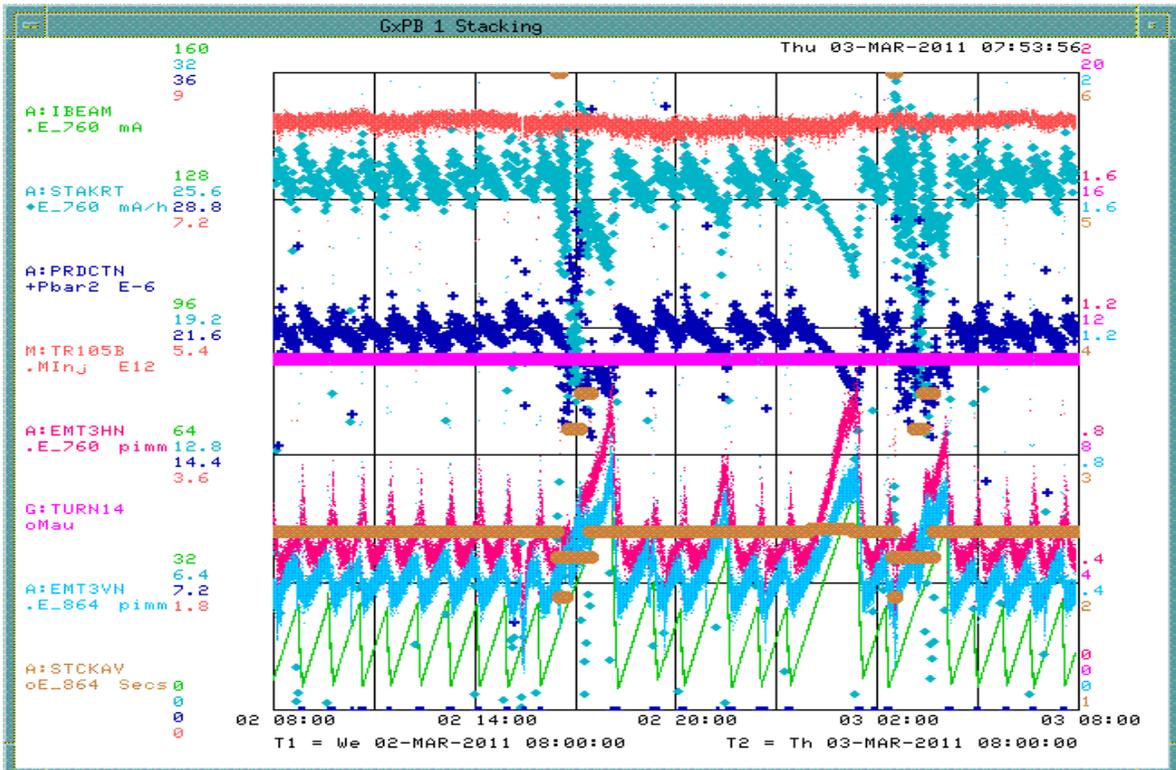
Numbers

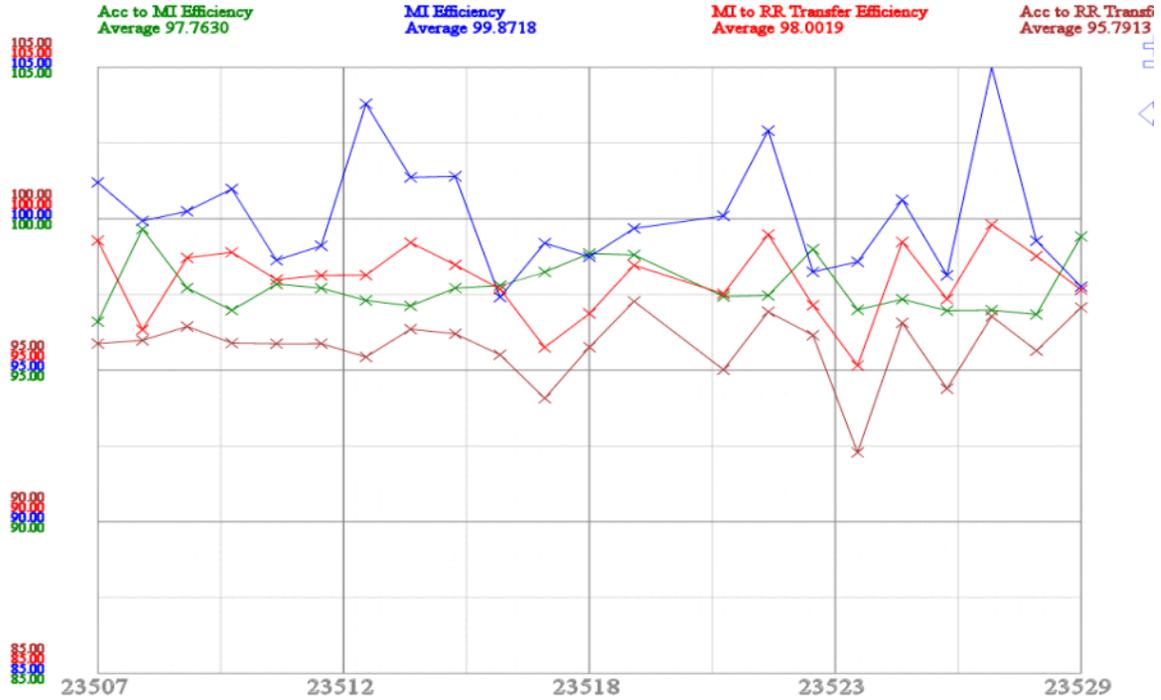
- Stacking
 - Pbars stacked: 592.48 E10
 - Time stacking: 23.76 Hr
 - Average stacking rate: 24.94 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 35203
 - Number of pulses with beam: 34647
 - Fraction of up pulses was: 98.42%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 23.38 Hr
 - Possible average stacking rate: 25.34 E10/Hr
 - Could have stacked: 601.99 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 578.43 E10
 - Number of transfers : 69
 - Number of transfer sets: 24
 - Average Number of transfer per set: 2.88
 - Time taken to shoot including reverse proton tuneup: 00.24 Hr
 - Transfer efficiency: 94.92%

- Other Info
 - Average POT : 8.28 E12
 - Average production: 20.65 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(I)) pre fer E10	Column 24 Number_23_R: BEAM (R-BEA ME0(I)) post fer, 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 =>				596.01		567.34	95.19%	97.67%	97.53%	95.26%	71	22	5.4106	3.9745	1.9208		
Daily Average =>				596.01		567.34					71	22					
23529	Thursday, March 03, 2011	6:33	24.90	5.51	21.54	84.04	104.69	20.89	96.98%	99.06%	98.14%	97.22%	3	1	5.032	3.68	1.914
23528	Thursday, March 03, 2011	5:44	25.70	5.99	22.24	63.03	84.19	21.32	95.85%	97.21%	96.69%	93.99%	3	1	4.753	3.682	1.928
23527	Thursday, March 03, 2011	4:54	25.24	5.88	21.55	42.62	63.24	20.81	96.58%	96.78%	100.71%	97.47%	3	1	4.874	3.693	1.937
23526	Thursday, March 03, 2011	4:03	46.44	6.35	43.16	3.33	43.00	40.37	93.54%	96.70%	95.52%	92.37%	4	1	6.314	4.643	1.875
23525	Thursday, March 03, 2011	2:14	25.97	5.78	22.37	218.62	239.70	21.53	96.27%	97.25%	97.13%	94.46%	3	1	5.184	3.697	1.941
23524	Thursday, March 03, 2011	1:24	55.98	7.82	51.50	174.47	219.95	47.08	91.41%	96.29%	95.34%	91.80%	4	1	7.244	5.231	1.836
23523	Wednesday, March 02, 2011	23:17	25.70	6.01	22.23	154.12	175.22	21.41	96.31%	98.97%	97.22%	96.22%	3	1	4.963	3.838	1.967
23522	Wednesday, March 02, 2011	22:25	25.81	5.84	22.44	133.10	154.47	21.71	96.74%	98.05%	100.08%	98.12%	3	1	4.997	3.485	1.929
23521	Wednesday, March 02, 2011	21:31	38.72	5.49	36.44	99.66	133.50	34.54	94.75%	97.83%	97.60%	95.47%	4	1	5.899	4.25	1.909
23519	Wednesday, March 02, 2011	20:08	25.29	6.03	21.77	79.20	100.02	21.06	96.76%	98.73%	98.29%	97.04%	3	1	5.15	3.966	1.943
23518	Wednesday, March 02, 2011	19:20	32.35	7.45	27.44	53.29	79.39	26.30	95.83%	98.95%	97.64%	96.61%	3	1	5.505	4.217	1.926
23517	Wednesday, March 02, 2011	18:05	55.62	5.43	54.63	4.16	53.60	50.72	92.83%	97.36%	96.64%	94.09%	5	1	6.778	4.86	1.884
23516	Wednesday, March 02, 2011	15:52	26.82	6.05	22.90	339.78	361.10	21.85	95.40%	97.30%	95.66%	93.07%	3	1	5.245	3.863	1.921
23515	Wednesday, March 02, 2011	14:54	26.23	5.81	22.61	320.18	341.48	21.77	96.25%	98.01%	99.00%	97.03%	3	1	5.083	3.828	1.922
23514	Wednesday, March 02, 2011	14:03	26.38	5.91	22.66	300.33	321.62	21.82	96.29%	97.37%	98.20%	95.62%	3	1	5.276	3.668	1.915
23513	Wednesday, March 02, 2011	13:12	27.66	6.15	23.64	279.43	301.56	22.55	95.41%	97.54%	99.66%	97.20%	3	1	5.468	3.938	1.904
23512	Wednesday, March 02, 2011	12:17	26.92	6.02	23.05	258.60	280.40	22.17	96.17%	98.25%	97.61%	95.91%	3	1	5.49	3.828	1.937
23511	Wednesday, March 02, 2011	11:24	25.89	5.96	22.12	238.64	259.46	21.17	95.71%	97.97%	96.62%	94.66%	3	1	5.105	3.704	1.921
23510	Wednesday, March 02, 2011	10:34	26.75	5.98	22.96	217.62	239.27	22.06	96.04%	97.27%	97.94%	95.27%	3	1	5.261	3.852	1.926
23509	Wednesday, March 02, 2011	9:39	26.91	5.96	23.44	195.92	218.21	22.61	96.48%	98.03%	98.90%	96.95%	3	1	5.265	3.845	1.954
23508	Wednesday, March 02, 2011	8:45	26.37	5.59	22.99	174.49	196.33	22.12	96.19%	99.20%	99.23%	98.43%	3	1	4.991	3.792	1.939
23507	Wednesday, March 02, 2011	7:50	25.92	5.75	22.34	153.65	174.89	21.51	96.29%	97.46%	97.60%	95.13%	3	1	5.16	3.876	1.93

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Totals =>				424.38			407.67	96.06%	97.99%	98.11%	96.14%	68	18	5.1967	3.8237	1.9296	
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