

2011-04-14 Thursday Morning Notes

Thursday, April 14, 2011
6:59 AM

Stacking and Transfers

- Stacked
- Unstacked 538 (269/day) in 59 transfers (30/day) over 18 sets (9/day) with an average efficiency of 94.8%
 - Transfer 24078 (April 13, 3:55)? Unstacked 70mA/stashed 0E10?
 - Take out that transfer and transfer 24068 from 63mA, and transfer 24079 from 80mA, we get 95.5%

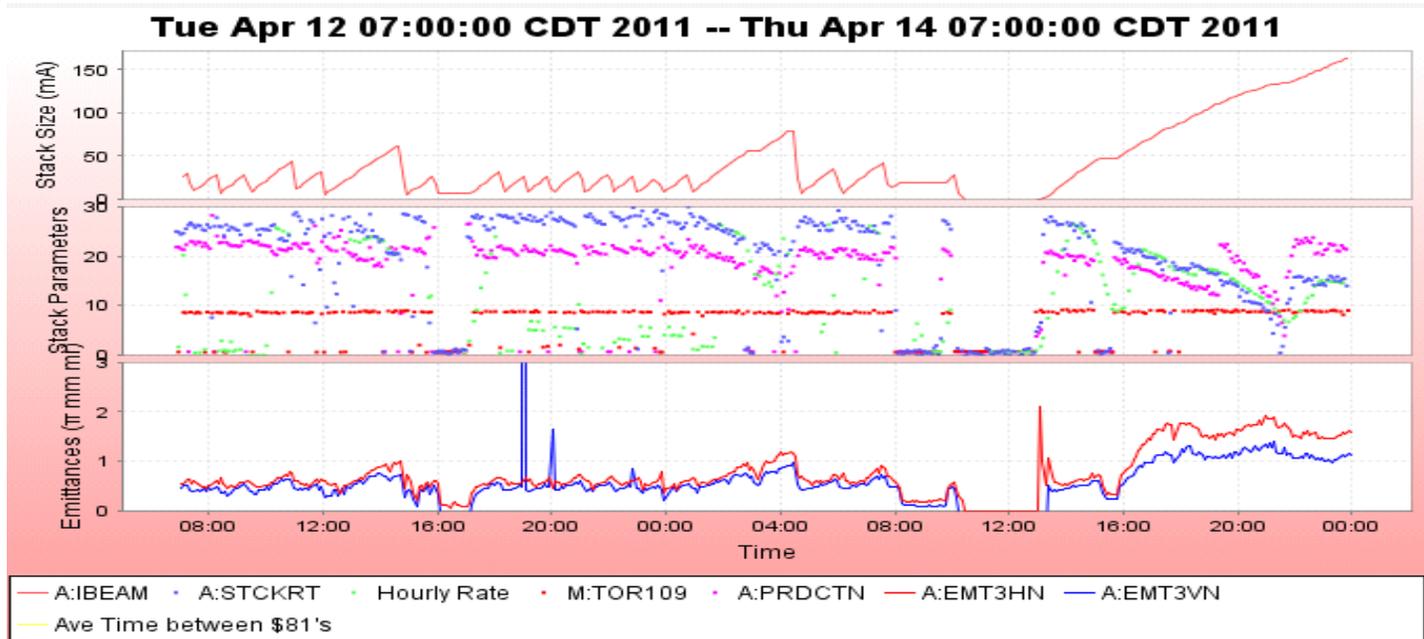
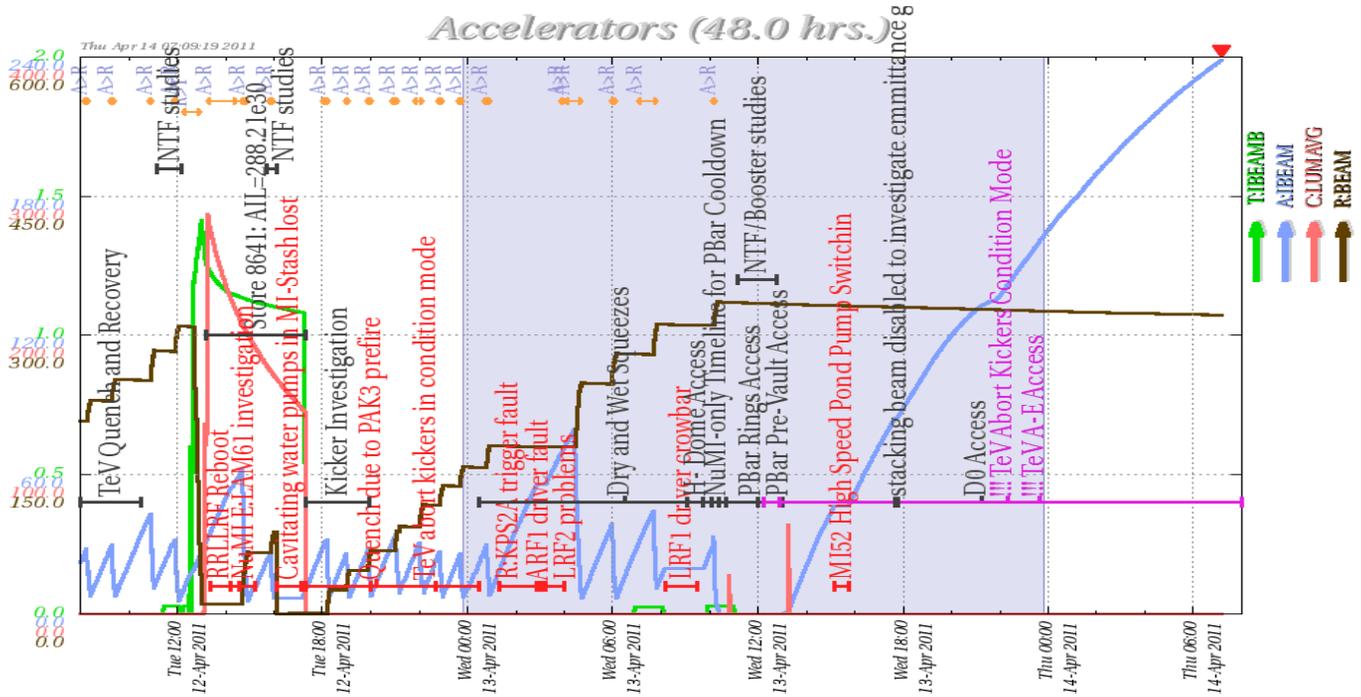
Operational Happenings

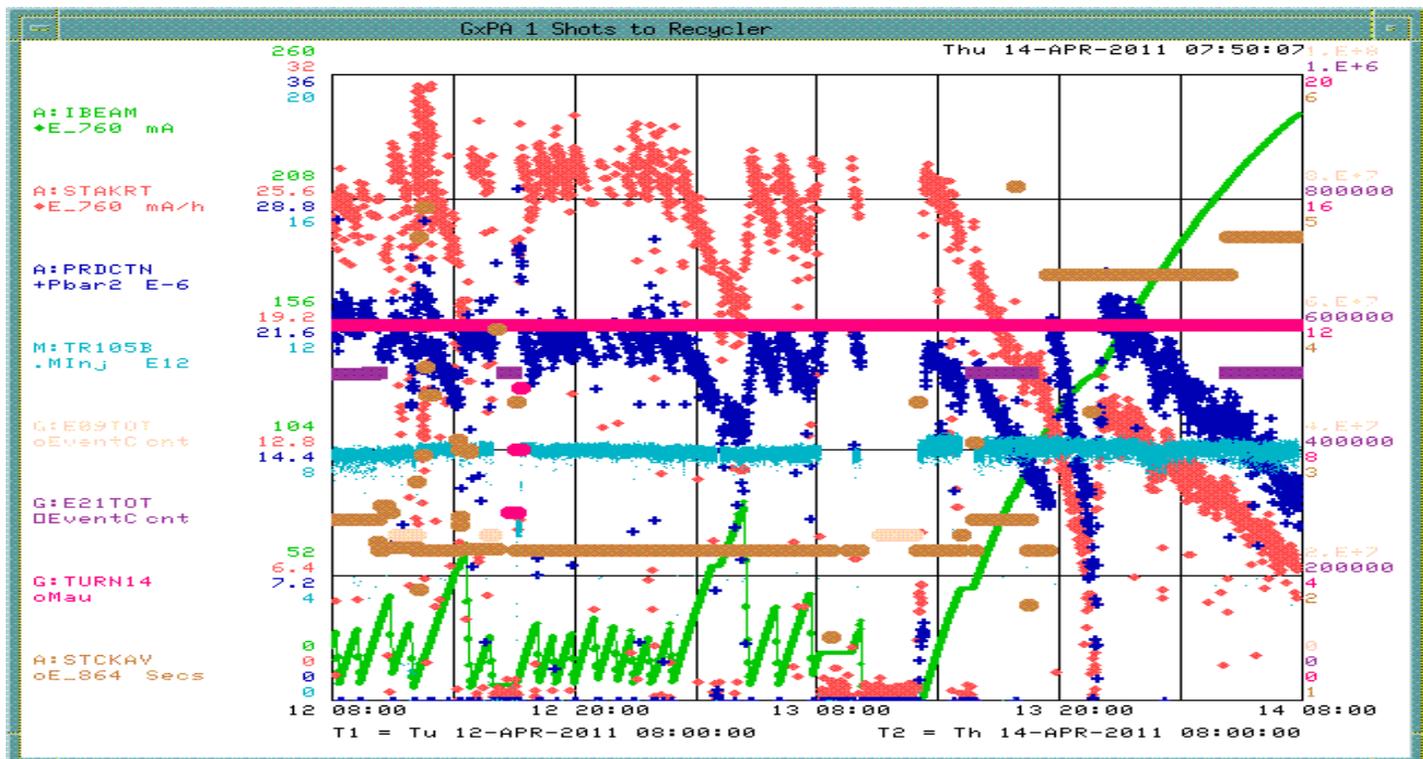
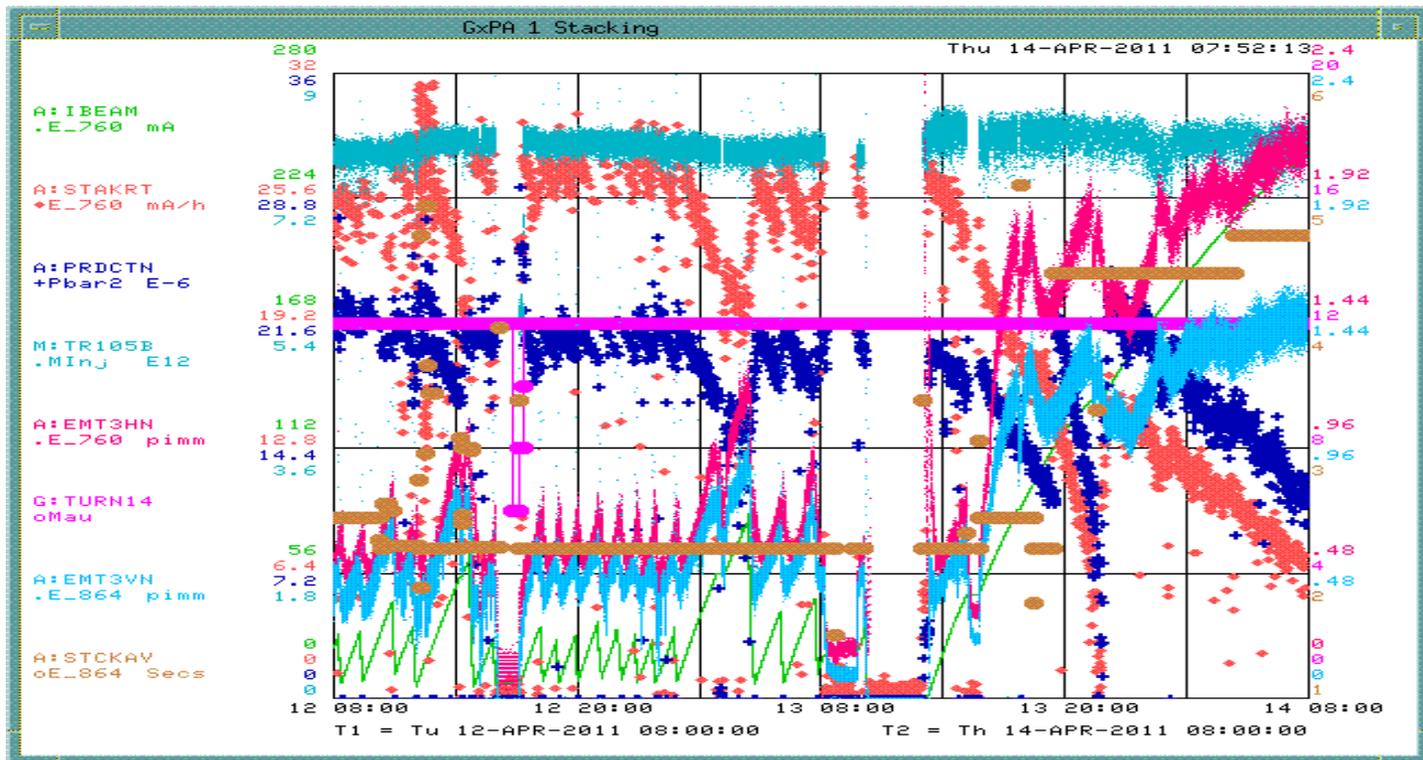
- Two day summary
- Wednesday afternoon downtime
 - Water Cage access. We were running both dump water circuits. Isolated and found that Circuit #2 is leaking. Running circuit #1 and it appears to be leak free. When downtime presents itself, Tony want to pull blocks and check fittings and repeat CARGO sealup procedure for circuit #2.
 - Tied in the Emergency Generator at AP-50 panel
AP50 PP-AP50-1
 - Replaced trim supply A:V506

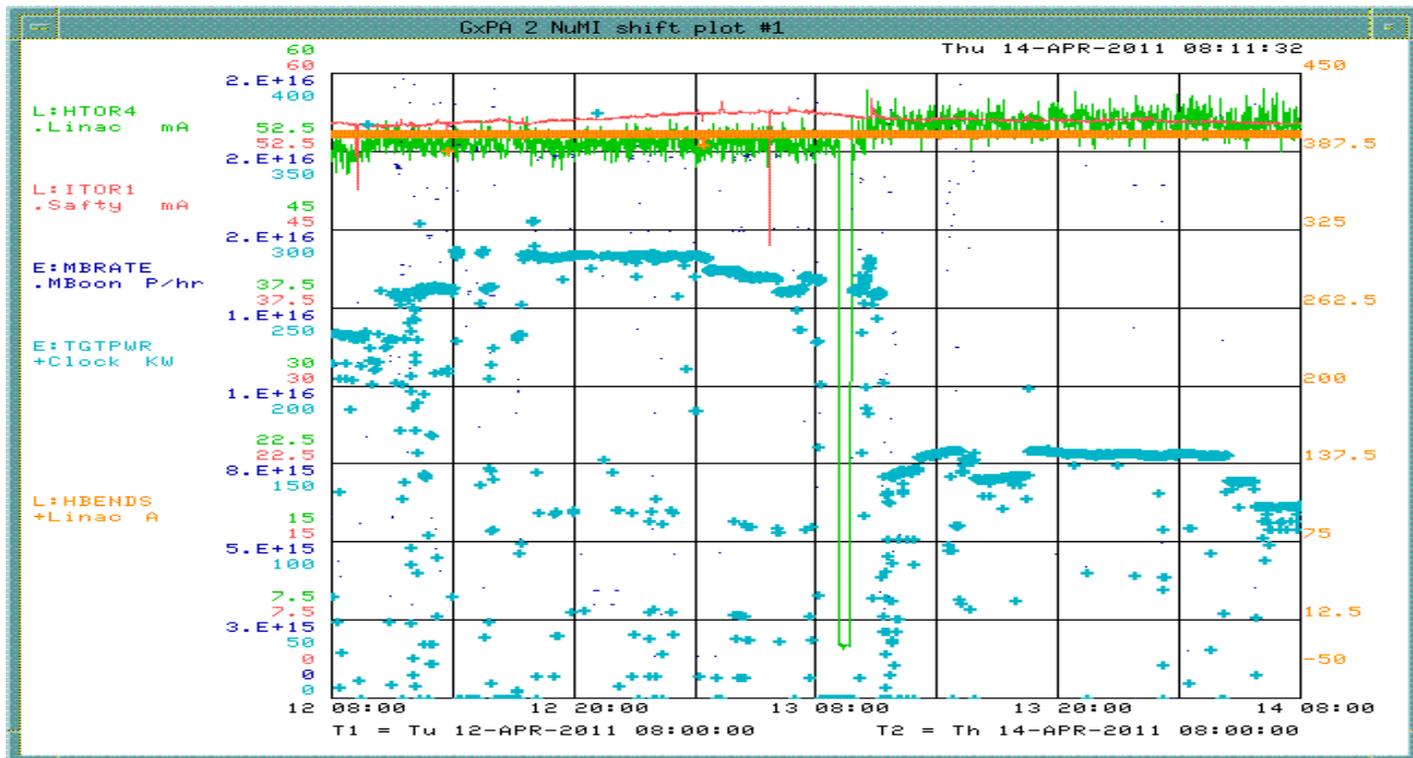
Numbers

- Stacking
 - Pbars stacked: 806.14 E10
 - Time stacking: 42.33 Hr
 - Average stacking rate: 19.04 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 56849
 - Number of pulses with beam: 54152
 - Fraction of up pulses was: 95.26%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 40.32 Hr
 - Possible average stacking rate: 19.99 E10/Hr
 - Could have stacked: 846.28 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 572.51 E10
 - Number of transfers : 62
 - Number of transfer sets: 20
 - Average Number of transfer per set: 3.10
 - Time taken to shoot including reverse proton tuneup: 00.22 Hr
 - Transfer efficiency: 94.21%
- Other Info
 - Average POT : 7.97 E12
 - Average production: 18.69 pbars/E6 protons

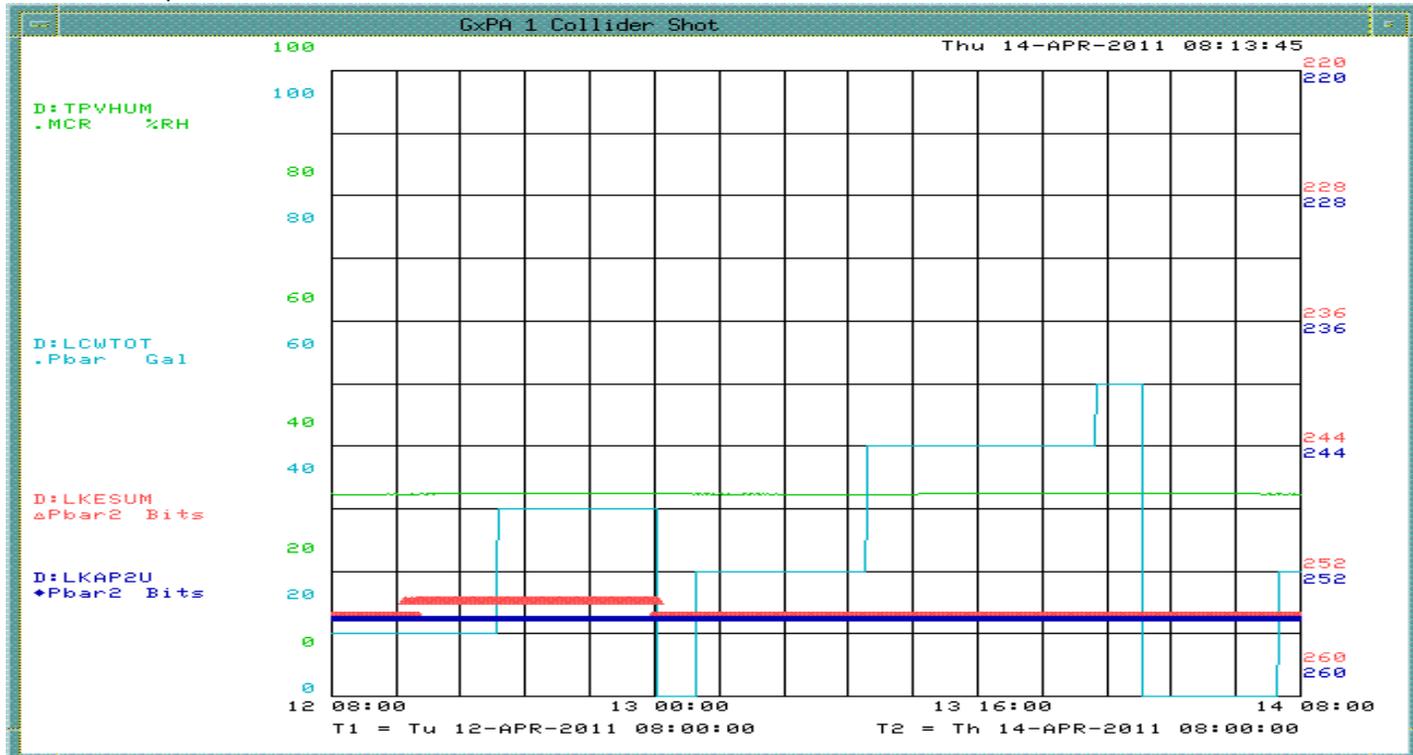
Plots

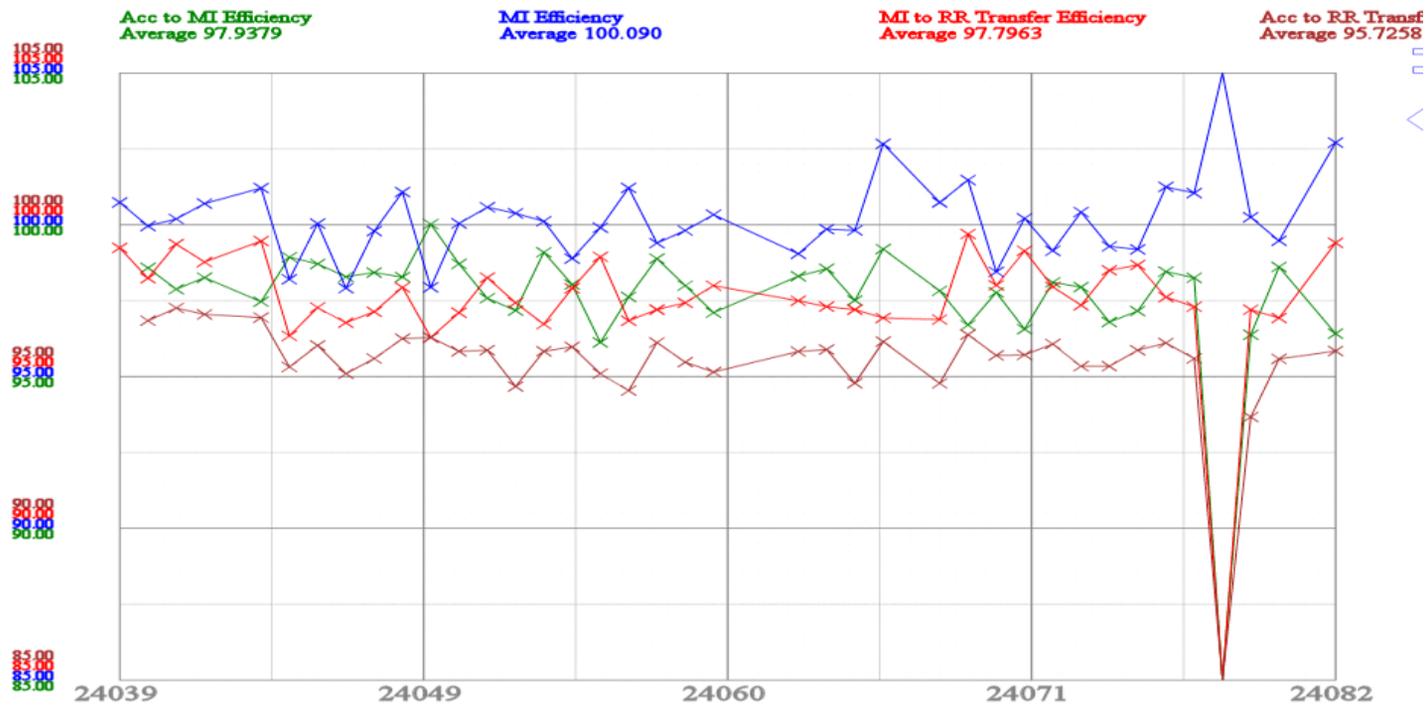
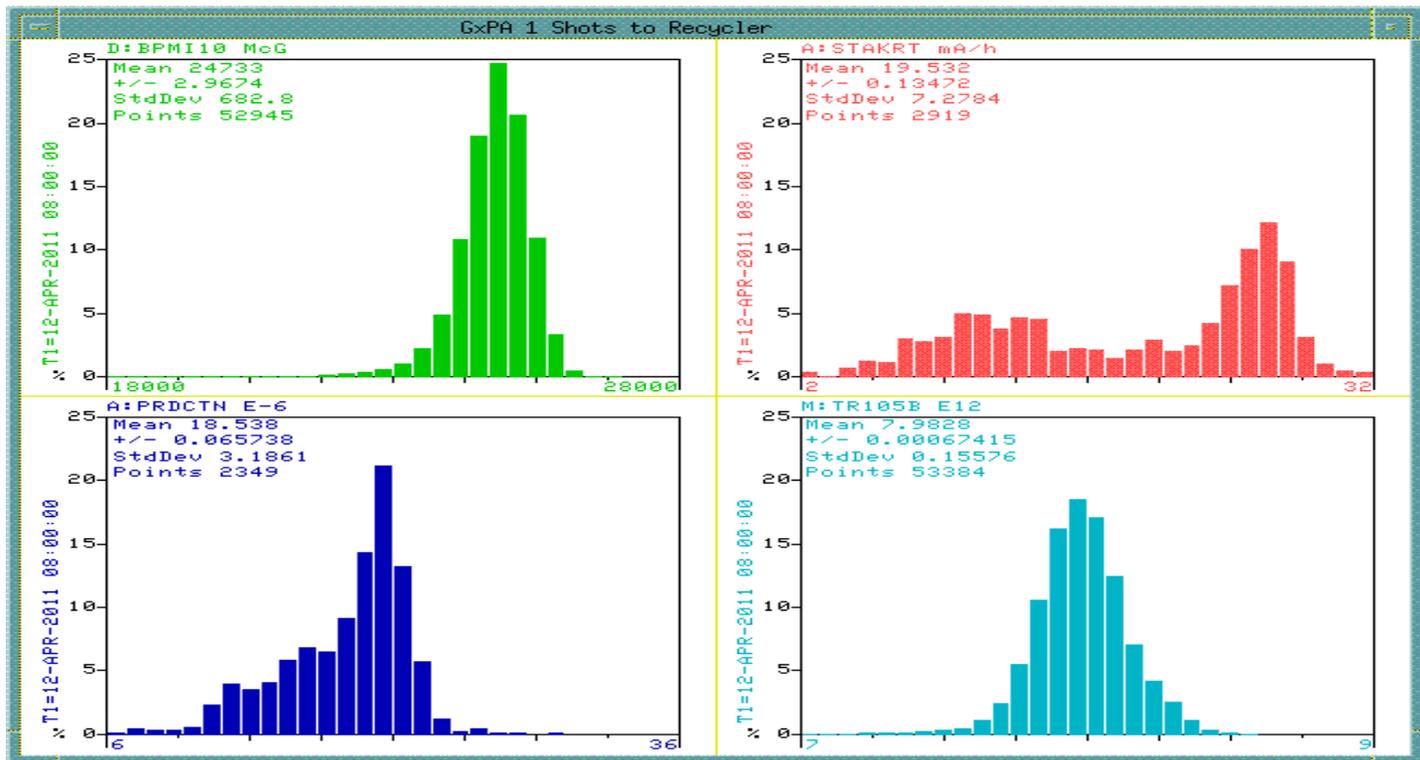






H- Source output increases?





Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_ Transfer Time	Column 21 Number _20_A:l BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A:l BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R:BEA ME0[0]) pre fer E10	Column 24 Number _23_R-B EAM (R:BEA ME0[1]) 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 =>				538.33			510.55	94.84%	97.49%	97.45%	95.01%	59	18	6.0932	4.4716	1.9688	
Daily Average =>				269.16			255.27					30	9				
24082	Wednesday, April 13, 2011	10:11	29.56	1.96	27.51	310.71	336.50	26.25	95.42%	96.42%	97.74%	94.24%	3	1	2.509	0.842	1.889
24080	Wednesday, April 13, 2011	5:59	38.80	6.66	36.03	247.73	281.08	34.27	95.14%	98.61%	97.78%	96.42%	4	1	6.456	4.874	1.99
24079	Wednesday, April 13, 2011	4:27	80.24	6.57	79.22	179.96	249.60	73.03	92.19%	96.41%	96.11%	92.66%	6	1	8.01	5.802	1.899
24078	Wednesday, April 13, 2011	3:55	70.24	71.19	0.00	180.14	180.13	0.03	-2800.00%	16100.00%	53400.00%	8597400.00%	2	1	9.909	8.112	
24077	Wednesday, April 13, 2011	0:48	30.01	7.68	24.97	157.91	181.31	23.86	95.55%	98.09%	98.66%	96.78%	3	1	6.003	4.428	1.997
24076	Tuesday, April 12, 2011	23:42	26.25	6.87	22.04	137.74	158.60	21.18	96.11%	98.48%	98.95%	97.44%	3	1	5.801	4.387	1.99
24075	Tuesday, April 12, 2011	22:50	26.91	7.05	22.55	117.15	138.42	21.61	95.81%	97.16%	96.70%	93.96%	3	1	5.917	4.073	2.001
24074	Tuesday, April 12, 2011	22:01	30.93	8.44	25.84	93.82	117.99	24.63	95.31%	96.95%	96.55%	93.61%	3	1	6.174	4.724	2.002
24073	Tuesday, April 12, 2011	21:01	34.28	8.84	28.58	67.96	94.67	27.19	95.12%	97.99%	98.50%	96.51%	3	1	6.212	4.836	1.995
24072	Tuesday, April 12, 2011	19:54	28.09	7.34	23.44	46.45	68.62	22.52	96.07%	98.38%	97.67%	96.09%	3	1	5.904	4.395	1.985
24071	Tuesday, April 12, 2011	19:00	26.54	7.05	22.18	26.00	46.93	21.22	95.68%	96.35%	96.75%	93.22%	3	1	5.767	4.246	2.01
24070	Tuesday, April 12, 2011	18:11	32.35	7.44	27.52	0.46	26.35	26.27	95.49%	98.12%	96.12%	94.31%	3	1	6.218	4.427	1.975
24069	Tuesday, April 12, 2011	15:52	27.04	6.48	23.08	66.18	88.14	22.22	96.29%	96.69%	97.40%	94.18%	3	1	5.693	3.986	1.989
24068	Tuesday, April 12, 2011	14:41	62.62	5.36	61.36	10.45	66.61	57.56	93.80%	97.34%	97.82%	95.21%	5	1	6.316	4.588	1.911
24066	Tuesday, April 12, 2011	11:56	32.21	5.10	29.30	282.87	310.42	28.15	96.07%	98.96%	100.48%	99.44%	3	1	5.358	3.658	1.886
24065	Tuesday, April 12, 2011	10:55	43.51	10.80	35.29	251.67	284.20	33.32	94.44%	97.55%	97.42%	95.03%	3	1	6.816	5.131	1.943
24064	Tuesday, April 12, 2011	9:19	29.92	7.31	25.22	229.46	253.06	24.12	95.63%	98.39%	98.60%	97.01%	3	1	5.276	3.95	1.996
24063	Tuesday, April 12, 2011	8:17	28.79	7.15	24.21	207.80	230.40	23.13	95.52%	97.93%	97.28%	95.27%	3	1	5.338	4.03	2.012