

# 2010-10-01 Friday Morning Summary

Friday, October 01, 2010

6:00 AM

## Stacking

- Tony added 1.25 gallons of water to the lens reservoir tank this morning.
  - <http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar10&action=view&page=256&anchor=10:43:02>
- PLC03 hung and reset (ML Deubncher band 1 and 2 systems in the A10-2 stub)
- Run Co had us try 2.4 sec cycle time.
- <stacking rate> = 26.0mA/hr
- <production>=20.44 pbar/Mp
- <beam on target> = 8.46e12

## Transfers

- Unstacked 524e10 in 65 transfers over 24 sets
- <overall efficiency> = 96.4%

## Studies:

- Stacktail fanouts
  - Need 25 to 50mA
  - 1 hour no stacking.

## Know Issues:

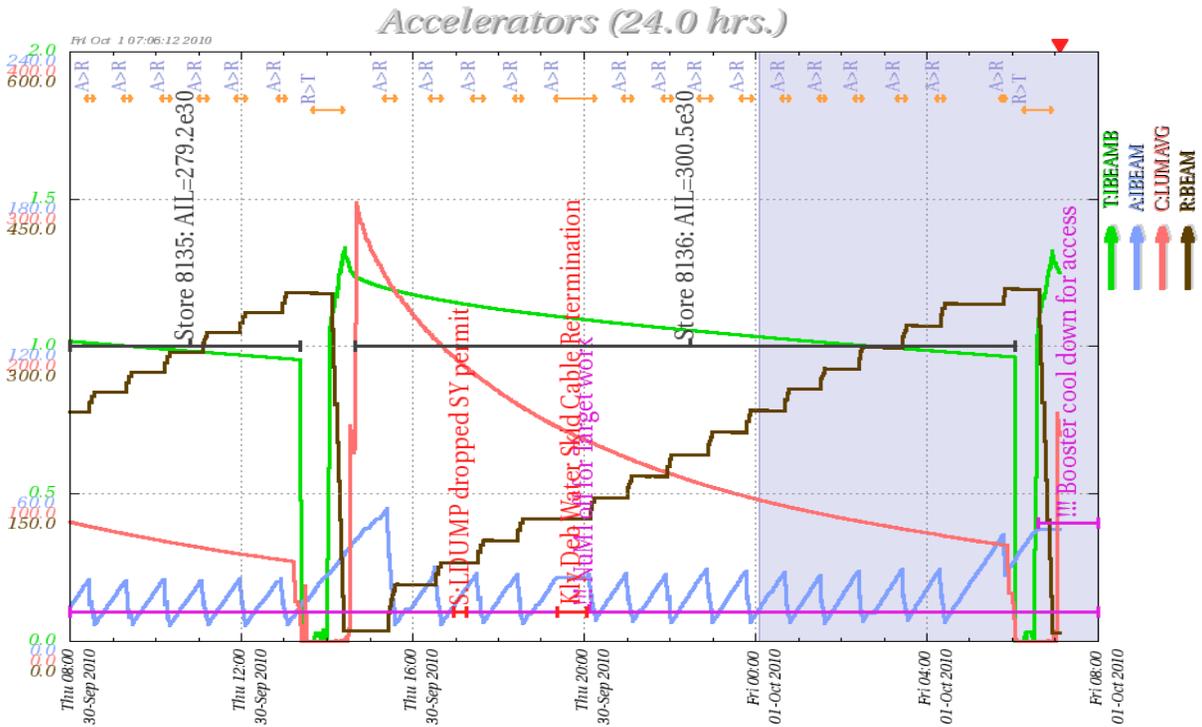
- AP1 fan
  - Box in upstream PreTarget down the stairs.
  - Can see the box from the gate, but not good enough to get the numbers.
  - Need to access to get the numbers
  - Gary Lauten needs to be involved
- Debuncher Vertical Band 4 TWT #3 is off and needs a tunnel access to fix
- Sump pump excavation (FESS)
- Dump water skid pressure changing, tiny leak
- D:LKESUM still reads 239 (wet at EQ14) after LCW leak repair.

## The Numbers

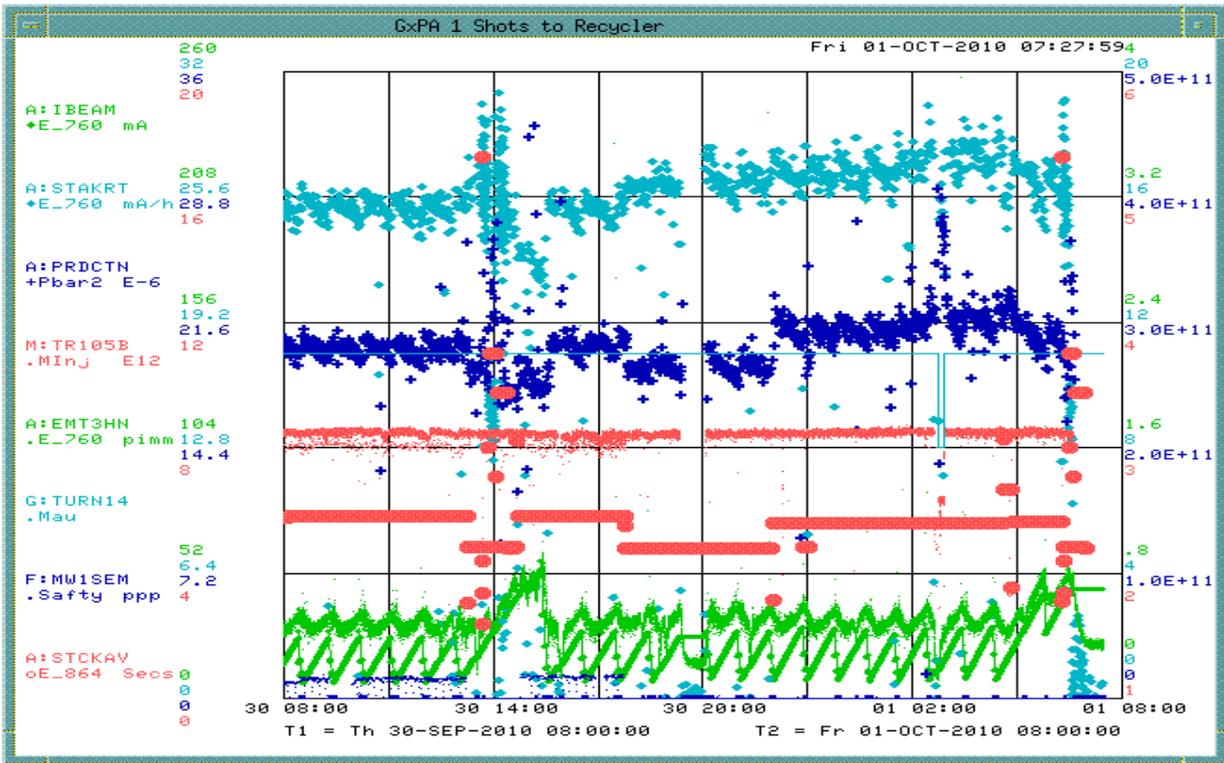
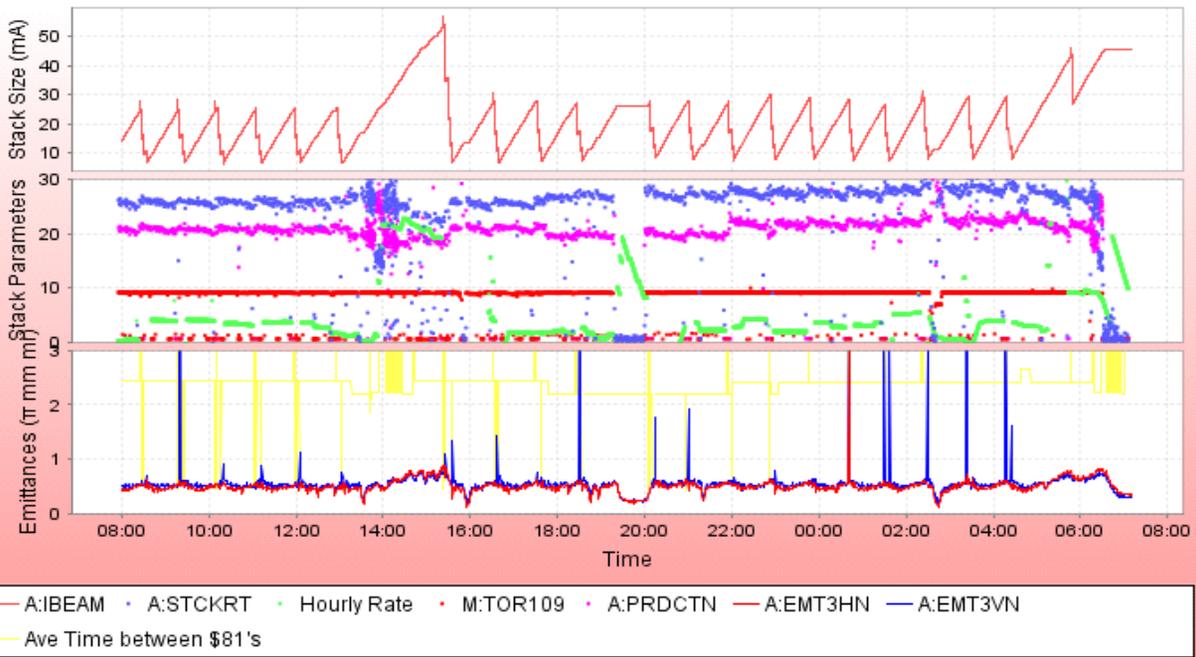
- Stacking
  - Pbars stacked: 576.32 E10
  - Time stacking: 23.21 Hr
  - Average stacking rate: 24.83 E10/Hr
- Uptime
  - Number of pulses while in stacking mode: 34615
  - Number of pulses with beam: 31946
  - Fraction of up pulses was: 92.29%
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 21.42 Hr
  - Possible average stacking rate: 26.90 E10/Hr
  - Could have stacked: 624.47 E10/Hr

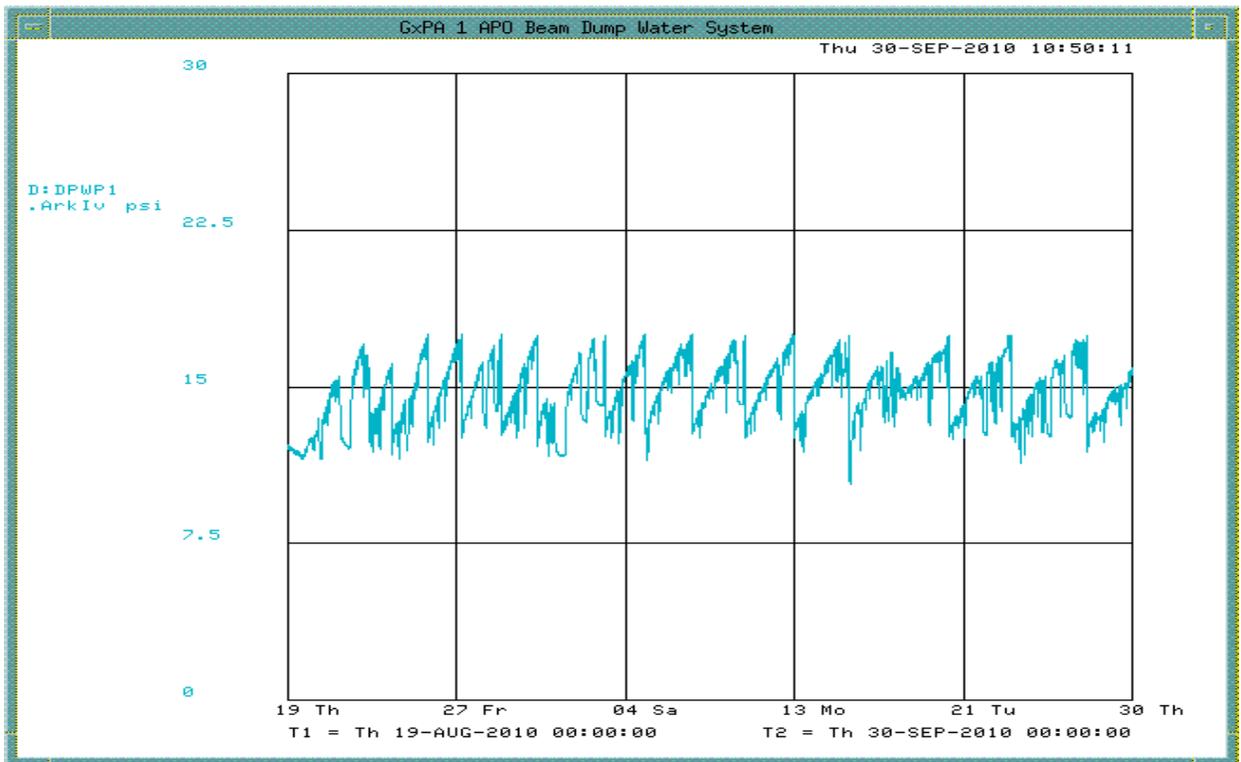
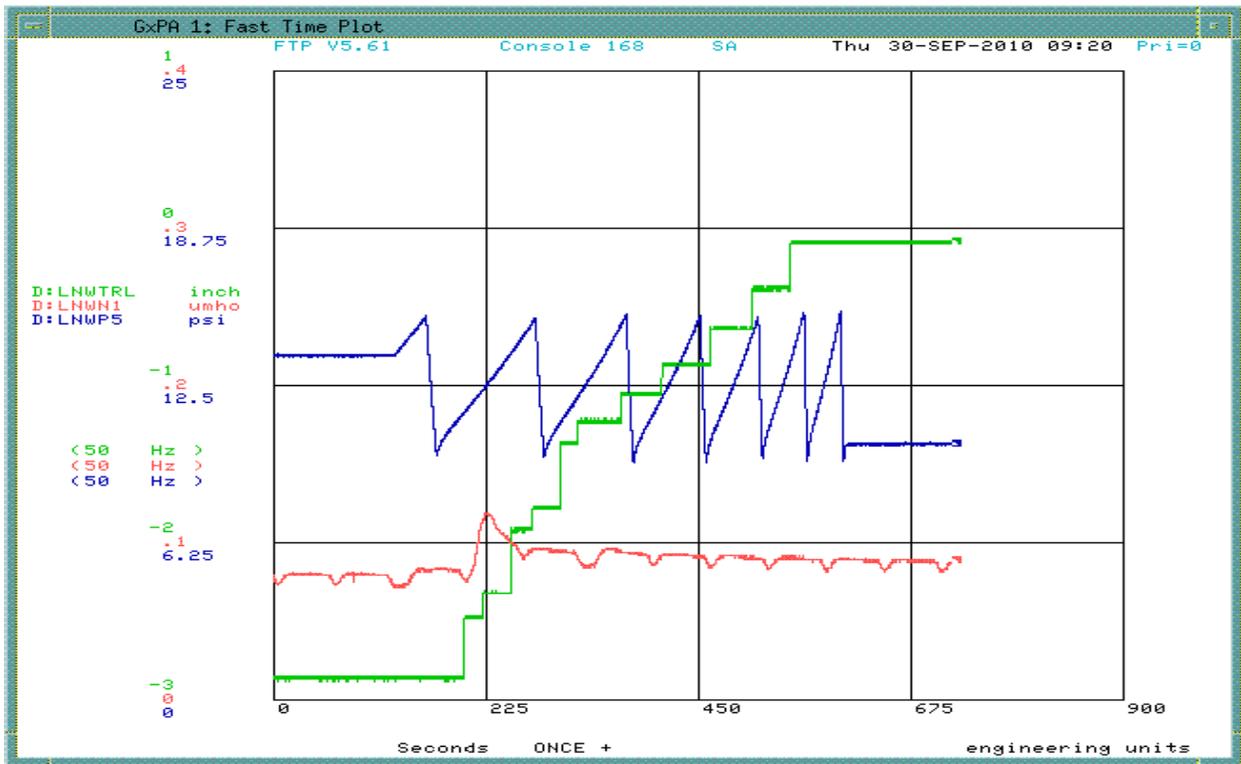
- Recycler Transfers
  - Pbars sent to the Recycler: 522.66 E10
  - Number of transfers : 65
  - Number of transfer sets: 22
  - Average Number of transfer per set: 2.95
  - Time taken to shoot including reverse proton tuneup: 00.23 Hr
  - Transfer efficiency: 96.42%
  
- Other Info
  - Average POT : 8.44 E12
  - Average production: 21.37 pbars/E6 protons
  
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The Plots



Thu Sep 30 08:00:00 CDT 2010 -- Fri Oct 01 08:00:00 CDT 2010





Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A:1 BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A:1 BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R: BEAMB (R:BEA ME0[0]) pre sfer E10	Column 24 Number _23_R: BEAMB (R:BEA ME0[1]) post sfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 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	
<b>Totals =&gt;</b>				<b>524.03</b>		<b>505.09</b>	<b>96.39%</b>	<b>97.35%</b>	<b>97.66%</b>	<b>95.07%</b>	<b>65</b>	<b>22</b>	<b>5.082</b>	<b>5.1957</b>	<b>1.9654</b>		
<b>Daily Average =&gt;</b>				<b>524.03</b>		<b>505.09</b>					<b>65</b>	<b>22</b>					
20987	Friday, October 01, 2010	5:48	43.68	26.60	17.08	342.81	358.99	16.18	94.75%	96.90%	96.00%	93.02%	3	1	7.009	6.719	1.849
20986	Friday, October 01, 2010	4:19	29.62	7.61	24.26	320.92	343.93	23.19	95.61%	96.44%	96.39%	92.96%	3	1	4.939	5.228	1.97
20985	Friday, October 01, 2010	3:25	29.42	7.90	23.72	298.86	321.57	22.87	96.40%	96.30%	95.13%	91.61%	3	1	5.202	5.241	1.947
20984	Friday, October 01, 2010	2:24	28.68	7.74	23.24	277.15	299.40	22.42	96.46%	96.95%	98.39%	95.39%	3	1	5.357	5.118	1.974
20983	Friday, October 01, 2010	1:31	26.81	7.08	21.94	256.61	277.61	21.17	96.50%	96.15%	96.43%	92.72%	3	1	4.905	5.036	1.93
20982	Friday, October 01, 2010	0:41	28.35	7.23	23.36	234.74	257.01	22.38	95.81%	96.94%	96.24%	93.29%	3	1	4.753	5.044	1.968
20981	Thursday, September 30, 2010	23:47	28.93	7.60	23.54	212.58	235.11	22.66	96.25%	97.21%	97.46%	94.74%	3	1	4.79	5.12	1.996
20980	Thursday, September 30, 2010	22:52	29.88	7.80	24.75	189.32	212.92	23.74	95.92%	96.88%	97.98%	94.92%	3	1	5.194	5.351	1.966
20979	Thursday, September 30, 2010	21:55	27.66	7.47	22.71	167.84	189.57	21.88	96.35%	97.15%	98.27%	95.46%	3	1	5.005	5.437	2.014
20978	Thursday, September 30, 2010	21:00	28.03	7.67	22.98	145.97	168.06	22.27	96.93%	97.31%	97.33%	94.71%	3	1	5.313	5.307	1.975
20977	Thursday, September 30, 2010	20:07	27.72	8.15	22.26	124.56	146.12	21.64	97.20%	98.67%	98.86%	97.55%	3	1	4.581	4.849	1.986
20976	Thursday, September 30, 2010	18:26	27.42	7.08	22.93	102.71	124.85	22.25	97.02%	99.65%	99.90%	99.54%	3	1	4.931	5.11	1.985
20975	Thursday, September 30, 2010	17:31	28.00	7.19	23.41	80.25	102.82	22.66	96.78%	98.21%	99.50%	97.71%	3	1	5.095	5.054	1.977
20974	Thursday, September 30, 2010	16:32	27.73	6.92	23.38	57.89	80.37	22.54	96.39%	98.49%	97.90%	96.41%	3	1	4.775	5.002	1.971
20973	Thursday, September 30, 2010	15:25	54.27	6.90	50.34	10.32	58.05	48.04	95.44%	96.49%	96.32%	92.94%	4	1	6.384	6.007	1.849
20972	Thursday, September 30, 2010	12:56	25.66	6.61	21.62	334.19	355.00	21.06	97.38%	98.46%	96.75%	95.27%	3	1	4.214	4.673	1.983
20971	Thursday, September 30, 2010	11:58	25.53	6.47	21.64	314.16	334.88	20.91	96.63%	96.90%	97.00%	93.99%	3	1	4.751	4.878	1.978
20970	Thursday, September 30, 2010	11:05	25.36	6.44	21.51	294.06	314.74	20.81	96.78%	97.13%	97.26%	94.46%	3	1	4.945	4.926	2.01
20969	Thursday, September 30, 2010	10:12	25.68	6.37	21.90	273.61	294.54	21.13	96.48%	97.26%	99.07%	96.35%	3	1	4.869	4.877	1.976
20968	Thursday, September 30, 2010	9:19	25.20	6.50	21.28	253.55	274.02	20.63	96.94%	98.11%	101.17%	99.25%	3	1	4.847	5.082	1.984
20967	Thursday, September 30, 2010	8:27	25.21	6.42	21.36	233.44	253.93	20.66	96.74%	96.64%	97.61%	94.33%	3	1	4.976	4.856	1.974
20966	Thursday, September 30, 2010	7:38	29.96	7.72	24.83	209.95	233.81	24.00	96.68%	98.42%	98.98%	97.41%	3	1	4.97	5.391	1.977

