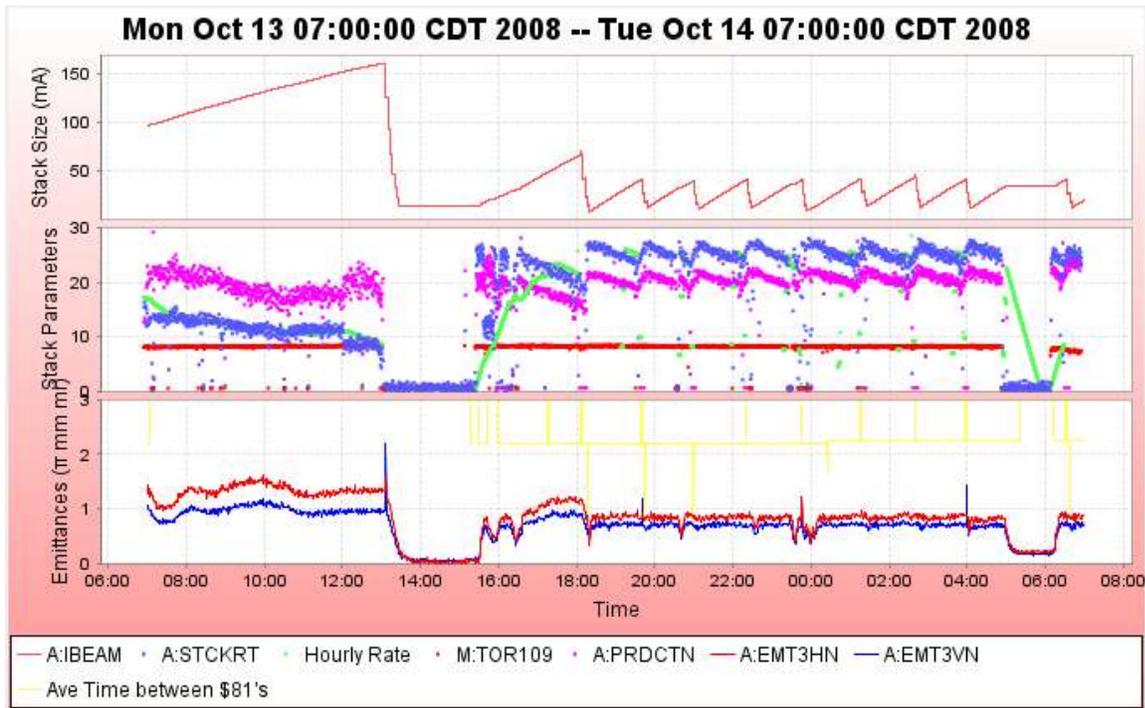


2008-10-14 Tuesday Morning Summary

Tuesday, October 14, 2008
7:17 AM

Stacking

- Performance Numbers
 - Best Stacking hour: 25.35 mA at Mon Oct 13 19:19:51 CDT 2008
 - Average Production: 18.37 e-6/proton
 - Average Protons on Target: 7.58 E12
 - Large Stack: 160.75 mA
- 13:39: A:IKIK Tripped off
 - Dead 80KV supply for modules #2 and #3 (<http://www-bd.fnal.gov/cgi-mcr/eelog.pl?nb=2008&action=view&page=778&anchor=133954&hilite=13:39:54->).
 - Also see [http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=434&scroll=false&load=.](http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=434&scroll=false&load=)
 - Supply was changed with a 100KV spare.
 - Be careful:
 - Scale factor difference. Being changed in the database.
 - No overvoltage protection.
 - Set to alarm when in local, note in MCR elog, note in the hot item book, and a sign posted at the supply (<http://www-bd.fnal.gov/cgi-mcr/eelog.pl?nb=2008&action=view&page=778&anchor=155338&hilite=15:53:38->).
- 23:38: Single trip of ARF1-2 on ENI not ok. Will watch this.
- CUB Pbar cooling water pressure alarm.
 - D:CW**
 - Not Pbar 95, Not Chilled Water, and FESS says the numbers are not correct for tower water.
 - We should not worry about these for now.



Transfers

- We unstacked 462mA in 35 transfers over 10 sets.
- ACC -> MI efficiency was ~97%.
- ACC -> RR efficiency was ~93%
 - This is down a bit, mostly due to the set of transfers from the 160mA stack.
 - Might still be down a percent or so on the other transfers.
 - Will work on this today.

Column 1 Number _0_Pbar	Column 4 Number_3_Transfer Time	Column 21 Number _20_A:IB	Column 22 Number _21_A:IB	Unstacked (mA)	Column 23 Number _22_R:BE	Column 24 Number _23_R:BE	Stashed	Acc to RR Eff	Column 27 Number _26_MI_DCCT	Column 28 Number _27_MI_Befor	Acc to MI Eff	Acc to MI2 Eff	Transfers	Sets	
Totals =>		7:00:00 AM		462.78			429.57	92.82%	448.13	446.43	96.84%	96.47%	35	10	
9567	Tuesday, October 14, 2008	6:33:51 AM	41.51	12.11	31.91	266.31	296.22	30.19	94.62%	31.16	31.11	97.66%	97.51%	3	1
9566	Tuesday, October 14, 2008	3:58:58 AM	41.51	11.73	32.08	237.55	267.52	30.11	93.86%	31.25	31.26	97.43%	97.45%	3	1
9565	Tuesday, October 14, 2008	2:40:36 AM	43.46	12.67	33.52	206.89	238.18	31.48	93.91%	32.67	32.41	97.46%	96.69%	3	1
9564	Tuesday, October 14, 2008	1:17:45 AM	41.90	13.08	31.38	178.00	207.37	29.52	94.05%	30.23	30.28	96.32%	96.50%	3	1
9563	Monday, October 13, 2008	11:46:03 PM	40.38	9.10	32.70	147.58	178.41	30.94	94.62%	31.82	31.46	97.31%	96.21%	3	1
9562	Monday, October 13, 2008	10:21:24 PM	40.73	11.86	31.32	118.45	147.93	29.53	94.28%	30.36	30.43	96.91%	97.16%	3	1
9561	Monday, October 13, 2008	9:00:25 PM	39.86	10.55	31.70	88.77	118.72	29.97	94.55%	30.69	30.57	96.81%	96.44%	3	1
9560	Monday, October 13, 2008	7:40:55 PM	41.20	11.76	31.89	58.94	88.96	30.11	94.43%	30.71	30.52	96.30%	95.72%	3	1
9559	Monday, October 13, 2008	6:08:39 PM	66.13	7.81	61.29	3.22	59.17	56.41	92.03%	58.25	59.03	96.67%	96.30%	4	1
9558	Monday, October 13, 2008	1:06:01 PM	159.32	14.32	145.00	34.33	164.57	131.32	90.57%	140.01	139.35	96.56%	96.11%	7	1

Studies

- Core vertical transfer function measurements (<http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=433&scroll=false&load=>)
 - A new equalizer was installed for these systems over the shutdown.
 - It was found that each band was too short by a full wavelength.
 - There was enough room in the band 2 and 3 trombones to compensate.
 - There is not enough room in the band 1 trombone to compensate. Cable will have to be added. This may require a tunnel access. Experts will discuss the details and come up with a plan.

Requests

- A:QDF - Since this supply came back 0.45A different after the shutdown, experts suspect a problem with the DAQ that is internal to the supply.
 - Vander: Wants to:
 - Transfer everything out.
 - Do a crate save
 - Turn off A:QDF
 - Replace the 184 card
 - Do a crate restore
 - Cycle busses.
 - Total time less than 30 minutes
 - Experts available this morning or tomorrow.
 - Obie option: If that doesn't work, we may want to replace the DAQ inside the supply.
- May have more cooling measurements when experts.
- T972 (JASMIN - Japanese-American Study of Muon Interactions and Neutron detection) requests will be made by Tony Leveling.

The Numbers

- Paul's Numbers
 - Most in an hour: 25.35 mA at Mon Oct 13 19:19:51 CDT 2008
 - Best: 27.01 mA on 03-Jun-08
 - Average Production 18.37 e-6/proton Best: 25.41 e-6/proton on 01/30/2008
 - Average Protons on Target 7.43 e12 Best: 8.77 e12 on 07/24/2007
 - Largest Stack 160.75 mA Best: 313.58 mA on 02/18/2008
- Al's Numbers
 - Stacking
 - Pbars stacked: 386.73 E10
 - Time stacking: 21.15 Hr
 - Average stacking rate: 18.29 E10/Hr
 - Uptime
 - Number of pulses while in stacking mode: 27990
 - Number of pulses with beam: 26339
 - Fraction of up pulses was: 94.10%
 - The uptime's effect on the stacking numbers
 - Corrected time stacking: 19.90 Hr
 - Possible average stacking rate: 19.43 E10/Hr
 - Could have stacked: 410.97 E10/Hr
 - Recycler Transfers
 - Pbars sent to the Recycler: 462.78 E10
 - Number of transfers : 35
 - Number of transfer sets: 10
 - Average Number of transfer per set: 3.50
 - Time taken to shoot including reverse proton tuneup: 00.16 Hr

- Time taken to shoot including reverse proton tuneup: 00.16 Hr
 - Transfer efficiency: 93.88%
- Other Info
 - Average POT : 7.58 E12
 - Average production: 19.36 pbars/E6 protons
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