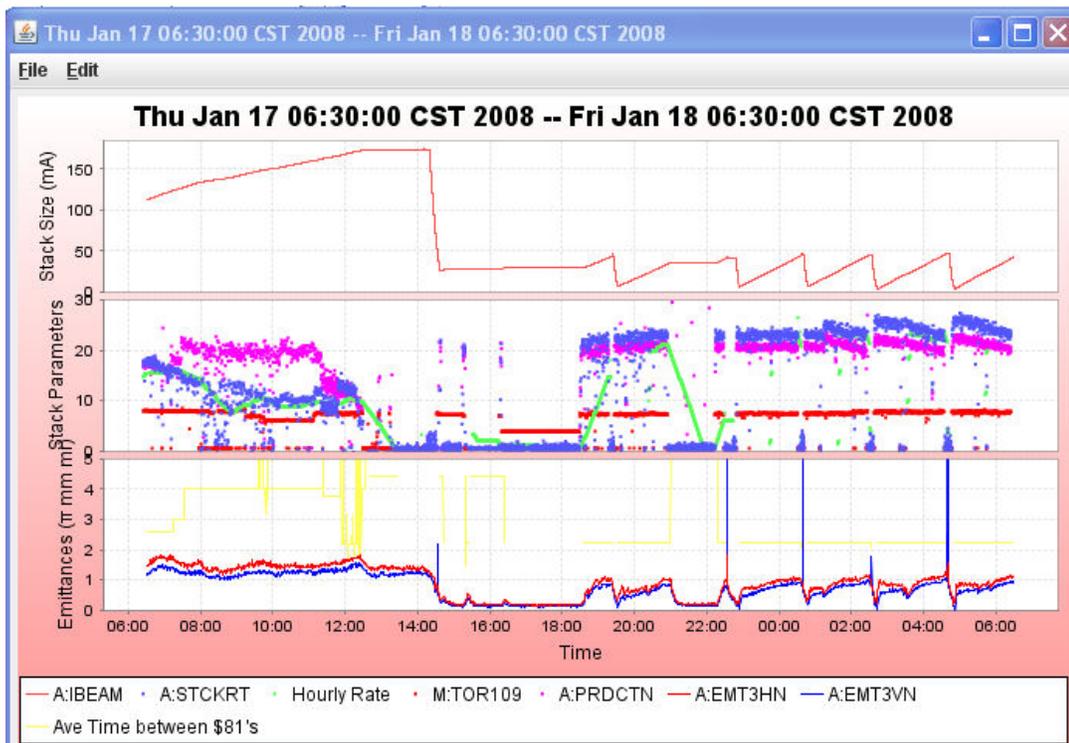


2008-01-18 Friday Morning Pbar Summary

Thursday, January 17, 2008
9:12 PM

- Stacking Summary
 - Stacked up to 173mA on the day shift awaiting HEP shot setup so that we could unload pbars to the Recycler again.
 - Successfully ran "The Flusher" and saw no instabilities with the large stack.
 - After transferring our large stack we went into a four hour period of Debuncher Momentum Cooling measurements starting at about 14:40. Experts now have lots of data to crunch. We will talk more about that during the weekly summary.
 - Resumed normal iterations of stack and transfer for the evening and owl shifts.
 - Evening shift M:Q105V tripped on phase imbalance. Obie came in and replaced SCR firing card.
 - Stacking was slow to recover, but operators worked hard tuning back up overnight.
 - For the evening shift we ran 10 turns with only about $6.8e12$ on target with slip stacking efficiency only about 85%.
 - On the owl shift we were up to 11 turns with $7.2e12$ on target and slip stacking efficiency poor at around 81%.
 - It also took some time to get Pbar tuned back up for the smaller stacks, with the last two stacking iterations looking more normal.
 - We stacked only 268mA over 24 hours.
 - Most in an hour: 23.91 mA at Fri Jan 18 05:52:36 CST 2008, but there were two legitimate runs at 25 overnight that were thwarted by lost pulses due to upstream machine downtime.
 - The average Production number was brought down somewhat due to our extended large stack. Our last few stacking iterations had fairly normal production ranges of 18-22 e-6/proton.
 - At around 7:30am, we lost the Pbar stack on A:IB ground fault indication.
- Transfers Summary
 - Pbars sent to the Recycler: 341.22 E10
 - Number of transfers : 24
 - Number of transfer sets: 6
 - The Pbar turn by turn did not function correctly for shots 6915 and 6916. It was found that the AP50 house BPMs were out to lunch. Once the VXI was cycled (from P57 <1> acc50 parameter A:B5POWR), the system resumed operation.
 - The Recycler shot scrapbook is still missing values of I:BEAMS in the summary tables.
- Studies Requests:
 - None at this time.



	A	B	C	D	E	F	G	H	I	J	K
1	Transfer	Stack Initial	Stack Final	Unstacked	Stash Initial	Stash Final	Stashed	%	Transfers	Sets	
2	6913	172.59	26.59	146	22.01	153.23	131.22	0.898767	7	1	
3	6914	43.79	7.39	36.4	151.23	185.83	34.6	0.950549	3	2	
4	6915	41.59	6.79	34.8	183.98	218.52	34.54	0.992529	3	3	
5	6916	44.19	6.99	37.2	216.76	253.03	36.27	0.975	3	4	0:51
6	6917	45.19	2.99	42.2	249.37	290.79	41.42	0.981517	4	5	
7	6918	46.79	3.99	42.8	285.5	327.17	41.67	0.973598	4	6	
8				0			0	#DIV/0!		7	
9				0			0	#DIV/0!		8	
10				0			0	#DIV/0!		9	
11				0			0	#DIV/0!		10	
12	sum	394.14	54.74	339.4	1108.85	1428.57	319.72	0.942015	24		

- Paul's Numbers
 - Most in an hour: 23.91 mA at Fri Jan 18 05:52:36 CST 2008
 - Best: 24.69 mA on 09-Jan-08
 - Average Production 16.66 e-6/proton Best: 23.53 e-6/proton on 11/11/2007
 - Average Protons on Target 6.33 e12 Best: 8.77 e12 on 07/24/2007
 - Largest Stack 173.30 mA Best: 271.01 mA on 11/14/2007
- AI's Numbers: 24 hour 6:30am to 6:30am.
 - Stacking
 - Pbars stacked: 268.36 E10
 - Time stacking: 16.70 Hr
 - Average stacking rate: 16.07 E10/Hr
 - Uptime
 - Number of pulses while in stacking mode: 23069
 - Number of pulses with beam: 20747
 - Fraction of up pulses was: 89.93%
 - The uptime's effect on the stacking numbers
 - Corrected time stacking: 15.02 Hr
 - Possible average stacking rate: 17.87 E10/Hr
 - Recycler Transfers
 - Pbars sent to the Recycler: 341.22 E10
 - Number of transfers : 24

- Number of transfer sets: 6
 - Average Number of transfer per set: 4.00
 - Time taken to shoot: 02.23 Hr
 - Time per set of transfers: 22.31 min
 - Transfer efficiency: 95.67%
- Other Info
 - Average POT : 6.87 E12
 - Average production: 18.83 pbars/E6 protons
- Studies Results
- Other Notes
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