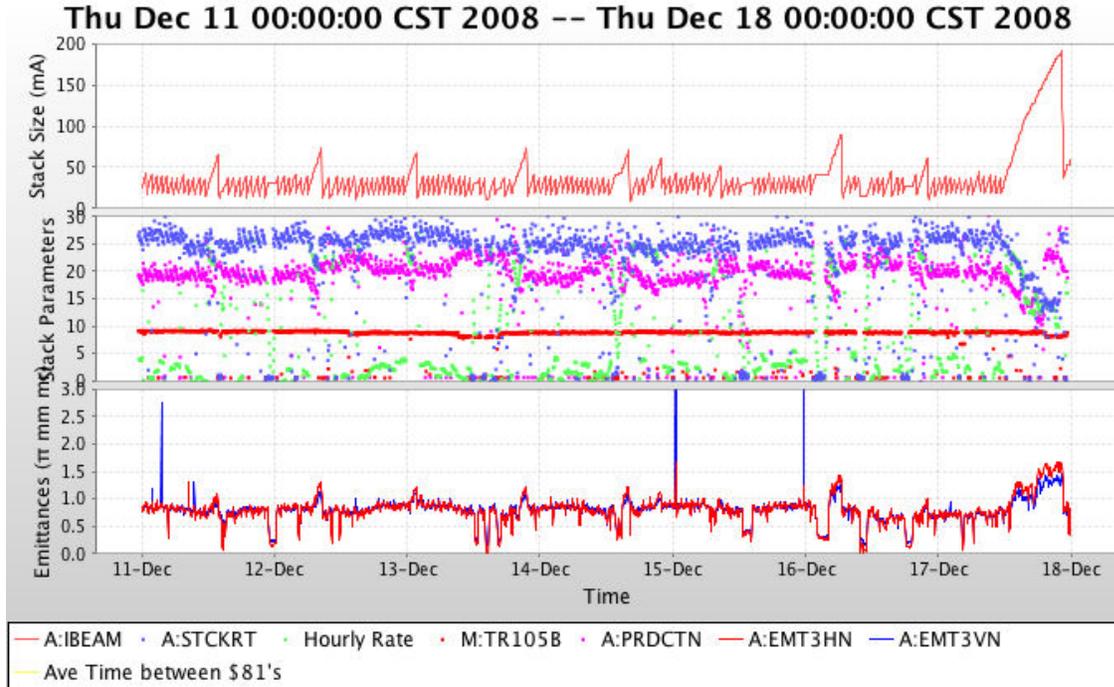


2008-12-18 Pbar Department Meeting

Thursday, December 18, 2008
9:57 AM

- Pbar Performance



Pasted from <<http://www-bdnew.fnal.gov/pbar/organizationalchart/derwent/stacking/weekly.png>>

- Big stack overnight.
- Number of Pbars in a week, record! Over 3500mA in one week! Averaging 500mA per day!
- Weekly stacking rate. Was about 23mA/hr. (with Jim Morgan corrections are about 24mA/hr)
- Yearly production. 130000e10 for 2008
- Moved to a new target disk...2nd
- NuMI came on, didn't see much drop in beam on target (longer dwell time)
- Transfers
 - Energy - some changes
 - Efficiency - efficiency down, tuned up cooling, emittances better, but efficiencies still down. Do we need to calibrate our DCCT?
- Frequency width (showed plot of rdwidth 0-32, cenfrq 890 to 906).
 - Frequency width over 24 days.
 - Friday dec 5th, width down, stacking better
 - Sunday width back up, back to normal
- A:IKIK
 - 52KV
 - Had a bid sneeze on Saturday, and a few small one.
 - Want to stay here over the holidays.
- Debuncher phasing
 - Finished the checkout of all Debuncher systems.
 - There was one fan in the momentum cooling that was 2 wavelengths off.
 - A couple of kicker trombones that were way
 - Found one bad TWT that was fixed.
 - After finished stacking worse at first.
 - After trunk trombone tuning, better.

- Good to do this every 6 months.
- Bands 3 and 4 horizontal, upper and lower sidebands split far. A mystery. May want more narrowband measurements to help out.
- Accumulator phasing
 - Were all done relatively recently....in the last few months...stacktail measurements.
 - But have not looked at all kicker legs and fan-ins. Would be a good idea.
 - Core cooling has been checked recently.
 - Next, do stacktail fan-ins and fan-outs. Have to have a small amount of beam parked. Interrupts stacking. Is there too much beam to do this with our 140mA stack today?
- Debuncher tune scan
 - <http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=537&load=>
- Valeri
 - Reduction of gain in high frequencies for stacktail may be some gains.
 - Party will be in January!
- APO work today during Booster/MI access day.
 - TLG rebooted at 1:15.

Pbar				
ID	Requestor	Title	Location	Type
9245	Leveling, Anthony	Transformer flow meter R&R The transformer return water flow meter has failed. Remove and replace flow meter. Plan for 1 hour of radiation and thermal cooling time and 1 hour to replace flow meter.	APO Water cage	Target Station
9336	Leveling, Anthony	Water level detector Install level detector on collection lens reservoir tank.	APO Water cage	Target Station
9358	Leveling, Anthony	Interlock card repair About 18 of the interlock cards used for monitoring parameters/interrupting beam to the target station have potentially bad capacitors which allow ripple to occur in the reference voltage circuit. Replace 2 capacitors per card as naturally occurring downtime permits. The time required per card for repair and resetting alarm limits is about 10 minutes	APO service building	Target Station
9386	Leveling, Anthony	Water leak investigation The pulsed magnet/collimator water system has uncharacteristically begun to loose water since replacing hoses during the October '08 shutdown. Remove 3 shielding blocks and check for a water leak in the lower vault.	APO lower vault	Target Station
9389	Leveling, Anthony	Sweeping system software New software has been prepared to fix a problem with the sweeping systems. Load new software, and check performance. Revert to previous version if new version causes trouble.	APO service building	Target Station
9397	Leveling, Anthony	BSC700 limit switch status The AP2 beam stop status is giving wrong readback. A beam stop controller crate board burned up during the November power failure and was replaced with another board. Status has been incorrect since the power outage. Open controller crate and investigate/repair bad status circuit. Work on the controller crate should have no impact on Accumulator stack.	APO service building	Target Station
8891	Wisner, Bernard	Coll Lens PS, Bias PS Interlock Summer 2008 Shutdown: The Collection Lens, Bias power supply Interlock, is currently disabled. The jumper on the Interlock pc card, needs to be removed, and the Interlock circuitry needs to be checked out.	APO	Power Supply
9368	Wisner, Bernard	Replace DLNV fuse holders. The two 15A fuse holders, in the auxiliary disconnect box, needs to be replaced with a more reliable fuse holder. The connections on the fuse holders, may be overheating, and causing power supply failures.	APO	Power Supply