

2009-10-01 Thursday Pbar Notes

Thursday, October 01, 2009
5:49 AM

Stacking

Transfers

Problems

- Known Problems
 - ARF4 devices not plotting correctly during transfers. This appeared to be fixed, but was seen a few times in the last couple of days.
 - AP2 portion of the overthruster is not working due to bad BPM signal for BPM703. BPM703 is a vertical BPM that shows a position of 88mm (see P202 <33> and half the expected intensity! One of the BPM plate signals is broken in the tunnel. To make matters worse, BPM702, which in reality is a horizontal BPM, is listed as a vertical BPM in the overthruster and the beam orbit programs. With 702 and 703 masked, the 8 GeV portion of the overthruster still does not work.
- Downtime/Maintenance
 - Tony Leveling
 - Brief interruption in stacking to look at lens LCW auto-fill problem.
 - Controls
 - Replace the existing C190 card for PBAR MADDC #16 (PBAR \$33 slot 1) with a C290 (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10678)
 - Water Cage Access
 - Isolate the water cooled target water circuit to reduce radiation levels in and around the AP0 water cage. One hour of radiation cooling time and less than 1/2 hour are required to complete this job. We will want to put the lines in dry layup when some longer access opportunity presents itself. (http://www-ad.fnal.gov/cgi-worklist/worklist_form.pl?id=10721)
 - Replace collection lens conductivity meters. Meter outputs are dropping out low periodically and with increasing frequency. This is electrical work; no RAW system work is required. - 4 hours (http://www-ad.fnal.gov/cgi-worklist/worklist_form.pl?id=10720)
 - Test collection lens makeup water circuit. Determine cause of low lens supply/return flow. Requires 1 hour of cool down time and up to 4 hours to make a system modification. - 5 hours (http://www-ad.fnal.gov/cgi-worklist/worklist_form.pl?id=10719)
 - Pbar Rings Accesses
 - DRF1-3 final amp tube replacement (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10678)
 - D:IP713 is shorted in the tunnel (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10664)
 - A:MS5H1V will not move, diagnose problem (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10646)
 - Pull new calbe for D:IP403 (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10710).
 - Investigate D:FAN60C (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10725).
 - Pbar Transport Access
 - Diagnose broken BPM "A" plate signal for AP2 line BPM D:BPM703 (http://www-bd.fnal.gov/cgi-worklist/worklist_form.pl?id=10716).
- Studies
 - 4-8GHz tune-up
 - DVM would like to tune-up the 4-8GHz momentum
 - Full check-out of all cooling systems
 - Need stacking pulses available
 - Very destructive to stacking
 - At least two shifts. Can be broken into two or four hour chunks.
 - Maybe we can wait to line this up with other downtime.

Plots



