

2009-08-27 Pbar Department Meeting

Thursday, August 27, 2009
9:58 AM

- a
- Status
 - Power supplies
 - AP1 - Saturday have crews run aggregate.
 - AP2/AP3 - ok
 - Rings - ok
 - Working on D:QF
 - Target Station
 - Target
 - Lens - lens pulsed to 200V, 5 sec rep rate
 - Pmag - has been pulsed for one day.
 - Blocks
 - JASMIN has one foil pack to put in.
 - Looking at putting blocks in tomorrow. - will be ready tomorrow afternoon.
 - RF Systems
 - DRF1,2,3 - one and two are healthy
 - ARF1,2,3,4 -
 - Arf3 - amps are on,
 - Arf4 ran up to full voltage
 - Pulsed Devices
 - Kickers (AIKIK) - still on two supplies
 - Septa (DISEP) - looks fine....
 - A50 vacuum a little worse than want...
 - Cooling
 - LHe, LN2 - still talking September 2nd. Though four houses plugged with contamination.
 - List for phasing -
 - 4-8GHz tanks
 - Need to make a list
 - Couple stacktail...
 - NA program
 - Some problems connected to switch tree at first, but ok now.
 - P35 was ok when went to it the first time....so this is better.
 - Diagnostics
 - Dampers, BPMs, SEMs, Schottkys, DCCTs, Ion Gauges
 - Looking at ACC BPMs, found three bad channels...all in are in the tunnel. 106, 501, 514
 - Deb BPMs? For reverse protons, Kluge to pulse adiabatics to get 53MHz? Bunch with DRF3?
 - Dampers - lights were on.
 - Emittance monitors
 - Oscillators need to be checked?
 - Clearing electrodes -
 - Seq. Aggregates
 - DVM redid the reverse proton aggregate
 - One shot TLG
 - Stan still has to make the timeline...
- Startup
 - After MI can circulate beam
 - Reverse protons to Accumulator - couple hours
 - ACC orbit, tunes, admittance
 - DEB orbit, tunes, admittance

- May move new tanks around if we have a small aperture.
- After MI can accelerate beam
 - Protons to target
 - Beam to Debuncher
 - Check RF
 - If cold, cursory check of cooling
 - Beam to Accumulator
 - Stack
 - Check of 4-8GHz Core
 - Transfer
- After stable operation
 - Full check of all cooling systems

September 2009: Startup						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
MIPS/Turn on	31 Beam from MRR Startup	1	2 MRR access for Magnet moves	3 Recycler Proton mode	4	5
Ecool mode	RevProt. To ACC Establish beam to MiniBoone			Pbar stacking Phase in cooling systems NuMI Low Intensity runs/target scan	Recycler In Pbar Mode ?First Pbars to RR?	
6	7 Labor Day	8 Tew Cold TewPS testing CDF/DX out of tunnel	9	10 -Establish Tew Proton Beam (1 shift) -Smooth up the Ramp(2 shifts) "NORMAL" NuMI running	11 -Lattice Function measurements (1 shift) -Adjust tunes/Ce/Chrom up the ramp (2 shifts) Pbars Stashing (normal RRACC ops)	12 -Paras Squeeze (1 shift) -Implement any lattice changes (1 shift) -Lifetime Measurements (1 shift)
NuMI Low intensity runs/target scan		NuMI Low intensity runs/target scan Recycler In Pbar Mode	Configure for "NORMAL" NuMI running			
13 -Pbar only store for helix closure (1 shift) -Beam Based Alignment (1 shift) -1300 including scraps final checkout (1 shift).	14 Collider operations	15	16	17	18	19
						

Steve will be doing phasing

September 2009: Startup						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
MIPS/Turn on Ecool mode	31 Beam from MI/RR Startup RevProt. To ACC Establish beam to MiniBoone	1	2 MI/RR access for Magnet moves Deb Cold?	3 Recycler Proton mode Pbar stacking Phase in cooling systems NuMI Low intensity runs/target scan	4 1st pass at cooling Recycler In Pbar Mode ? First Pbars to RR?	5
6 NuMI Low intensity runs/target scan	7 Labor Day	8 Tow Cold TowPS leveling CDF/DC out of tunnel NuMI Low intensity runs/target scan Recycler In Pbar Mode	9 Serious stacking not possible until have proton intensity & normal NUMI Configure for "NORMAL" NuMI running	10 "NORMAL" NuMI running	11 tunes/Ce/Chrom up the ramp (2 shifts) Pbars Stashing (normal RR/ACC)	12 +Parse Squeeze (1 shift) +Implement any lattice changes (1 shift) +Lifetime Measurements (1 shift)
13 +Pbar only store for helix closure (1 shift) +Beam Based Alignment (1 shift) +13W0 including scraps final checkout (1 shift).	14 Collider operations	15	16	17	18	19

NuMi has low intensity - 23s 29s.....don't know how much beam on target?

First pass - just make sure can cool....