

Notes from MI/RR Meeting - 12 Feb 2003 by Bruce Brown Notes on 17 Feb 2003

Recycler Status and Plans

Cons Gattuso reported on progress during the maintenance day (today, 12 Feb). The berings (external) on the vertical flying wire were repaired. Beam time will be needed to commission the Flying Wire and the Schottke detectors. Maintenance was done to some vacuum pumps (zapping to remove leakage paths). Some faulty heater strips are known and repairs are possible on many. Cons has decided that the existing list of broken BPM's (in the Recycler Fix list) should be 're-initialized' to reflect the extensive work done during the January 2003 long shutdown. A new turn-on aggregate has been developed and tried. Still are battling vacuum problems including flying wire areas ($1E-7$ in V), ($1E-8$ in H). Some of these may be readout problems but some are real.

Martin Hu reported on the progress of studies. The Vertical acceptance is ~ 1 mm smaller so we will do aperture scans to try to better center the beam. Plan to man shifts during the day and evening for the near future. Timing issues include a 4 bucket shift in beam location for Pbars to MI. Need to check timing of R22 transfer line BPM's. The Main Injector Flying Wires are using new scintillation paddles which need further check-out. Dave Johnson asked if there were known cabling changes which could account for timing changes (Answer not known).

Chandra Bhat -- RR pbar Longitudinal Emittance during Beam stacking and Unstacking

Analysis was reported of studies of the Recycler Longitudinal Emittance during various manipulations. The data was recorded using the Resistive Wall Monitor (wall current monitor) and the RTD720 Scope using the R86 Console Application Program. His presentation is available as Beams-doc-435-v1 [RR pbar Longitudinal Emittance during Beam stacking and Unstacking](#).

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