

Minutes, 3/14/05 Tevatron BPM Upgrade Meeting
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The agenda as announced consisted of:

- Installation of D3 and E3: how did it go?
- Data from D3 and E3
- Installation of F2 and B0: week of March 14.
- AOB, including installation idea sent along by Bob Forster

1. D3 and E3 installation

- Marv reports that the D3 and E3 installation went smoothly, especially the hardware installation portion. He does request that the Optilogic boxes be made functional as soon as the installation is complete so that they can be used to read out as well as control the crates. Brian is going to look into that and see how it might be implemented.

2. D3 and E3 performance

- Mike Martens showed some plots and described a couple of problems that he has seen. Rob Kutschke also reported on some of the same issues in email over the weekend. Mike did report that the BPM's did pass the one-bump diagnostics at the beginnings of stores.

- First the serious one. The first turn and first turn closed orbit are sometimes showing some pretty serious discrepancies due to the "outlier" measurements that have been seen in these systems. The outliers are way out (mm's) and affect the measurements significantly. These need to be fixed (or corrected) before we go very much further in installing systems as they will affect the closure of orbits.

- We discussed many possible options for debugging or solving the problems. Suffice it to say that this should be the highest priority task for people to investigate. We decided to put a hold on installation until we make some progress. The next 4 installs (F2, B0, D0, A2) are all either used in closure or are otherwise not the best candidates to install while we have this trouble. We should proceed in making the crates available so that we can quickly catch up and still get 2 crates in this week (assuming we make progress soon). If we can't

make progress for some reason we should think about getting B2 and C2 ready for installation.

- Mike also showed some trouble seen in SDA and T117 and T39. Sometimes people see only the new BPMs, sometimes the old, sometimes all but D2. Marv reported that D2 is having some problems (D2 is still an old system) and that may or may not explain the problems that the applications are having seeing the data. Brian and others will investigate further and presumably Marv will fix the hardware.

- Rob Kutschke reported that he has looked at D3 and E3 and they look OK for antiproton cancellation. Some of the channels aren't timed in yet.

3. Installation plans

- As mentioned above we will put a hold on installation until we make progress on some understanding of the "outlier" measurements.

4. AOB

- A proposal by Marv/Bob/Tim to pre-stage crates in the service buildings was discussed. There is no pressure to do this right now and people have just seen the proposal. For on-hour weekday installs this probably doesn't give a big advantage. Once we start considering off-hour or weekend installations this may indeed be a big advantage. There is some worry about leaving crates in the service buildings uninstalled and unattended.

- Vince reported that the terminator boards are not yet here yet. They should arrive on Tuesday, will get stuffed, and some schedule for installation will be developed.

- We will have a project meeting on Wednesday the 16th at 11:00 and a special meeting to discuss calibrations on Thursday the 17th at 1:30 P.M., both in the Penthouse.