

Minutes, 3/17/04 Tevatron BPM Upgrade Meeting
Stephen Wolbers

This set of minutes, and all future minutes, are or will be deposited in the Beams Document Database as document number 792.

The agenda as announced consisted of:

1. Report from Steve and Bob.
2. Reports from L2 managers.
3. AOB.

1. Report from Bob and Steve.

- Bob was unable to attend due to the operations review.

- A Ferminews article about the luminosity upgrade projects is being written. The Tev BPM project is included as a small section so look for that.

- The EchoTek requisition has been placed. The Oracle alert went to Steve Monday night at 8:00 P.M. (and was duly passed on to Bakul for tracking). The dates in the PO include June 18, 2004 for the first 4 evaluation units. This date may or may not be correct -- Mark Bowden will talk to EchoTek soon to firm up some of the dates and to get a complete and accurate list of the differences of the modified boards compared to the Recycler EchoTek boards. A small team with a list of things to check needs to be formed well before the first 4 boards arrive so that a quick decision can be made whether further mods are needed or whether the boards are ready for full production.

- The 15 Hz logging of the EchoTek prototype has been turned off due to the load that it puts on the controls system. We will discuss what we need for our studies and what possible logging options are available to come up with a plan for logging after the shutdown. Rob K. would like fast logging during the beginning of stores and much slower logging once the store is stable. That sort of logging may or may not be easy to implement on a consistent basis. Mike Martens will investigate what our options are. (Update after the meeting: the logging can be re-enabled when the beam returns next week. We are asked to disable the high logging rate when we no longer need it.)

- The damper board is still in A1 connected to a BPM. Can we remove it? There may be some small measurements left but it might be that we are finished with the board and are pretty much relying on the

EchoTek from now on.

2. Reports from L2 Managers

Vince Pavlicek:

- Vince's group is working on the details of the hardware design, including the crate layout. The current status of this work will be discussed on the Thursday March 18 meeting at 1:30 P.M. in the Penthouse.

- One of the questions is whether to use sma or smb connectors. From all the discussions up to now it looks like smb is acceptable.

Rob Kutschke:

- Rob has updated and inserted doc 1076 into the doc DB. It concerns the analysis of the proton scan of the BPMs. He will talk about it on Thursday at the 1:30 meeting (after the crate discussion, probably). There are some effects which are still not understood.

- We discussed the need for a new scan. Possibilities include a pbar only scan (not a likely thing to happen) and a 7x7 scan to allow for more information for the correction.

Luciano Piccoli:

- TCLK is working now over at FCC.

- The crate controllers are arriving.

- The front-end software design document is being written.

Brian Hendricks:

- Brian has Mike and Margaret's comments to the first draft of the online software specification document. He will update the doc to v2 soon, Thursday or Friday.

Mike Martens:

- Mike will look at Rob's analysis of the proton aperture scan data.

- Mike will be involved in Tev startup next week.

Technical Coordinator: Jim Steimel

- Jim reported on the work that the Service Building Team is doing. The team consists of Ken Treptow (lead), Stew Bledsoe, Marv Olson and Bakul Banerjee. They are finding some interesting information about the buildings, especially with respect to the cables. The old MR and the Tev cables come to different racks and the way that they are fed into those racks make it a non-trivial problem to get them all to one place -- the location of the new Tev BPM VME crates. Up to Wednesday morning they had gone through A2, A3, A0, A1, B1, B2, B3, at least. This work will likely be finished by the end of the shutdown.

- Jim is working on the commissioning plan and will likely present it Monday the 22nd.

- Jim mentioned that the C0 interaction region will have many new BPMs that will need to be instrumented. (I wrote down 16 new BPMs). The question was how many BPMs can be instrumented in a single crate with our current crate design. The answer is 16 (8 EchoTek cards max per crate). (The C0 IR region design report is AD doc #1001.)

3. AOB.