Minutes, 5/19/04 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 Bob and Steve
   (including new baseline schedule)
2. Update from Dehong on the teststand
3. Reports from subproject leaders
4. Report from Jim Steimel
5. AOB

1. Report from Bob and Steve.

- V3.0 of the Run 2 upgrade wbs is being prepared. Our new schedule will be included, as was discussed last week. A reminder of the new milestones (these may move a little as we develop the final plan):

Tev BPM: Requirements Review (Milestone) 9/22/03
Core HW technical choice review complete 12/16/03
Core electronics PO complete 3/11/04
Core electronics 1st modified board delivered 6/15/04
Electronics design review complete 6/25/04
Core electronics 1st production board available 8/13/04
First production qualty crate installation begins 8/23/04
All Tev BPM crates functionally available (for F bldg.) 11/22/04
Tev BPM Electronics comissioning complete 2/17/05
Tev BPM Upgrade Operational 3/3/05

- The filter requisition is in purchasing. This item is very close to or is on the critical path so we should watch it and push it along so we don't lose time unnecessarily here.

- We will meet on Thursday, May 20 to discuss diagnostics for the project.

2. Reports from L2 Managers

Rob Kutschke:

- Rob has put his v2 of the offline software specifications in the Doc DB. Please read and comment to Rob. He mentioned that the emphasis

is now on calibration. Rob has talked to many people and believes that this is consistent with the needs of the project. Timofei Bolshakov will be able to help with some of the coding required for the TeV BPM project. Rob also mentioned that we will need to be able to handle a partially-installed system in the commissioning phase.

Mike Martens:

- Mike will be away most of the next two weeks.

Brian Hendricks:

- Bob West will be helping to develop the diagnostics console application for the TeV BPM project.

- Brian is looking at Jim Steimel's calibration document.

Margaret Votava:

- The test plan document is fairly stable now. Still looking for comments if it is not complete and ready for the modified EchoTek boards.

Dehong Zhang:

- Working on the new VME driver code. Dehong is trying to decide whether it is best to start with Charlie Briegel's code and insert the new EchoTek code or whether to do it the other way around.

Mark Bowden:

- No new news from EchoTek on delivery dates for the modified boards.

- The board layout for the timing and diagnostic/front-end/interface/transition/filter board continues. The name of this second board has still to be decided.

- Setting up to measure resistance in the proposed relays after many cycles.

Tim Kasza:

- Work continues on the service buildings, pulling back the pbar cables. Stew Bledsoe is working on the layout of the "diagnostic" board.

Jim Steimel: Technical Coordinator Report

- The hardware review was last Friday and a report is expected soon.

- The pbar cables have been pulled back in service buildings A3 through C4. The cables in C2 are too short for the pullback, some other approach will be used there.

- All of the buildings will be surveyed to ensure that the full space is available for the VME crate + panels. It is expected that the full space required is 15U.

- Jim is investigating the question of the pbar cables in F sector. The cables are still being used for extraction of the beam to the fixed target areas. It is expected that this will be true until the shutdown at which time they would be turned over to the TeV BPM project. This is an area for further investigation.

- The question of BLM front-ends is still up in the air. Steve and Jim will contact Pushpa and others to learn more.

- All pbar cables in A3 have been connected in the tunnel and terminated in the service building. No effect was seen on the proton positions. This gives us the flexibility to connect the pbar cables in the tunnel (and terminate the other end) whenever it is convenient for the project.

- Jim is working with Dehong on the test stand in FCC, including getting a signal generator that can be used for more thorough testing of the system there.

- There may be a discussion Monday of the short-gate sampling mode and what that implies for data acquisition and storage.

4. AOB.