

Minutes, 11/19/03 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. Bob and Steve:

- Future meetings on Wednesdays will start at 11:15 A.M. This will hopefully allow those who attend the preceding controls meeting time to get to the Tev BPM meeting on time.
- The next meeting (November 26) will be cancelled due to a conflict. The hardware meetings will continue as planned.
- Work on the wbs continues. More iterations will be required to converge. Some of this work will be done by Steve and also by Steve in consultation with the subproject leaders.
- The current schedule for the technology choice review is mid-December.
- Bob has thought about the issues that Valeri Lebedev has brought to our attention and has concluded that the general solutions that are being considered will allow us to provide what Valeri is requesting. Bob will write something up but a short summary is that all the hardware contain amplitude and phase information and using both will allow extraction of the information asked for (center of charge or centroid of the bunch in turn-by-turn mode).
- There was a discussion of how we will converge on a hardware choice. One of the important components of the choice is convincing ourselves of the capability of the candidate electronics boards to make the

measurements required. To this end Bob would like to have each of the three general categories of boards (Echotek, DSR, Damper) be looked at and the capabilities of each board documented. Further discussion along these lines will occur at the Thursday hardware meeting.

2. Subproject Leader Reports:

Jim Steimel:

- Jim was just about to give his report when he was called out to work on the accelerator.

Rob Kutschke:

- Rob continues to look at the damper board data files and is working to correlate various timestamps. There are some questions about the timestamps of some of the files which don't make sense when compared to information about the accelerator.

Brian Hendricks:

- Met with Margaret, Dehong and Luciano to discuss ACNET devices associated with the Tevatron BPM/BLM system.
- Still waiting for metadata information from Jean and Rob.

Luciano Piccoli:

- Working to establish ACNET in the Feynman Computer Center for teststands.
- Working on updating the software specification and data format document (with Brian and others). The next version should be available next week.
- Working on the programming environment of the DSR board.

Vince Pavlicek:

- Pursuing measurements with beam of the various hardware solutions. More discussion of this activity will occur in the hardware meetings.

- The BLM "prototype" interface card is finished and measurements of things like speed have been made. Further work on a software framework is needed. Some decisions on how to integrate the interface into the finished system will have to be made as part of the design.

- Echotek would like to visit December 8 or 9.

3. AOB.

Dedicated hardware discussions continue, mostly in the Monday at 11 and Thursday at 2:30 timeslots in the Penthouse.