

Minutes, 11/12/03 Tevatron BPM Upgrade Meeting
Stephen Wolbers

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The agenda as announced consisted of:

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

1. Bob and Steve:

- The project will become an AIP (Accelerator Improvement Project). Given the work that has been done and will continue on building a wbs, tracking effort and M&S costs, writing reports, etc. this should be reasonably straightforward.
- A proposed outline for a review of the project tentatively scheduled for the last week of November was shown. There was spirited discussion on the usefulness of a review at this time. And in particular what the project would like to see reviewed and when. (After the meeting the review was tentatively rescheduled to mid-December. This will be discussed again at the next project meeting.)

2. Subproject Leader Reports:

Mike Martens:

- Mike has posted v4 of the requirements document. The changes to v3 can be seen by using MSWord "track changes" feature.
- Mike mentioned that the BPM offsets have been measured and are being reviewed/double-checked as necessary.
- Mike needs to review the software/data format document.
- Mike will be working on the Tevatron during the startup period, which is beginning very soon.

Jim Steimel:

- Jim is focussing on issues for the hardware meetings. In particular the architectures and how they satisfy or could satisfy the requirements.
- Jim is working on a comparison of the hardware options and how they compare in cost, schedule, effort, etc.

Vince Pavlicek/Mark Bowden:

- Bill Haynes is working on the BLM board. There were some questions raised about how we verify that this design meets the requirements for the interface and it seems prudent that a design review of the hardware system as a whole will include the BLM system as well.
- Mark is talking to Echotek about the "modified RR Echotek" architecture and is asking for cost and schedule estimates.

Margaret Votava:

- Margaret mentioned that we have to include license costs for software packages that will be required for the project.
- Some discussion of ACNET in FCC. Work is going on understand how to work with ACNET in the BD areas. More discussions are required to see how to access ACNET from FCC.
- Dehong is working on the DSR board on the teststand that Brian Chase has set up.
- Looking into diagnostic software for the VxWorks boards.
- Margaret showed a list of BPM/BLM ACNET devices. It looks like there are about 800 of them. Margaret will work with Brian to understand the list.

Rob Kutschke:

- Rob showed some nice plots showing where the 20,000

damper board files of data were taken near the end of the run, prior to Sept 5. There was a problem in the data because of a reflection due to a termination problem.

- This led to an interesting discussion of what data could and should be taken when the beam returns. In particular, a coordinated effort to spell out and schedule the studies period or the specific parasitic times (begin of store, end of store, shot setup, ...) that the TeV BPM project could use is essential.
- Rob is working with Valeri on the chromaticity measurement project.

3. AOB.

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