

Minutes, 10/22/03 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:

- A wbs for the project is being put together by Bakul Banerjee, by putting together the tasks that have been collected from the subproject leaders. As this becomes more coherent it will be (and probably has been) posted on our web pages. The current thinking has 5 top-level tasks:

1. Design
2. Fabricate
3. Install
4. Commission
5. Project Management

Each sub-task has components in the first 4 tasks, and there are dependencies to ensure that the dates make sense. Mike Marten's and Jim Steimel's work cut across the whole project and are included in the Project Management Task.

- Bob and Steve talked with Pushpa Bhat last week about the project, status of the design, plans, reviews, etc. For the moment we have no major reviews. However, as we make our decisions and move forward in many of the subprojects we will work to establish milestones and reviews.
- Steve will give a talk to the Tevatron Department meeting on Friday, October 24. A draft of the talk will go out early enough for all to comment.
- Tom Shea's talk was well received and we summarized some of the major issues that he mentioned, including his recommendations of oversampling, use commodity systems wherever possible, migrate closer to network attached devices, and don't put active electronics in the tunnel. Also make sure that test circuitry

tests not just the electronics but also the cables, pickups, etc.

2. Subproject Leader Reports:

Brian Hendricks:

- Brian mentioned that the software specification document (BD 860) is available for comments and people should send them to the whole list (tev-bpm-project@fnal.gov)

Jim Steimel:

- Jim gave a quite nice talk about measuring the p and pbar positions in the frequency domain. I do not believe I can do the talk justice. However, Jim will write the full derivation up and will make it available as a note.

Mike Martens:

- Mike sent his report by email:

As for the update on the project status:

- * We plan to meet in the next day or so to discuss the BPM offset measurements.
- * Some of us in the Tev group are continuing to think about requirements/upgrades to the BPM software and the orbit smoothing procedure.
- * Margaret and Luciano's notes on the DAQ specs seem fine to me. It will be easier to make specific comments once the design is chosen, but clearly they are headed in the right direction.
- * I am worried that the preparations for the Tevatron startup and the shift work during the commissioning will keep me busy for the next 4-5 weeks and I may not have as much time to spend on the BPM project as I would like during that time. Fortunately I think the requirements are in a reasonable shape.
- * I still owe the group a version 4 of the requirements document.

3. AOB.

