

Minutes, 5/25/05 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:

Report from Bob and Steve
Reports from subproject leaders
Report from Jim Steimel
AOB

1. Report from Bob and Steve

- Real Time 2005 conference is June 4-10. Luciano is giving a talk and a paper. The draft of the paper has been circulated and people should comment to Luciano. There will be a practice talk Thursday at 1:30.

- Steve reviewed some of the major tasks remaining for the project before we complete. These include:

- Fix broken stuff
- Marv's wish list
- Complete safe mode
- pbar measurements (in progress)
- calibrations and calibration DB (in progress)
- Diagnostics (docDB 1835)
- Determine and implement overall scale and corrections for higher order terms or off-axis terms
- Documentation.
- Transition to operations (teststands, other items)
- Close out project.
- Party (June 2 at Users Center, 4:30 P.M.)
- Remove old BPM electronics
(except for a few where the analog electronics are still in use, A0, A4)

2. Reports from subproject leaders

Mike Martens:

- Valery, Yuri and Eliana have been using the new BPMs to study

optics, beta functions, etc.

- Orbit smoothing with the new BPMs is working well.
- An email was sent with remaining problems with the new BPMs.
- Work is going on to get the measurements needed to calculate the cancellation coefficients needed for the pbar measurements. However, the results so far look "crazy" and some debugging is needed.

Rob Kutschke:

- Marc Mengel is working on integrating the calibrations and using the information from the database in the front end.
- I and Q values from the central orbit and after the helix opens has been collected by Mike and sent to Rob. Some problems were seen, some bugs fixed. This is moving along.
- Safe mode is working fine.
- A couple of filters may be flaky. This will have to be documented and chased down.
- Rob has a wish list for Roger Tokarek and W133.

Tim Kasza:

- Final hardware is installed. docDB #1844 has a snapshot of all the equipment installed in all the houses.
- Bill Barker will help with the removal of the old TeV BPM electronics.
- Dehong has updated all the firmware on the Echotek boards.

Vince Pavlicek:

- A change to the Timing Board firmware is necessary to allow FPGA firmware loading. There will likely be a change to the firmware to produce a different pattern of diagnostic signals. It will probably happen together in a new version and the installation needs to be properly scheduled.

Brian Hendricks:

- One problem of changing to the new system was the global timestamp that came from the old F4 system. That has been changed.

- The raw data reading from A0, B0 and D0 is now working.
- W25 changes are being made to partially satisfy Marv's wish list. Other changes are being looked at by Bob West.

Lucian Piccoli:

- The Front End now listens to state devices for safe mode.
- Lots of discussion about safe mode, how to tell it is in safe mode, how to test that it works (ring-wide), etc.
- Front End is ready for calibrations.

3. Jim Steimel

- Working on diagnostics, in particular the proper pattern, the front-end code for the diagnostics, the application to control it, etc.

4. AOB

- Practice talk by Luciano Piccoli Thursday May 26 at 1:30, Penthouse.