

Minutes, 5/11/05 Tevatron BPM Upgrade Meeting
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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

- The PAC2005 is coming up. Please be aware of the deadline for paper submission and the need for copyright transfer, etc. There are 4 papers due May 11, 1 talk (due to be uploaded to the conference May 12) and 3 posters (need to be completed before people travel to the meeting).

- Also the Real Time 2005 conference is June 4-10. Luciano will be giving a presentation about the TeV BPM. He will circulate a draft well before the meeting.

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

- Solve TBT problems (done)
- Solve missing TCLK problems (done)
- Solve 6 phase problem (done)
- Implement safe mode (well along)
- Implement pbar measurements (in progress)
- Implement calibrations and calibration DB (in progress)
- Determine and implement overall scale and corrections for higher order terms or off-axis terms
- Implement diagnostics
- Documentation.
- Close out project.
- Party (June 2 at Users Center, 4:30 P.M.)

- Commissioning status is:

- 24 houses installed and connected and 24 commissioned
- 2 houses to connect (F3 and F4)

- 1 house to install (A0)

2. Reports from subproject leaders

Vince Pavlicek:

- Bill is working on the diagnostic signal with Jim Steimel. Some things left to complete are an upgrade to the latest compiler for the FPGA code, depositing the code into cvs.
- Nothing yet from Lark about the bad filters. Will ping them.
- Echotek FPGA firmware download problem may be fixed. Details later.

Brian Hendricks:

- Work continues on TBT applications, W133 and W136. Plan is for W133 to have the functionality of both programs.

Luciano Piccoli:

- A3 is running in safe mode and collecting data. 8K samples (74 turns) are being taken. To complete this mode a state device, application or parameter page will be needed to easily get the system into and out of safe mode since it is expected to be used rarely.
- The devices for offsets and other calibrations are available on the test stand.
- FTP at 500 Hz is next on the list of things to do.

Tim Kasza:

- Bill Barker is helping with the extension cables for F3 and F4. Rob Kutschke asked for attenuation information about those cables.
- A set of 75 foot lemo/smb cables is needed for A0. These should be made and available fairly soon.

Rob Kutschke:

- Rob has been monitoring the recent injections and they look very good.
- Mike is creating a pbar cancellation application to collect data that will be used to calculate the cancellation coefficients that can

then be loaded into the front end to provide pbar measurements.

- Also work is going on to provide the calibrations for offsets before the end of May.

- Short discussion of fast and slow abort buffers.

3. Jim Steimel

- Jim is working diagnostics application. He is talking to Bob and Marv about their ideas and to Bill about the patterns that one can generate. It would be best to use the same closed orbit Echotek setup for the diagnostics as for the data collection and some tuning of the diagnostic signal should be able to allow that. There is work left to turn this into a console application, including deciding exactly how it gets done and who can do the programming. Jim will pursue.

- The 6 phase problem (first iteration) is solved.

4. AOB

- Jim will call or not call a meeting next week while some of us are away at the PAC05 conference.