Minutes, 6/23/04 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 Bob and Steve
2. Reports from subproject leaders
3. Report from Jim Steimel
4. AOB - Pizza

1. Report from Bob and Steve.

   - Filters. There are still 3 companies in the running to provide
the filters we need for the project. Vince continues to gather
information from them to decide which if any of them meet the
specifications, what the cost is and what the schedule is. Also to
learn about packaging.

   - Bob has read and is happy with the testing procedure for the new
EchoTek boards. He asked whether these tests have been made on the
current Recycler boards and Dehong said that yes this has occurred.

   - At this point Dehong mentioned that the EchoTek boards should be
shipped later this week.

   - Steve will be away Friday June 25 through the July 4 weekend

2. Reports from L2 Managers

Brian Hendricks:

   - Brian discussed calibrations with Margaret and Luciano and has
made modifications to the data format and this is documented in a new
version of doc #860. Doc #1067 will also be updated to reflect the
changes.

- Work is still required on the diagnostics.

- Brian is in need of the manual for the diagnostics of the VME crates.

Vince Pavlicek, Bill Haynes, Bob Forster:

- Vince had a timing board to show every one. They are being assembled now. The FPGA needs to be replaced with a different version and there are transformers missing. Jim S. can probably help with transformers.

- Bob asked if there was a facility for testing the boards. Bill mentioned that he will test the clock first and that should be straightforward. Later there will be a need for some sort of test suite to ensure that the board has the full functionality required.

- Bill mentioned that the PLL's running free differ only in the 5th digit in their clock frequency.

- The filter board is being made now. Will be assembled next week with all the parts except for the filters. Bob W asked for a schematic of the filter board and Vince will provide it.

- The Dawn VME crates (first two) ship on Friday.

- Bob Forster brought along some cables to show (RG316, RG142) and showed some testing results. He has a spreadsheet of the number of cables of which type are needed and the lengths and connector types. The total estimated cost is about $50K (may be lower when it is bid).

- Bob Webber asked about a labelling scheme. The very short jumpers probably do not need to be labelled but the cables connecting the RG8 from the tunnel to the front of the crate should be labelled. Jim, Bob and Bob will think about and come up with a plan for getting these cables labelled properly. Peter Prieto can be asked how it was done for the Recycler BPM system.

Luciano Piccoli:

- Front-end software implementation is moving along. Closed orbit and turn by turn modes are available. It was discussed and decided that the best way to proceed is to read out data to ACNET as soon as possible. This will allow for proper end to end tests with the upgrade crate, crate controller, front end software and online software as soon as possible.

Tim Kasza:

   - Service building cable work continues. Last week E1 through E4 were completed. This gives 18 out of 27 finished. Two more can be done before the shutdown and the remainder will likely be done as part of installation or commissioning.

3. Jim Steimel: Technical Coordinator Report

   - Marv Olson has connected more pbar cables in the tunnel (A4).

   - Jim continues to examine service buildings for space for the TeV BPM upgrade crates. The C sector interlock equipment needs to move and that will happen at the beginning of the shutdown. The collision point monitors in B0 and D0 will likely be removed and replaced when we install the new TeV BPM system in those locations.

4. Pizza.

   - The pizza was excellent.