

Minutes, 3/23/05 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

- Talks this week and next include a talk by Steve and Rob at the Thursday Run 2 meeting in the Huddle at 2:30 P.M. and next week a talk by Bob at the lab's operations review breakout sessions.

- Absences include Jim from March 25 through April 1. Brian and Tim from March 28 through April 1. Steve is on shift March 25 through April 1.

- The fiber work in WH7 that will take down the test-stand (interrupt its connection to the AD network) will occur Thursday March 24 in the morning. Once the work is completed we hope to have the connection reestablished as quickly as possible.

- Next week there will be a meeting on Monday at 11:00 in the Penthouse. Many people will be missing but it will be a good opportunity to get people coordinated. A decision will be made then whether to have a meeting on Wednesday the 30th. We will get together Monday April 4.

- Bob asked Rob about proton resolution and antiproton measurements for his (Bob's) breakout talk.

- Reminder of the new crate installation order. B0 went in Wednesday March 23.

B0,D0,A2,B2,C2,D2,E2,F2,A4,B4,C4,D4,E4,A1,B1,C1,D1,E1,A0,F3,F4,F1

2. TBT problems

- We had a long and interesting discussion of the turn by turn problems. Jim described much of the work that he, Luciano, Bill, Dehong and others have been doing to try to reproduce, isolate and solve the problem.

- Changes were made to the front-end software on Monday (v1\_43) to try to address some of the timing/locking issues. Apparently that did not work as the data from the store on Tuesday did not look very good.

- Further studies on Tuesday indicated that some of the same behavior can be simulated on the teststand when changing from raw mode to TBT mode and this is a clue.

- There was a long discussion about the Echotek firmware, the register that forces the Graychip to "flush" on reset pulses, etc. Can we check that register? Do we need to set it every turn? Should we just load the newest firmware and not bother with the register? Should we talk to Echotek and see if they have some suggestions?

- Jim mentioned that the pretrigger delays were not set properly on Monday and so Tuesday's data was somewhat messed up by that. The next shot (Wednesday) should have the proper pre-trigger delays.

- We discussed a little the timeline of events that occur when we take the injection first turn measurements. Are we not properly locking the triggers/mode changes and therefore messing up the Echotek? Would it be better at 100 Hz? Is the timing board seeing all of the TCLK's and responding properly? Is the Echotek set up properly? Can we inquire to find out? How does the Recycler system handle the mode change? Lots of questions -- many things to investigate.

### 3. AOB

- B0 was installed today. Jim will train Marv on setting the timing for the houses.

- No meeting Thursday March 24.