

Bob Webber

From: Bob Webber [webber@fnal.gov] on behalf of Robert C. Webber [webber@fnal.gov]
Sent: Wednesday, October 05, 2005 3:58 PM
To: 'mi-bpm-project@fnal.gov'
Subject: Notes from 10/4/05 MI BPM Upgrade Meeting

Notes from the 10/4/05 MI BPM Upgrade Meeting Bob Webber These notes can be found (eventually) in Beams docDB #1526.

Agenda as announced:

Project Announcements : Bob and Steve
Combiner Board status : Tim, Bob Forster, Vince
VME crate purchase status : Bob Forster
MI30 status : Peter, Bob Webber
Transition Board status : Manfred
Service Building survey/BLM coordination : Tim, Marv
Front-end software : Luciano
MVME processor status : Luciano Margaret, Steve
Online software : Brian
Validation: Rob Kutschke
MI BPM requirements/MI issues : Dave and Alberto
Timing Board : Bill
AOB

0. Announcements - Bob and Steve (in absentia)

- Goal has been established to have a "final hardware/functional software" system installed, tested, and operating as replacement for at least one MI BPM "house" no later than January 15, 2006. "State Awareness" is desired, though not required, provided that this first installation serves as fully functional substitute for the "house" it replaces. The urgency of this is to have operationally commissioned proof-of-principle (and as many installed systems as possible) prior to the ??? Winter/spring shut-down.

- Alberto Marchionni/Dave Capista will identify soon which existing MI BPM "house" will be first replaced.

1. Combiner board status - Bob Forster

- Same status as last week, i.e. company says boards will be shipped 'tomorrow'. We can only wait and see. Bob presently sees no benefit to ask procurement dept. to apply pressure.

2. VME crate purchase status : Bob Forster

- The VME crate request for proposals is on the street and we wait for bids to be submitted. Bob reports that procurement included MuPac in the bid process.

- TeV and other Dawn crates --- latest ECO for fan monitoring and UDP installed in one crate and available to us for installation in others as needed. Fan monitoring piece seems to work; Charlie Briegel is investigating the UDP interface performance.

3. Service Building survey/BLM coordination : Marv

- Marv et al. continue to work on cable length issues and drawings to support that and other aspects of installation.

- Marv will coordinate planning with the MI BLM project people to identify specific racks and locations in racks for BPM and BLM equipment. This is necessary in order to proceed with cable specs and ordering. Marv will have proposal next week for approval by Alberto and Dave.

4. MI30 status : Manfred, Peter

- Manfred showed results of beam measurements through the 53Mhz channel of his transition board with recent circuit changes and gain modifications. Compared to measurements through a completely passive signal path the results indicate that circuit saturation problems have been resolved.

- Peter and Charlie have determined that Charlie's preliminary work on EchoTek driver software for the "multi-channel" Grey Chip setup does not provide the facility to support TBT measurements. Initial TBT tests must wait for the CD driver software.

5. Transition Board status : Manfred

- Circuit board layout for the 8 channel prototype with IO is beginning. Design of firmware and definition of control interface is now top priority for transition board.

- There is tentative plan to have small review of transition board design on October 12. This will lead to approval to begin procurement of transition board and crate parts in production quantities.

6. Front-end software : Luciano

- There is now a dedicated MI BPM test crate in FCC.

- Recent activities have focused on EchoTek driver work and timing board testing. A problem with timing board firmware was identified and fixed.

- Luciano et al. have meeting scheduled on Friday with Brian Hendricks and Linden Carmichael to work out ACNET and "I6" related questions.

- Luciano promised a software availability schedule next week.

- Steve Foulkes is working on software specs document and expects to soon begin design document.

7. MVME processor status : Luciano, Steve

- Work with 5500 series VME cpu board is awaiting PMC card driver software that Charlie Briegel is providing.

8. Online software : Brian

- Nothing new reported, except planned meeting with Luciano et al.

9. Validation: Rob Kutschke

- Rob is improving understanding of MI operations.

10. MI BPM requirements/MI issues : Dave and Alberto

- A second meeting was held last Friday to discuss Margaret's comments to the requirements document. That discussion was completed at that meeting. The result of those discussions will go into an updated requirements document.