

MI BPM Project MI BPM TB Control Module Status Report September 5th, 2006

Significant changes are **highlighted**.

MI BPM TB Control Module

Hardware status:

-) Updated version of the Control Module manual is available.
It includes new address mapping scheme.

Firmware status:

-) Coding work progress:
 - 1) Transition Board single module addressing and read-back. **√ Completed**
 - 2) TB/Control Module Integration testing **√ Completed**.
 - 3) Diagnostics. Work in progress.

MI BPM TB

Firmware status:

-) Coding in progress together with Control Module firmware development:
Transition Board single module addressing and read back. **√ Completed**
TB registers and control signals have been redefined.

INTEGRATION TESTS

- 1) Transition Board ↔ Control module Integration testing **√ Completed**
- 2) Control Module ↔ Timing Module hardware integration testing **partially completed**.
TB addressing works correctly. A change is required in Timing Module firmware in order for the read-back capability to be enabled.
- 3) FCC Test System modules had been upgraded with Transition Boards and Control Module running the new firmware.
- 4) Software integration (Steve, Luciano) should start this week.

NEW SYSTEM COMMISSIONING

- 1) Enable Read-back capability in Timing Module firmware.
- 2) Complete software integration tests.
- 3) Upgrade one system at the time:
 - a) Update or swap Timing Module
 - b) Apply hardware modification to Control Module
 - c) Update Control Module firmware
 - d) Updated Transition Boards firmware.
- 4) Verify system functionality.

Document related to the Control Module are available on the web page:

http://www-ese.fnal.gov/MI_BPM_TB_CTL/