

RHIC BPM Meeting

August 7, 2008

Minutes

Attendees: Craig Dawson, Chris Degen, Justin Gullotta, Rob Michnoff, Michiko Minty, Bob Olsen, Tom Russo, Todd Satogata, Reid Smith

1. Discussed overall system status (Powerpoint presentation is attached separately).
2. Some specific details discussed and reported include:
 - 40 feedthroughs are on order and expect to be received by the end of August, 24 feedthroughs will be replaced.
 - Tests are required to understand the differences between the existing feedthroughs and the new feedthroughs, in terms of signal losses, etc.
 - The service building and alcove temperature variations as measured from logged data during the past run are around +/- 2.5 deg F. Higher excursions have been noted at times. No plans exist at this time to provide better temperature control. Daily monitoring will be needed in attempt to prevent drastic excursions.
 - There are no plans at this time to provide temperature compensation in the ADO or DSP code.
 - Initial BPM wire scanning test results were discussed.
 - Justin has performed some additional temperature tests. A report will be generated.

3. Upcoming efforts

Some specific work expected to be performed over the next few weeks includes:

- a. Update schedule. Input from all is requested by Monday August, 11th. (Rob)
- b. Complete installation of modules in ring, and ensure that sufficient quantity of spare modules is available. (Justin, Phil)
- c. Analyze profile data sets taken with beam to determine any obvious cable mismatch errors. (Todd)
- d. TDR cables found to have significant mismatch errors based on Todd's analysis.
- e. Continue wire scanning tests (Reid)
- f. Additional temperature tests and associated documentation (Justin)
- g. Archive Altera gate array files in drafting area. (Justin)
- h. Develop detailed design plans for incorporating data quality checks. (Rob, Todd, Michiko)
- i. Automatic timing calibration design and development (Some specific details are provided in July 24, 2008 meeting minutes)
- j. Feedthrough tests

- k. Plus additional work shown on the schedule
4. Other efforts
- a. Identify the cause of measurement differences between the internal and external signals.