

**AD/TD Joint Projects Meeting**  
**Wednesday, 10 December 2003, 10:30 AM**  
**TD/Hermitage Conference Room**

**Present:** Weiren Chou, Paul Czarapata, Harlan Dick, Dave Harding (scribe), Gregg Kobliska, Jeff Spalding, Rich Stanek, LaDaune Trierweiler, Victor Yarba

**AGENDA**

Reports of notable achievements or problems

Tunnel work

IQD glitch solved

WBS for effort reporting, M&S

Goals

Choices

Mechanics

Continued refinement of project list

Expected review and decision dates for:

AP2/Debuncher aperture work

Tev RF

Tev reference magnet system

FMI large aperture quad

Specifications

Various Booster work, especially ORBUMP

Shutdown '04

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**Notable Achievements or Problems**

The request that the name of Beams Division be changed back to Accelerator Division has been granted.

Dave H. noted that crises in the tunnel have an impact on TD's schedule as well as AD's schedule.

The spare IQD effort has suffered a set-back that will delay the delivery of the first magnet (and subsequent magnets) by about a month. When TD tried to assemble the first magnet, the coils would not fit in the core. The fiberglass tape labeled 5 mil thick seems to be 7 mil thick, and the build-up over multiple layers brought the package significantly large. This was not noticed, as it should have been, during installation of the coil in the potting mold because an accumulation of epoxy in the bottom of some bolt holes prevented the cover from completely closing even though the bolts were fully tightened. The coil was then formed to this larger size. This is being remedied, but four more coils will need to be potted at a rate of one per week before a magnet can be assembled.

Gregg is working with Chris Jensen and a vendor on the proposed larger, rectangular ceramic beam tube cross section.

Discussions continue with Brookhaven on the 7835 tubes. Fermilab legal advice is that we can do R&D and prepare for rebuilding and fabrication, as long as we don't take business away from Burle.

## **WBS and task numbers for effort reporting and M&S**

Jeff Spalding showed the AD WBS for the Run II Luminosity Upgrade. He explained that while there was a WBS for the project, below the third level there was a somewhat independent structure of task numbers that would be used for financial accounting, rolling up to reporting at the same level three as the project WBS. A fifth level number of 0 implies a summary task for financial tracking. Tasks can be added under that as needed. M&S for TD work will be charged to these codes and distinguished from AD charges by the originator code in the Oracle system. TD will establish appropriate tasks for effort reporting and provide a map that lets AD find the TD labor for each AD code and add that in for project reporting purposes.

Run II Luminosity codes are of the form 20.26... The Run II Maintenance and Reliability codes are 20.27... These are not the only projects that TD is doing for BD.

The appropriate granularity will be decided on a case-by-case basis. When TD builds multiple identical devices to be shared by different AD departments or projects, a work in progress code will be established to capture all the charges. The charges can then be distributed appropriately by AD. A current example is the new coils for the LEP correctors.

TD and AD will work off-line over the next few weeks to develop a structure of aligned task numbers.

## **Reviews and Decisions**

AP2/Debuncher: The original plan was to develop a master plan after completing the mechanical aperture survey, making optics calculations, and conducting beam studies. Some choices have become clear and time is running out to build anything for installation in the 2004 shut down. Jeff proposes to approve some individual projects before the full solution is known. He has task numbers for the Debuncher injection septum and the Debuncher extraction kicker. The D4Q4 replacement with two LQB's is not expected to be sufficiently expensive to justify a dedicated AD task number.

Tev RF: TD will do nothing until receiving further instruction.

Tev reference magnet system: As was the case at the last meeting, AD is attempting to schedule review of requirements next week

FMI large aperture quad: No further word.

## **Specifications**

TD is meeting with Proton Source weekly to work out a specification for the ORBUMP magnets.

## **Shutdown 2004**

Dave H. reminded everyone that time is running out to choose projects for the 2004 shutdown if they involve new designs and construction.

TD will update reports for the 7 January meeting.

**Next Meeting: Wednesday, 24 December 2003, 10:30 AM ?????**

**Following Meeting: Wednesday, 7 January 2004, 10:30 AM,**

**Hermitage Conference Room (Industrial Center Building, 2nd Floor, East)**