

## Minutes of the TD/BD Coordination Meeting

16 May 2003

Present: Bob Kephart, Victor Yarba, Mike Lamm, John Carson, Jim Kerby (scribe), Paul Czarapata, Roger Dixon, Giorgio Apollinari.

Agenda: Discuss the distributed TD / BD job list by category  
([http://tdserver1/project/jobfiles/Current\\_Jobs/TD\\_work\\_for\\_BD/TD-BD\\_JoblistSorted.htm](http://tdserver1/project/jobfiles/Current_Jobs/TD_work_for_BD/TD-BD_JoblistSorted.htm))

The job list was sorted into the following categories:

1. Possible new work - need input
2. Jobs started and stopped
3. Conducting studies / awaiting answers
4. Active jobs - in process
5. Jobs completed

Referencing the job list, the 3<sup>rd</sup> column from the left is a TD internal "Job Number". Jobs are listed by this number in the list below. Comments for each job are noted; those jobs not listed here were simply given an "ok".

Category 1 items are those TD could possibly work on (typically after completion of a design report), or is expecting to work on, but need either a management decision by BD or further technical input:

- 0203 Orbump replacements, as Miniboone runs these magnet harder. BD to confirm the number of existing spares, and give instruction on building of new spares possibly with a new design to accommodate the harder running.
- 0219 TD evaluation is done and report delivered. We have had no feedback.
- 0218 Of the 3 booster jobs, it's OK this one is stopped but the current BD guess is this is the one most likely to get attention next year.
- 0253 LEP corrector coils are on hold due to funding, but will be done. Not before FY04.
- 0206 Debuncher stochastic cooling study is on hold. TD has not rec'd a definitive go / no go.
- 0222 TD evaluation is done and report delivered. We have had no feedback.
- 0223 We needed D. Harding to better clarify the understanding of this task (thru 0225).

- 0237 HV modulator. TD study done and delivered, no feedback as yet. Work delayed until FY04 due to funding..
- 0245 TSD066 spool safety lead. TD needs a decision from BD what the spool spares count should be. Some concerns that the failure of the cold solder joint could be systematic. If the spool is rebuilt, should it be rebuilt with a re-cooler or not? G. Annala / D. Harding should be listed as the contacts.
- 0266 TD completed the study for a 6T dipole to generate warm space in the Tevatron. TD understands that for the current application it is very doubtful the magnet will be required. TD notes that a request for a "6T" Tevatron dipole comes up every few years, and presents a strategic question: for a cost around 500k\$, should we pursue the construction and test of a 6T model magnet to prove the design in preparation for any possible future applications?
- 0218 Of the 3 booster jobs, it's OK this one is stopped but the current BD guess is this is the one most likely to get attention next year.

Category 2 jobs are tasks started in TD, but then stopped for a variety of reasons.

- 0260 E907 has found other 3Q120s to use, TD will not do this. The contact should be changed to C. Brown.
- 0181 Work is deferred to FY04 by funding restraints. Contact should be updated to I. Kourbanis.
- 0207 TD understands the kicker will be made in BD. This is OK, but contrary to a previous plan where kicker work would move to TD. Clarification of where kicker work will occur would be useful.
- 0154 Need BD technical agreement to continue.
- 0133 (and 0134). Dependent on a Torlon solution (job 0230). For installation, would require spools in tunnel to be warm enough such that there are no ice balls. Other than local warm ups, that is not the current plan for the summer shutdown.
- 0210 RF structure work has been recently restarted. This should be moved to category 3, and the BD contact is V. Shiltsev.
- 0226 HTS spools. On hold, and the AIP is to be closed out. TD proposes the HTS leads themselves be put in spares, and the remaining parts junked. BD to decide what to do with the already installed 'orphan' spools which work but are single items in the ring.
- 0235 Remove from list.

- 0236 Remove from list.
- 0243 Deferred until FY04 due to BD funding restraints. TD notes we are under-running slightly in budget, may be able to support most critical BD items from within our existing budget or support shutdown tunnel personnel to assist BD to some extent.

Category 3 jobs are studies started and ongoing in TD.

- 0230 The conning tower spools continue to have corrosion problems in test, and the Torlon fix is not as yet completely satisfactory (either due to material or our application process). We continue to work on this.
- 0234 TD continues to measure the drop in the dipoles and check the information in the travelers as time permits. Due to site power work, there may be an access the week after Memorial Day we can plan for.
- ?? Alignment studies...even if the cold lift / shimming solutions are not implemented in the tunnel, TD is encouraged to keep working on the problem to develop a better understanding.
- 0239 Though setting up an on-line reference magnet looks not so promising (due in part to the variation in Tev magnets), TD is exploring the powering of Tev dipoles at MTF in playback mode, where the Tev powering is recorded and then duplicated.
- 0264 Continue to pursue the new separator material..
- 0265 At this meeting at least, less preferred as compared to 0264.

Category 4 jobs are active tasks in TD.

- 0215 BD to answer if there is a spare for a shuttered magnet in pbar.
- 0254 TD should give a BD seminar on the alignment of Tev dipoles and all the related intricacies.

Category 5 jobs are 'completed' tasks in TD.

- 0204 TD done w/ AP2, what is the next step in the process? TD is continuing with the remainder of the layout; BD starting to plan for actual alignment measurements during shutdown.

The next meeting is planned for 2 weeks, 29 May 1:30P.