

MDI Common Task Group Phone Meeting

August 23rd 2010, 13:00 – 14:15 UTC

Present

P. Burrows, A. Hervé, T. Markiewicz, M. Oriunno, A. Seryi, T. Tauchi, K. Buesser

FTE Request Specifications

B. Barish and S. Yamada have presented the document with the Push-pull Design Study and the related request for additional engineering resources to ILCSC. R. Heuer has approached Barry afterwards and asked for more details about the request for each institution: “What is it for, is there an identified person, has the identified lab management been approached, is there flexibility for that task to get the support elsewhere?” Barry has asked us to provide this information as soon as possible.

The answers to these questions will be drafted until the end of this week. Alain will take care of the CERN request, the KEK request is already specified in the footnote in the document, the LLR request will be dealt by Karsten, Phil and Andrei will take care of the JAI tasks and Tom will specify the SLAC numbers. The information for machine related tasks at FNAL, BARC, CI/ASTEC, JINR, BNL, and LAPP has already been collected by Andrei.

Andrei and Karsten will compile the information into a short document to be sent to Barry.

Push-pull Related Tasks

At the CFS workshop at SLAC, a list of milestones towards a decision on a common detector motion system that can be reasonably reached until the October LC-Workshop at SLAC has been assembled. Phil has suggested to invite the experts working on these tasks to regular MDI Webex meetings in preparation of the LC workshop. The list comprises:

1. Vibration Analysis of ILD on a platform (Does it meet the requirements?)
2. Benchmarking of the Vibration Model on Belle (work in progress at KEK)
3. Implications on the ILD design for Push/Pull without Platform
4. SiD Vibration studies w/ or w/o platform (in progress at SLAC)
5. Costing of the whole Platform concept (Concrete+Roller/Airpads+Antiseismic, etc)
6. Vibration measurement of the CMS platform at PX56

Marco points out that it is important to understand the status of task 3 better for a fair and symmetric assessment of the decision for or against a platform. With exception of task 1, there seems to be quite some progress that deserves the attention of the MDI/BDS group. The experts for tasks 2,3 and 4 should be invited to the next MDI/BDS webex meeting that is envisaged for mid-September for status reports. The other tasks will be reported in a sub-subsequent meeting.

Detector Motion System Document

Alain has presented the third draft of a document that tries to collect facts and arguments to facilitate a decision on the detector motion system (platform or not) at the timescale of the spring LC-workshop in Oregon. He tries to take the approach that should be taken by a technical responsible person that might need to guarantee the functioning of the motion system for a timescale of 15-20 years.

Though the current draft of the document is apparently biased towards a platform solution, the methodology of listing the propositions for a push-pull system has been taken as a good approach by the MDI-CTG.

Tom raised concerns on the relation of this new document to the IR requirements document that has been published in 2009. He would like to keep the requirements separated from the technical solutions. In principle, this is agreed upon by the MDI-CTG. However, at the present stage of the discussion, it could be good to have also the push-pull related requirements in this new document. The official requirement document could be updated if it turns out that new insights and developments might show the need for changes.

Some propositions in Alain's draft are apparently undisputed, some need more discussion and some are probably controversial. Discussion about the propositions will be continued via e-mail until the next MDI-CTG meeting in September. Karsten will draft a list the propositions together with the approval or non-approval of the MDI-CTG members. This should show in better details the need for further R&D or discussions.

It is understood that the document will be used for internal purposes in the beginning. If it turns out that we can agree on a list of common propositions, this document could also be published at a later stage.

AOB

Tom asks about the status of the planning of the MDI parts of the CERN LC workshop in October. Karsten reports that he is one of the conveners of the MDI sessions, together with Lau Gatignon (CERN) and Matthieu Joré (LAL). No detailed planning has been done so far, but he hopes that it will start soon. He understands that significant time at the workshop should be spent on the push-pull issues.