

Draft: Minutes of ML-SCRF Technology Meeting (091014)

Date & Time:

13:00-14:00 GMT, 14 October 2009, via WebEx.

Participants:

A. Yamamoto, M. Ross, N. Ohuchi, H. Hayano, J. Kerby, R. Geng, T. Shidara, S. Fukuda, B. Rimmer, N. Toge, C. Ginsburg, J. Carwardine, P. Pierini

Presentation files are available at the following Indico site;

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=4219>

1) Report from Project Managers

Akira and Marc thank everyone for their participation at ALCPG09, and for the upcoming preparations for the AD&I meeting in December at DESY. Nobu will talk about writing assignments later. In addition, the ILC PAC meeting is the first week of November in Korea.

2) GL Reports

Hitoshi Hayano gave a brief report on cavity work at KEK. MHI07 will be tested tomorrow. If successful, it will be the fourth Japanese cavity for S1 Global. In addition, AES003 grinding is complete and it will be sent back to FNAL soon. Hitoshi is going to check the iris again before shipping. AES003 has received a 30~50 micron EP after the grinding to clean up dust, etc.

Rongli Geng noted that the next S0 webex meeting will be 27 October, preceding the S1 Global webex meeting on the same day. The S0 discussion topics will include the R&D and production gradient targets for further discussion at the AD&I meeting; Rongli and others noted that the allowable spread in the cavity gradient being discussed is actually a question for the HLRF (or maybe the next ML webex meeting in November), though the S0 database effort will be able to report what the current spread is.

3) Topics

- **Including 'potential vendor's cavities' into yield statistics, and rebaselining the field gradient, Q-value, and yield toward TDP-2 (led by Akira)**

Akira led a discussion based on the ALCPG closeout cavity discussion (slides posted at above link). The questions center on what gradient, Q, and yield should be used in the upcoming months. For the moment, the proposal based on the recent results is that we keep the R&D target at 35MV/m, and the production target at 31.5MV/m. However, with our HLRF colleagues we should explore the cost associated with utilizing cavities with an average of 31.5MV/m, but a spread of +/-20% (for instance) about that value, and the economic impact of such a spread. This will be further discussed in upcoming HLRF and ML meetings.

As far as including cavities from vendors just starting up, Akira has the feeling for both MHI and AES that we start with cavity No.5 of each. MHI has agreed with such a proposal, and to date informal discussions with AES and colleagues in American region support this for AES as well. This will be confirmed amongst the S0 working group; in addition Jim will discuss it with Bob Kephart and Mark Champion at FNAL, among others. Within the database it would seem that designating early cavities as 'Production 0' or some such marker could accommodate this segregation.

- **S1 Global preparation and a meeting at KEK in November**

Norihito described the progress in yesterday's webex meeting in agreeing on parts and participation in assembling S1 Global (slides posted). The next S1 webex meeting will be in 2 weeks, followed the week of November 9 by further longer discussions with FNAL and DESY. Paolo noted INFN's interest to participate as well, particularly in tuner installation, which is very much appreciated, and if arrangements can be made, INFN may be represented at KEK the week of November 9 as well.

- **SB2009 documentation plan and task assignment for SCRF part**

Nobu (slides) described the process for assembling the TDR over the next couple of months, and those responsible for providing information (careful if you are already late!). There will be a webex meeting probably in the first week of November to push the process along, leading up to the meeting at DESY. Please check the temporary file repository at <http://ilc.kek.jp/sb2009/>, his slides for your assignments, or contact Nobu if you need/want corrections to his mailing list, ml-sb2009@lcdev.kek.jp. (Note: After the meeting Nobu has added

Paolo and Carlo to the SB2009 list)

4) Further Plans and Meetings

Next ML-SCRF webex meeting: 11 November, 13:00- GMT (to be confirmed).

The following ML-SCRF webex meeting is tentatively scheduled for 9 December.

AD&I 2: 2-3 December 2009 (DESY)

AAP Review #2: 6-8 January 2010 (Oxford)

GDE meeting: 26-30 March 2010 (Beijing)

TTC: 19-22 April 2010 (FNAL)

IPAC: 24-28 May 2010 (Kyoto)