

## ***Draft: Minutes of ML-SCRF Technology Meeting (100507)***

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### **Date & Time:**

13:03-14:00 GMT, May 7, 2010, via Webex.

### **Participants:**

H. Hayano, N. Ohuchi, C. Nantista, A. Yamamoto, W. Bialowons, N. Toge, T. Shidara, C. Pagani, P. Garbincius, J. Kerby, C. Ginsburg, J. Carwardine.

Presentation files are available at the following Indico site:

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=4582>

### **0) Meeting Announcement**

There was a problem with the email distribution of the meeting announcement to at least Fermilab and JLab personnel. N. Toge quickly fixed this problem after the meeting, but several colleagues were absent due to this.

### **1) Reports from Project Managers**

Akira opened the meeting by informing us of the schedule for the upcoming R&D plan update and the 1<sup>st</sup> Baseline Assessment Workshop (BAW-1) coming up in the fall, before LINAC10. Working backwards for the R&D plan release 5 due date of June 10<sup>th</sup>, writers are asked to have drafts of their sections done by May 27<sup>th</sup>. (Later, the draft due date has been postponed to be June 11 and the R&D Plan release 5 to be due the end of June.) The BAW-1 is actually 4 days of meetings, 2 on RF issues followed by 2 on gradient issues in the week preceding LINAC10. The initial announcement and invite list are being prepared.

The reminder of the dates is listed at the end of these minutes.

### **2) Reports from Group Leaders**

#### **● Cavity Gradient, Cavity Integration, and Cryogenics**

No reports due to email problems and / or holidays.

#### **● Cryomodule**

Norihito Ohuchi reported that Module-A, the second of the two 6m-long cryomodules for S1 Global is complete and in the STF tunnel. Almost all assembly work is completed and the system is on target to be under vacuum this month and cooling down starting 7 June. There will be a more detailed report in the S1 Global webex next week. Participation of personnel from other labs is still desired very much, the schedule has been held so far and labs are asked to consider when people might come to assist in the test program.

#### **● HLRF**

Chris Nantista reported no news from KEK mostly due to the holiday week, but at SLAC the large pipe section is in place and ready to be inspected. The plan is to have power through this sometime this summer. The Toshiba Klystron tests have resumed, there is a 2<sup>nd</sup> harmonics problem that appears to be solved but it is limited to 9MW only. FNAL is visiting to review the cavity coupler assembly process in light of recent alignment issues seen in the HTS assembly at Fermilab.

### **3) Special Reports**

#### **● TDP R&D Plan Update**

Akira presented slides on the upcoming R&D plan. We have been directed to come up with a plan that should get the ILC to the desired TDP conclusions. This led to a discussion of available resources, which it is acknowledged are tight. In particular, for the HLRF schemes there were questions from the PAC about what the advantages of both schemes were, and why both were being pursued. In short there may be a regional preference for the distributed scheme that has effects on the civil design, and for the moment it is too early to decide. However, there are difficulties in generating reliability information (for both designs) such that a comparison can be made.

As far as manpower, it's understood we do not have the manpower right now but at least we should make a very rough plan on how the design would accommodate the backup plan and ensure that the tunnel is appropriate for the layout.

#### **● BAW**

Beyond the topics listed in his slides, Akira mentioned that the operational margin related to the field gradient choice will be included and the issues of conduction cooled SC Quad will be also discussed in this

session.

#### **4) Further Plans and Meetings**

TDP R&D Plan Update draft due May 27

Next ML-SCRF Webex meeting: June 2, 2010, 13:00- GMT.

ILC PAC: May 13-14 (Valencia)

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=4509>

IPAC: May 23-28, 2010 (Kyoto), and a satellite meeting on industrialization on May 23.

<http://ipac10.org/>

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=4530>

Main Linac BAW: September 7-10, 2010 (KEK)

LINAC10: September 13-17, 2010 (Tsukuba)

<http://linac10.j-parc.jp/>