

# DRAFT: Minutes of ML-SCRF Technology Meeting (120530)

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## **Date & Time:**

13:00-14:18 GMT, May 30, 2012, via Webex.

## **Participants:**

R. Geng, C. Ginsburg, H. Hayano, T. Peterson, C. Nantista, S. Fukuda, A. Yamamoto, M. Ross, N. Walker, W. Bialowons, J. Carwardine, B. List, Bob Rimmer, and T. Shidara,

Presentation files are available at the following Indico site:

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=5644>

### **1) Report from Project Managers (Akira Yamamoto, Nick Walker and Marc Ross)**

Akira started by showing the usual SCRF related meeting schedule and expressed his intention to focus on “Central Region Cryogenics Layout” issue, and TDR writing status following.

At KILC12, progress in a cavity production yield was reported, and Akira appreciated the effort done by the Cavity Data group led by C. Ginsburg. Cryogenics related issue, caused by the adoption of two different HLRF systems in TDR, was discussed; Unit length difference and design change for KCS and DKS.

Nick requested the re-naming of RF unit in TDR for two HLRF systems (KCS and DKS); ML unit (3 CM), RF-26 unit for KCS, RF-39 unit for DKS, Cryo short string, Cryo long string; and the attendees agreed to use these definitions in their writing.

Marc explained the PAC summary which is basically positive to our GDE activities, but with some concerns like; R&D support on high-gradient cavities in the US, R&Ds on cavity yield progress and cavity tuner reliabilities.

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

No special reports from GLs, but Hitoshi reported the re-start of the Quantum Beam commissioning in STF from 29 May after reinforcing the radiation shield. They still have a radiation shield difficulty, but they will continue beam tuning, aiming to focus the beam to 10 micrometer level, till 13 July for 7 weeks.

Tom presented the “Central Region Cryogenics Layout” issue. Cryogenics design in the central region is revisited by the layout change as well as by allowing two schemes; KCS/Flat-land and DKS/Mountainous-region. At least, an idea for gathering main compressor systems for various central-region cryogenics has been well received by cryogenics experts, even though their cold boxes should be placed to the nearest locations to the cold systems at Damping Ring, Boosters, Final-focusing Quadrupoles, and Detector Magnets. Details of the central region cryogenics complex will be discussed in the coming cryogenics Webex meeting:

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=5646>

### **3) Technical Design Report**

John Carwardine, lead editor for the TDR, showed the TDR writing status and strongly encouraged the writers to finish the writing not far behind the schedule. John mentioned an upload mechanism on the Forge portal that is quite convenient with useful links and resources for writing together with templates and would be preferable to sending the files. (<http://forge.linearcolider.org/tdr>)

Tom asked where the cryogenics part should go, and Nick commented that “write” first and the editors will manage this issue later.

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

ML-SCRF Webex	27 June
LINAC-2012 (Tel Aviv)	10-14 September
ALCPG-LCWS (U Texas-Arlington)	21-24 October