

DRAFT Minutes of the CLIC meeting of 19.11.2010

Approval of the minutes of the last two meetings:

The minutes of the previous to last meeting had just been put on INDICO. The last meeting's minutes still have to be put on INDICO.

News:

Jean-Pierre informs that the responsibility for the important power consumption study has been taken over from **Karl** by **Jean-Bernard**, as Karl is momentarily focused on the 12 GHz standalone power source. Jean-Pierre thanks Karl for his excellent work.

Roberto announces the latest results from CTF3. Yesterday, the gradient of 100 MV/m was reached in a number of beam pulses. The power signals are internally consistent but in general too high. There is an irregular transverse shape on the accelerated probe beam.

Steinar states that the next phase will not be called TDR phase in the future, the final name will be decided.

Roberto presented the '*CLIC Plans for the next phase*' concentrating on the accelerator part. He recalls the previous plans and the present status. Due to the slower increase in the CLIC budget in the new MTP, the plans have to be re-evaluated. The work plan consists of a project preparation phase from 2011-2016 and a project implementation phase after 2016.

The present RF structure results show the basic feasibility for both accelerating structure and PETS. A higher number of structures (100 normal and 20 alternative accelerating structures, and 20 PETS) need to be built and tested in the next phase. RF test areas at SLAC and KEK have to be maintained and RF test stands at CERN will be built.

The conceptual design of technical systems will be covered for the CDR. R&D and prototyping for the module including alignment, and prototyping for critical systems is foreseen.

Günther asks about possible tests for DR vacuum components. **Yannis** replies that CESR-TA can be used for tests and adds that the DR RF system (coming CLIC meeting) is another item to be studied.

The feasibility demonstration in CTF3 will continue until mid 2011 with a full completion only in 2012. CTF3 is to be used for high-power RF testing and for testing modules. A new drive beam injector facility at nominal CLIC parameters, possibly useful later for CLIC0, is planned. A large photo-injector based injector is presently not funded. **Jean-Pierre** recommends continuing parallel development and **Steffen** comments that some development at a smaller scale can be done.

Daniel comments that cleaning of the satellites should be included, not covered in the present resources.

Consolidation and upgrades (energy, repetition rate), drive-beam phase feed-forward experiments, TBL upgrade and module strings are foreseen for CTF3.

Alexej asks about an upgrade of CALIFES to reach the nominal CLIC current.

Roberto mentions civil engineering and cost studies and CLIC0.

He shows the material budget for the different activities and the overall material budget for the next years. The contributions from the collaboration have to

increase from 20-25% presently to about 1/3 of the total budget to maintain all planned activities. The personnel budget is maintained at the present level despite the larger activities.

Jean-Pierre comments that the collaboration could make up for the missing manpower.

Karl remarks that the French 'white paper' contribution comes to an end.

Steinar suggests discussing the timescale of this plan, as it will be presented in the CDR and needs to be ready by April.

Roberto has started to define workpackages for CTF3 and CTF3+. Collaborators will be able to select packages. **Günther** asks about how to present this to collaborators. Meetings are needed to discuss technical capabilities and on a managerial level. **Daniel** comments that priorities for the workpackages need to be defined.

Hermann has received 5/51 CDR contributions, and 12 drafts that are consultable on the web (<http://project-clic-cdr.web.cern.ch/project-CLIC-CDR/>). He will contact responsible authors to ask about the foreseen delivery date.

Louis reminds that a photo-injector study, for the CLIC Drive Beam, has been already done in the past and might be reused. A summary was published in the CLIC yellow report in 2000.

A.O.B.:

Frank Tecker, 22.11.2010