

# CLIC Technical Committee

1<sup>st</sup> meeting

- The mandate and the objectives
- Proposal for an organization
- Actions

# Mandate CLIC Technical Committee (CTC)

- **General objective:**

Towards a Project Oriented and Cost Conscious CLIC Design in preparation for the Conceptual Design Report to be edited in 2010.

- **Specific responsibility:**

Set-up and keep updated:

- an overall nomenclature of the components of the whole project,
- a complete and coherent CLIC Work Breakdown Structure with components specifications derived from the present design by the Parameters WG
- The related documentation structure integrating a description of all technical components

Review the ensemble of technical equipments in the present CLIC design in terms of:

- Specifications
- Technical feasibility
- Fabrication and prospective in industrialization
- Integration (machine/tunnel)
- Interface with the detectors
- Installation
- Schedule (including fabrication & installation)
- Cost (investment and exploitation)

# Mandate CLIC Technical Committee (CTC) (2)

- In close collaboration with the technical responsables identify technical key issues requiring specific R&D or prototyping in view of the Conceptual Design Report.
- Assess present R&D program and propose prioritized R&D including schedule and milestones on the various systems or components for approval by the CLIC Design & Parameters Committee
- Following a value analysis of individual components or ensemble of components, suggest possible improvements towards global project optimization aiming at a performance to cost and risk ratio as high as possible
- Elaborate for approval by the CLIC Design & Parameters Committee and description in the CLIC Conceptual Design Report:
  - a baseline scenario and schedule including prototyping, fabrication, equipment integration, installation and HW commissioning
  - a CLIC baseline complex
  - possible options for improved performance and/or reduced cost and the corresponding R&D program

## **Organization:**

- Set-up ad-hoc working groups on dedicated subjects and/or integrate existing ones.
- Manage a dedicated web site with links to updated key documentation
- Regularly report to the CLIC Design & Parameters Committee for approval and to the CLIC meeting for information

# Specific responsibility

- *Set-up and keep up-to-date:*
  - *an overall nomenclature of the whole project*
  - *a complete and coherent CLIC Work Breakdown Structure with components specifications derived from the design by the Parameters WG*
  - *the related documentation integrating a description of all technical components*

Put in place a specific Quality Assurance Working Group on a short term basis.

Objective: freeze PBS, WBS, nomenclature, ... end 2010

# Specific responsibility

- *Review the ensemble of technical equipments in terms of:*
  - *Specifications*
  - *Technical feasibility*
  - *Fabrication and prospective in industrialization*
  - *Integration (machine/tunnel)*
  - *Interface with the detectors*
  - *Installation*
  - *Schedule (including fabrication & installation)*
  - *Cost (investment and exploitation)*

# Organization

- *Set-up ad-hoc working groups on dedicated subjects (including already existing ones)*

## Initial list of Working Groups to be discussed (list and domain of competence):

- Injectors
- Machine operation including machine protection, dumps, ...
- Beam instrumentation
- Module including vacuum,...
- Stabilization
- Machine Detector Interfaces
- Tunnels including infrastructures, services, transport,...

# Members

- Hans Braun
- Jean-Pierre Delahaye (ex-officio)
- Gunther Geschonke
- Claude Hauviller (Chairman)
- Thibaut Lefevre
- John Osborne
- Germana Riddone (Scientific Secretary)
- Hermann Schmickler (Deputy Chairman)
- Daniel Schulte
- Sylvain Weisz
- Chairmen of the working groups

# Actions

- Nominate chairmen of WGs
- Actions plan of the WGs to be presented at the next TC
  - Mandate
  - Key dates and related deliverables
- Working methodology of the TC
- Monthly meetings (recurrent date to be fixed)
- Web site: [https://clic-study.web.cern.ch/CLIC-Study/CLIC\\_Technical\\_Cttee/Index.htm](https://clic-study.web.cern.ch/CLIC-Study/CLIC_Technical_Cttee/Index.htm)