

Technical Coordinator of HL-LHC (TC) And the Technical Committee (HLTC)

The TC shall define, with the Project Coordinator, his deputy and the Parameter and Lay-out committee chair, (i.e. based on beam parameter requirements or based on already existing technical specifications) the technical baseline of the project. The TC will shall form and lead a Technical committee (HLTC) that will assess all the various technical systems proposed for the upgrade, their impact on machine performance and on machine availability and reliability and have technical solutions developed by the various expert teams.

The HLTC shall be responsible for the creation of a complete set of technical and managerial documentation for the project, which will follow the document tree established for the LHC project. This comprises the definition of the project breakdown structure (PBS), which contains all kind of technical documentation concerning functional specifications (FS), engineering specifications (ES), the layout, quality assurance plan (QAP) and documents for tracking changes (Engineering change request (ECR)).

Part of the technical mandate is also the coordination of various studies and developments in order to handle highly radio-activated areas and components: define a global plan, harmonize the various programs already going on, assure a coherent cost-effective approach, and promote the development of new techniques of remote manipulation and remote supervision/control. Assure the necessary link to the Safety Unit.

The HLTC shall define and follow-up the technical work in the various teams including external collaborations or industrial outsourcing.

The HLTC shall assist the Project Coordinator and his deputy in evaluating an overall resource plan, M+P, of the technical systems and making the optimization. This resource plan (WBS) shall be documented with the standard CERN tools.

The HLTC shall represent the project outside CERN to find support and organize these additional resources (in coordination with WP leaders).

The HLTC reports to the project steering committee.