

Internal review of DFH conceptual design

Date: 15th November 2019

Reviewers: M. Modena (chair), D. Bozzini, K. Brodzinski, D. Perini, F. M. Rodriguez

Scope: review the conceptual design of the DFH with the purpose of validating maturity for starting detailed design development.

Mandate of the review committee:

- 1) Review the functionality and confirm its completeness in terms of cryogenic, mechanical and electrical requirements and interfaces including operational aspects;
- 2) Review the preliminary layout and installation plan in the LHC machine and the compatibility of the DFH location wrt the tunnel environment;
- 3) Review cryogenic requirements for safety aspects and compatibility of safety equipment with tunnel environment;
- 4) Review plan for detailed design development and prototype production.

Timetable (5 min for questions included in each talk)

8:30-8:40 Welcome (Lucio)

8:40-9:10 Conceptual design (A. Ballarino)

9:10-9:40 3D Design and assembly sequence (J. Fleiter)

9:40-10:00 Instrumentation requirements (J. Fleiter)

10:00-10:20 **Coffee break**

10:20-10:40 Concept for electrical connection of RT power cables in the UR galleries (S. Yammine)

10:40-11:00 Transport of DFH from the surface to the LHC underground areas (C. Bertone)

11:00-11:20 Future milestones, plan for detailed drawings and preliminary production schedule (P. Cruikshank)

11:20-11:40 Cryogenic safety (V. Parma, Th. Otto)

11:40-12:00 Questions/clarifications (All)