

TREX MANDATE

- The working group facilitates the collaboration between the LHC experiments and the ATS sector by collecting, reviewing, and following requirements related to: the activities in the LSS of the LHC (including the TAN absorbers), machine to experiment areas interface regions (Q1 to UX, including the TAS absorbers); and the activities affecting mutual interface between the machine and experiment within the UXC (experimental beam vacuum system).
- The main objective of the working group is to facilitate collaboration between the LHC experiments and the ATS sector in regard of the above.

In particular, TREX will:

- Facilitate and coordinate inclusion of the experimental requests into the ATS activity planning structure. This includes processing and mediating of the individual work tasks related to the experimental requests to the LHC machine coordination, integration, system and equipment owners and affected mutual interfaces.
- Call for the regular status reviews of the individual experiments/projects covered by the mandate of the working group.
- Scrutinize, follow-up and review the activities related to consolidation and upgrade of experimental vacuum system of the LHC machine. This includes compatibility checks for the mechanical aperture, impedance, vacuum, alignment, and all present mutual interfaces.
- The working group shall be responsible for HL-LHC related compatibility checks. The working group should interface with the HL-LHC project WP's to ensure the impact on machine and experiment performance is properly evaluated. Where the equipment is to be installed before LS3, the needs for compatibility checks pertinent to Run 3 and Run 4 shall be presented to the corresponding teams. Results of these checks should be then communicated via the working group accordingly to the reporting line.

Validity of this mandate covers period of the Long Shutdown 2, Run 3, Long Shutdown 3 and will be revisited by ATS sector before the Run 4.

Reporting line: LMC, HL-LHC CG.