East Area Renovation Project: Gas Systems

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East Hall under construction - 1962
Index

1. Situation before LS2
2. Work foreseen during LS2

This presentation is a summary of the following documentation:
- EDMS: Gaz requirements from experiments in the East Area
  by Henric Wilkens, David Jaillet, Erwan Harrouch
  https://edms.cern.ch/document/1907906/1.0
- EDMS: Renovation of the gas distribution of the East area
  by David Jaillet
  https://edms.cern.ch/document/1907011
Situation before LS2

• The East Area is supplied by a mixing areas and gas piping network coming from a dedicated gases supply building located outside b. 157.
The content of gas supply building located outside will be dismantled. The building will be equipped with new gas supply components with remote monitoring as well as purge system with the possibility to recover Green House Gases (GHG).
Work foreseen during LS2

- The mixing panels allow the users mix all the gases provided by the gas supply building with control on the pressure and flow,
- A dedicated rack will supply the 4 Cerenkov in the experimental areas (Ar, CO₂, optional refrigerant gases).
Organisation and planning

• Gas building (EN-EA):
  • Dismantling : Jul 2020 – Aug 2020
  • Installation : Aug 2020 – Oct 2020

• Mixing area (EN-EA):
  • Dismantling : Done
  • Installation : Oct 2020

• Gas Safety systems installation (Flammable gas safety file: Gas Barrack and Mixing Area after LS2 (Bt.157) https://edms.cern.ch/document/1909603)
  • Gas detection systems (BE-ICS) – Installation : Jan 2021
  • ATEX ventilation (EN-CV) - Installation : Nov 2020

E. Harrouch, 10-05-2019
Thanks for your attention!