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GENERAL CRYOGENIC MAINTENANCE POLICY AND RECENT UPDATE FOR CERN ASSETS

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Cryogenics system are considered major and critical equipment for the LHC accelerator and its detectors, as interruption of refrigeration capacity has direct impact on physics data taking.
During the 2015-2018 operational phase RUN2, one key element for optimizing reliability was the application of the appropriate Predictive, Preventive and Corrective maintenance policy for highly complex installations, at all stages of their lifecycle.
Lessons learned after the first Long Shut down LS1 in 2013-2014 has allowed to develop, optimise and implement the tools and methods in order to be ready for the second challenge of a major maintenance long shutdown LS2 scheduled in 2019-2020.
This presentation will introduce the feedback of the preventive maintenance tasks carried out on the cryogenics installations during LS1, the availability results achieved during RUN 2, and the evolution of maintenance plans, spare parts strategies and methodologies.

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