

CRYOGENICS

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Abstract

LS1 allowed for maintenance, upgrade and necessary repairs on the LHC cryogenic installation focusing on preparation for post LS1 accelerator run. In order to provide required cooling power, configuration of the cryo-plants for Run2 will be set differently than for Run1, the available margins will change. The constraints imposed by beam-induced heating during scrubbing run or normal Run2 have been analyzed.

In case of installation failures, the critical spare components management will allow for direct replacement of faulty elements of the installation in most adapted time. The mitigation of failures can be also done by cryogenic plants reconfiguration, in some cases with impact on LHC beam operation scenarios.

The status of post LS1 cool down will be presented.