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Magnets Cold Tests and Throughput

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The Testing Facility in SM18 has a test programme destined to verify the electrical, cryogenic and quench performance of the magnets for machine operating conditions as well as providing a sampled field quality evaluation. From the magnet production and delivery points of views the test programme is used to monitor the overall magnet manufacturing quality. Given the environment and present limits of the Testing Facility, these different objectives impose somewhat conflicting requirements on the SM18 operation. LHC beam quality requirements may also necessitate more sampling and longer, additional magnetic measurements. In addition, the fixed machine installation completion date, the compressed schedule and a parallelised installation process will potentially require a higher supply rate of tested magnets or of specific types than presently achieved. The talk will discuss the SM18 environment and its limits and give an overview of magnet testing throughput based on current experience and results.

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