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Powering of the SC circuits: procedures and strategies for circuit validation

Tuesday 16 January 2007 14:00 (30 minutes)

The commissioning of the warm part of the superconducting circuits of the LHC started in 2005 with the short-circuit tests of the power converters where the non-superconducting elements of the circuits are being commissioned together with their associated general services.

Once the circuits are at their operation temperature and before powering them, the interlock system will be validated (PIC tests).

The overall commissioning of the superconducting circuits will start in February 2007 with the first powering up to nominal current of all the magnets in Sector 7-8.

This talk will introduce the sequence of steps and detailed procedures which lead to the powering of the different superconducting circuit types, the powering strategies designed to be ready for 450GeV beam commissioning on schedule and the needs of the hardware commissioning team for diagnostics and to ensure the integrity of the hardware.

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