

Power converters and DC cables

Thursday 12 May 2005 14:45 (30 minutes)

The main topic of this talk is the validation of the warm part of the electrical circuit (power converters and DC cables) before powering tests with the magnets. In the first part, reception tests and installation of equipments are presented: reception tests of power converters in surface halls, installation of the power converters, installation and initial tests of the DC cables. Then the short-circuits tests are explained and justified: why to do these tests, which tests are requested, initial conditions for these tests, time duration and human resources, what is the impact if some tests are suppressed? Finally, the special tests during the powering tests with the magnets are presented and discussed: current loops setting, first powering of the dipole magnets and Inner Triplet circuits, calibration of the high precision circuits.

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Session Classification: Electrical circuits and magnets (warm and cold) (cont)