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## The safety electrical networks at CERN

*Monday 22 January 2007 10:45 (30 minutes)*

In introduction, the four levels of availability of the CERN electrical supply will be explained. The presentation will then focus on the diesel-generator assured and safety networks, describing the tasks fulfilled by these networks, the types of load connected, the autonomy available, the philosophy chosen for each site (Meyrin, SPS with North Area and CNGS, LHC) and the corresponding power balance. The periodic maintenance program and tests carried out will be addressed followed by the results of the 4th of December test. Finally, an upgrade program proposed for the assured and safety networks will be introduced.

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