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PS MAIN POWER SYSTEM: What has been done from June 2006? What will be the situation in 2007?

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The PS main magnets are fed by a very special power system including a 90MVA rotating machine in operation since 1968. In 2004, an earth fault appeared on the generator rotor and the spare rotor had to be installed. The machine was stopped during six weeks in 2006 to replace again the rotor, suffering of insulation problems.

The presentation will show the actions taken to reduce the fatigue of the rotating machine, the test results of the back-up system up to 26GeV for LHC physics and the different scenarios in case of breakdown. The project for a new power system will be presented with a provisional planning.

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