

Tuesday 22nd January 2008

MTTR & Spare Policy for the LHC injectors & experimental areas:
AT & IT Groups

15:00-15:30

Marco Buzio: Magnetic field control (B-trains)

After a brief overview of the different B-train systems in use (Booster, PS, SPS, LEIR, AD) and their main features, the presentation is focused on reliability issues. Recent faults are reviewed, along with the corrective actions undertaken, and the risks for operations in 2008 are estimated in terms of lost beam time. In particular, the present and future availability of spare instrumentation, acquisition and interface components is addressed. The procedures established to switch rapidly onto redundant or synthetic B-trains are then recalled, together with the agreed attribution of responsibilities for what concerns first-line (piquet) and repair interventions. To conclude, some planned improvements to performance and reliability such as modernization and uniformization of electronics, new magnetic sensors and enhanced remote diagnostics are discussed.