

Wednesday 23rd January 2008

MTTR & Spare Parts Policy for the LHC injectors, experimental areas and other facilities: AB Groups

14:30-15:00

Jocelyn Tan: MTTR, spare parts and stand-by policy for BI equipments

The Beam Instrumentation Group is responsible for a large variety of monitors which serve for diagnostics, controls feedback and machine protection of CERN accelerator facilities.

This talk will first review the instruments of the LHC injector chain where critical elements, capable of interrupting the beam, will be spotted as well as intercepting devices. Instruments for diagnostics purposes, with lower potential risk for the LHC run will be discussed after this.

The last part will be devoted to the Experimental Areas and facilities, which in case of failure will have a negative effect on the running of experiments but will not interrupt accelerator operation.

For each topic, the MTTR, status and policies of spare parts will be presented. Only vacuum problems on the sensors may potentially result several days of machine interruption. This holds in particular for delicate ceramics used e.g. for current transformers. However such an incident has never occurred outside installation periods or during mechanical interventions on the machine or vacuum bake-out.