

Wednesday 23rd January 2008

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

17:00-17:30

E. Jensen: MTTR, spare parts and stand-by policy for RF equipments

The RF group is responsible for low-level RF systems, servo-loops and control interfaces, RF amplifier chains, accelerating structures (cavities) and the tuning supplies for ferrite systems. Since a failure of any of these systems has a strong impact on operation (normally the accelerator will not be useable), spare parts (including power grid tubes) or spare sub-systems are in general kept in sufficient quantities to minimize down-time (MTTR); for some systems this is achieved using “hot spares”. We will – system by system – identify those sub-systems which bare a risk of long MTTR, weighted by their impact on beam-users, and present our approach of how to mitigate this risk. We will also address the case of two subsequent failures, which can have drastic consequences. We will present our stand-by organisation and identify where it can be improved.