

Tuesday 22nd January 2008

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

16:00-16:30

Jose Miguel Jimenez: Vacuum system of the LHC injectors and beam transfer lines

The reliability of the beam vacuum in the LHC injectors & beam transfer lines is essential for the optimal operation of the accelerators. The degradation of the vacuum performance results from problems occurring during the operation with beam, e.g. beam losses or beam impacts on the vacuum chambers, from degradation of vacuum components due to humidity and radiation dose, e.g. corrosion of bellows and feed throughs, damage to the sector valves switches, and from vacuum instrumentation failures.

The AT-VAC spare policy will be explained together with estimations of the expected probability of downtime to the accelerators. Then, machine by machine, an extensive review of the critical vacuum components, instrumentation and controls will be made and corrective actions whenever required will be proposed.

The organization of the vacuum “piquet” service will also be explained.