

LBDS and abort gap cleaning

Wednesday 8 December 2010 14:15 (15 minutes)

A number of possible failure scenarios and estimated occurrence were defined for the LHC Beam Dump System (LBDS). An analysis of the LBDS performance during the first year of the LHC operation is presented and compared with respect to requirements and expectations. Several qualification tests have been regularly performed to assess the protection provided by the system in the eventuality of a failure. Possible hardware upgrades and improvements of machine protection test and operation procedures are explored. Abort gap cleaning deployment, related diagnostic and interlocking are discussed.

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Session Classification: Session 4: Machine Protection systems