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LBDS and Injection Protection

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<B>20’ + 10’</B>

<P>The most critical failure scenarios for LHC machine protection concern the injection and dump systems. In view of operation at higher energy and intensity and in light of the experience gained during Run 1, several upgrades were put in place to further enhance the reliability of these systems. Changes were applied both to the protection elements and the kickers (magnets, related electronics, powering systems and interlock logic). The effective performance of the injection and extraction systems and the impact on operation and machine availability are reviewed with respect to forecasts. Extrapolations to operation at 7 TeV and further increased intensity are drawn.</P>

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Session Classification: Sessions 3 & 4: LHC Hardware Performance

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