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# Beam Dumping system - failure scenarios

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A failure of the LHC Beam Dumping System could have a serious negative impact on the performance of the LHC machine. The failure modes of the Beam Dumping System are presented, together with the expected occurrence rate and possible consequences. For the Beam Dumping System failures that are expected to occur during the LHC lifetime, the functionality and implementation of the foreseen dedicated protection devices and protection systems are described, together with the required performance. Analysis results for the most serious cases are presented. Finally, the requirements placed on settings for the movable protection devices with respect to the beam are highlighted.

**Author:** Dr GODDARD, Brennan (CERN)

**Presenter:** Dr GODDARD, Brennan (CERN)

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