

# What are the issues with injecting unsafe beam into the LHC ?

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Nominal LHC operation foresees to inject four batches of 72 bunches at the time. Injection of up to 32 bunches per batch has been tested in 2010 and possible intensity limitation and machine protection issues have been highlighted, in view of 2011 run. Beam leakage at LHCb and ALICE during injection and qualification of the provided protection are evaluated. Encountered and potential failures of the injection system are presented together with existing and required redundancy of the injection interlocks. Possible modifications of injection procedure and implication for filling schemes are discussed.

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