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Beam quality checks at injection

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For each beam injection into the LHC a well-defined series of beam quality checks needs to be made, starting in the SPS just before extraction and in the LHC immediately after injection. These checks will be dependent on the beam type, intensity and position in the filling sequence, and will use transient data which must be acquired and analysed at the appropriate time and within a specified time window. The requirements in terms of functionality, response times and scope are described, and the equipment subsystems identified. Potential issues are discussed.

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