

Machine protection backbone

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Abstract:

The LHC Machine Protection System needs to adapt to the Run2 operational requirements. In addition, important upgrades and consolidations have been implemented on the MPS backbone during the first long shutdown. This paper summarizes the changes affecting Safe Machine Parameter System (SMP), Beam Interlock System (BIS), Powering Interlock System (PIC), Quench Protection System and Software Interlock System (SIS).