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# Machine protection and LHC controls

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The critical components and interfaces of the machine protection system will not depend on the control system per se. However, controls are implicated in a number of areas. These include pre- and post operation checks, the need for efficient and accurate post-mortem analysis, and the need to maintain secure equipment settings which could vary with the beam energy and intensity. Other potential areas with implications for the control system include protection against false manipulations and software interlocks.

The various areas in which the control system is implicated are enumerated, and the importance of each evaluated. Possible implementations are suggested where appropriate; the areas requiring further attention are high-lighted.

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