

ESS Machine Protection System Lattice Simulator for Use Cases

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The ESS machine being still under construction, Machine Protection at ESS needs to foresee a maximum of scenarios of what could happen in the machine and how the protection systems should react. These scenarios are discussed through Use Cases, which are difficult to manage because of the complexity of the dependencies between the systems involved. To cover this complexity, a part of the Use Case needs to be automatized by software programming. This document describes the Simulator, program taking as inputs the events happening on the machine, calculating and displaying the consequences on all systems modeled, and generating Use Cases reports to be interpreted and validated by the Machine Protection team.

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