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Commissioning and (early) operation - view from machine protection

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Before first beam is injected into LHC, the large part of the protection systems that does not require beam for commissioning will already have been formally validated. Some systems require to be commissioned with beam at the start of beam operation. With increasing stored energy, increased performance of some protection systems is required, and also additional systems must be commissioned. It is proposed to define operational stages with limits on the stored beam energy. An increase of the stored energy, either by filling more beam, or by increasing the maximum energy, requires formal validation of the protection systems that are required for the next stage of operation, and an agreement between operation and machine protection experts to go on. This presentation discusses the general strategy. The detailed requirements are discussed in the following presentations.

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