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High Availability at ESS: Lessons Learned During the Design Phase

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The European Spallation Source ERIC is currently under construction in Lund, Sweden. One of the main requirements for this facility is to have high operational availability in order to compete with the highly reliable performance of the nuclear reactors that it is intended to replace. During the last years, the design of the different subsystems has been crystallising and going through design reviews, prototyping, tests, etc. These subsystems are now in different states depending on their installation schedule, but the design, construction and installation steps are rapidly advancing. During this process, the dependability aspects (Reliability, availability, maintainability, inspectability...) have been analysed and discussed and, in some cases, the outcome of those studies led to changes in the systems. The process, the main outcome of the analyses and finally the lessons learned during this process will be presented in this contribution.

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