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## Machine Protection Analysis for Increased Availability at ESS

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The machine protection strategy at ESS is an important component in reaching the high availability goals of the facility. Machine protection at ESS follows a holistic functional protection lifecycle to define, analyze, implement, monitor, and adjust the different protection-related systems at the appropriate stage. One key pillar in this lifecycle is the fit-for-purpose protection analysis during the ESS design phase. This contribution describes this analysis process, defines its role in the functional protection lifecycle, and ties it to the ESS reliability and availability goals.

**Author:** ANDERSSON, Riccard (European Spallation Source, Lund, Sweden)

**Co-authors:** Ms KÖVECSES, Szandra (European Spallation Source, Lund, Sweden); BARGALLÓ, Enric (European Spallation Source, Lund, Sweden); NORDT, Annika (European Spallation Source, Lund, Sweden)

**Presenter:** ANDERSSON, Riccard (European Spallation Source, Lund, Sweden)

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