

## Electrical design, installation and commissioning

*Tuesday, 12 November 2019 10:30 (1h 30m)*

Modular design to enhance flexibility to cope with changes both in regards of permanent devices but also change of strategies for installations. I will show how we have implemented this concept into our design for machine protection at ESS and perhaps there are other people with similar experience who can add value to our upcoming design phases. At the moment we are building and installing the first systems for the first sections (Ion Source, LEBT, RFQ and DTL) of the accelerator.

Small installation and testing scopes to be flexible for changes of sequence or delays of equipment dependent on other stakeholders.

Asset management tool to keep track on maintenance intervals, spare parts in stock and versions of firmware for PLC equipment etc.

Functional breakdown in regards of naming, tagging and labeling of both functions/equipment but also assets. In some accelerator facilities there seems to be a different attitude towards a standardized naming/tagging than what people from industries and nuclear power plants are used to. I will try to highlight benefits of good naming/tagging/labeling in regards of future and perhaps also centralized commissioning and maintenance.

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**Session Classification:** Poster Session