

SAFETY ANALYSIS REPORTS

ES-konsult works with safety analysis reports

ES-konsult has great experience in producing, updating and reviewing all parts of the nuclear power plant's safety Analysis Reports. Safety Analysis Report is the report that the nuclear power plants are demonstrating to the public and the authorities that the reactor safety is complied with the existing laws.

The Safety Analysis Report of a nuclear power plant includes mainly of a general part and a system part. The general part describes how the plant is built to meet the demands and how the plant responds to potential incidents. The system part describes the safety and operating systems that a nuclear power plant consists of. To assure operating the plant safely, there are "Säkerhetstekniska driftföresättningar" (STF), Technical Specifications, for all safety components that have to be in operation, along with the parameters that they must maintain.

Working with Safety Analysis Report

In connection to large projects such as power uprate or modernization, all concerned analyses are updated to assure that it is valid for the "new" plant. This also implies that the Safety Analysis Reports must be updated in order to describe the plant correctly. Hence, working with Safety Analysis Report implies the following tasks:

- Apply the existing analyses within the Safety Analysis Report for providing to operate the plant safely both during normal operating conditions as well as during plant modifications.
- Maintain and update the existing Safety Analysis Report
- Interpret and implement laws and regulations as well as relevant guides and standards within Reactor Safety
- Manage projects related to Safety Analysis Report

Examples of performed work:

- Updating System Description of Safety Analysis Report of Oskarhamn 3 NPP, within the project PULS, Power uprate of Oskarhamn 3 NPP
- Updating (STF), Technical Specifications, for Ringhals 1 NPP, due to the modernization projects RPS and SP2
- Updating the general part of Safety Analysis Report of Ringhals 3, 4 NPP due to the project GREAT and FREJ, Power uprate of Ringhals 3,4 NPP
- Updating PSA, Probabilistic Safety Analysis, for Ringhals 4 NPP due to FREJ project, Power uprate of Ringhals 4 NPP
- Updating System Description of Safety Analysis Report of Oskarshamn 2 NPP due to modernization and power uprate project, PLEX
- Review and updating of Safety Analysis Report of Oskarshamn 1, 2, 3 NPP

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