

Nuclear portfolio activities 2019



Concrete

Strål
säkerhets
myndigheten
Swedish Radiation Safety Authority



GINO

Strål
säkerhets
myndigheten
Swedish Radiation Safety Authority



Strategic Monit.



SAMPO

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säkerhets
myndigheten
Swedish Radiation Safety Authority



ENSRIC

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säkerhets
myndigheten
Swedish Radiation Safety Authority



Digitalization in nuclear



Vibrations



BREDA

GINO – Grid Interference on Nuclear power plant Operations

- Vision: The external grid should not cause any unforeseen impact on systems or functions causing interruption in any plant state
- Focus areas:
 - External grid effects on components
 - Replacement strategies
 - Design principles
- Steering group includes regulator SSM and TSO SvK
- Examples of activities:
 - Developing a toolbox of mitigating actions and robust designs
 - Reactive power exchange between the transmission system and Ringhals
- Ongoing review of GINO



Photo: OKG

Stakeholders:

VATTENFALL



**uni
per**

TVO

fortum



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säkerhets
myndigheten**

Swedish Radiation Safety Authority



ENERGI
karlstadsenergi.se



**Skellefteå
Kraft**



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