State of the Art Workshop "Procedures currently applied to the integrity assessment of RPVs subjected to PTS loading" (online/onsite)

Tuesday 29 March 2022 - Friday 1 April 2022

PSI Auditorium

Scientific Programme

Day 1

Session: Introduction to PTS
Brief introduction to PTS
RPV material properties and degradation I
RPV material properties and degradation II
Good practice in ageing management for NPPs
Ageing management focused on RPV materials

Session: State of the art for thermal-hydraulic (TH) analysis
Thermal-hydraulic phenomena relevant for PTS
Thermal-hydraulic analysis of PTS transients
Uncertainties in thermal-hydraulics
State-of-the-art for the thermal-hydraulic (TH) analysis

Session: Identification of further LTO improvements having an impact on PTS and selection for assessment
LTO improvements for NPP

Day 2

Session: State of the art for weld residual stress (WRS)

State-of-the-art for weld residual stress – APAL's review

Weld residual stresses in integrity assessment

Session: State-of-the-art for warm pre-stress (WPS)
Warm pre-stress in integrity assessment
State-of-the-art for warm pre-stress – APAL's review

Session: State of the art of probabilistic PST analysis and relevant statistical tools
Probabilistic PTS - Brief Introduction
Probabilistic fracture mechanics analysis and statistical models
Uncertainty in probabilistic fracture mechanics and margin assessment
State-of-the-art of probabilistic PTS analysis – APAL's review