End user workshop: Towards the definition on best practice for advanced PTS analysis for integrity assessment of RPV



Tuesday 14 May 2024 - Wednesday 15 May 2024 Warsaw University of Technology

Scientific Programme

Day 1 Welcome and registration Session 1. RPV Integrity Studies. Topics include: Description of APAL Residual stress (RS) consideration in the analysis Warm pre-stress (WPS) approach applied in PTS LTO improvements relevant for PTS analysis Session 2: Selection of overcooling sequences. Topics include: General considerations Precursors Categorization of sequences of initiating events and corresponding criteria Initiating events groups Session 3: Thermal hydraulic analyses. Topics include: Introduction to thermal hydraulic analysis for PTS evaluation State of the art for thermal hydraulic analysis Computer codes and models Dealing with uncertainties in PTS analysis Example of conservative TH analysis for PTS Example of BEPU for PTS Day 2 Session 4: Deterministic Pressurized Thermal Shock analysis in Nuclear Power Plant. Topics include: Temperature and stress field calculations Crack tip loading Integrity assessment Session 5: Probabilistic Pressurized Thermal Shock analysis in Nuclear Power Plant. Topics include: Temperature and stress field calculations Crack tip loading Integrity assessment Session 6: Analysis of nozzles. Topics include: Governing transients Postulated defect location Temperature and stress field KI estimation methods and integrity assessment NOTE: The detailed agenda of the workshop will be available soon and could be subjected to changes