EU Training Course on “NPP Mechanical structures & seismic safety”	
Duration	1 Week
Content	The training course will provide a comprehensive description of approaches and methods for structural analysis of mechanical components and systems in a NPP. It will cover: - Description of current available NPP technology and their basic conception and design requirements for mechanical structures, piping system and main components covering: primary and secondary circuit operational conditions and layout; - Safety classification; seismic classification; plant design conditions, service levels and margins, design basis transients and accidents; design basis earthquake, floor response spectra, requirements of ASME code for piping and pipe restraints, types of supports and restraints and related requirements, introduction to LBB application and related leak detection systems, etc... The course will present the available computer codes for licensing review and independent assessment. Attention will be given to seismic design, seismic analysis and seismic qualification. Objective and requirements for in service inspections will be presented together with the regulator oversight (inspections) of safety classified mechanical and civil structures. EU approach and content of a SAR for mechanical systems and components and related safety analyses will be presented and discussed. Practical cases and examples will be elaborated.
Achievements	The attendees will attain, or improve, the knowledge, and learning of key aspects, related to mechanical systems and equipment safe design, methods, available codes, application for computational analysis and specific key safety issues.