

EU Training Course on “NPP civil structures requirements & seismic safety”

Duration	1 Week
Content	<p>The training course will provide a comprehensive description of approaches and methods for structural analysis in a NPP. It will cover:</p> <p>Description of current available technology for civil structure in NPP, main structures and buildings, functions and requirements for NPP Civil structure design, seismic design and seismic margins, containment structure requirements. Safety functions of civil structures under different loading conditions and associated admissible limits for the response of the structure.</p> <p>Analysis of the behaviour of civil structures under specific loading conditions and load combinations. Concrete and reinforced concrete structures. Behaviour of concrete structures and foundation problems. Geotechnical aspects, soil-structure interaction. Classification of loading conditions and related requirements.</p> <p>Design basis and requirements of civil structures and buildings to internal loads and environmental conditions will be including with particular focus on the reactor building and its containment function.</p> <p>The course will present the available computer codes for licensing review and independent assessment.</p> <p>Attention will be given to seismic design, seismic analysis and seismic qualification.</p> <p>Objective and requirements for in service inspections will be presented together with the regulator oversight (inspections) of safety classified mechanical and civil structures.</p> <p>EU approach and content of a SAR for civil structures sand related safety analyses will be presented and discussed. Practical cases and examples will be elaborated.</p>
Achievements	<p>The attendees will attain, or improve, the knowledge, and learning of key aspects, related to civil structures, methods, available codes, application for computational analysis and specific key safety issues.</p>