



INSC Project MC.03/10
EC Contract N°2011/261-585 - LOT 1

**Training Course on “ Requirements and safety evaluation of PSA for NPP”
c/o JSI - Ljubljana May 20-24, 2013**

draft

Monday	Tuesday	Wednesday	Thursday	Friday
<ul style="list-style-type: none"> - Welcome - Organizational aspects - Training objective - Training program - EU infrastructure for Radiation Protection and Nuclear Safety - Role, functions and responsibilities of the nuclear regulatory authority- - Deterministic and probabilistic safety objectives and requirements for NPP 	<p>Initiating event identification, grouping of initiating events-</p> <p>Event tree development, safety functions, frontline and support systems-</p> <p>Success criteria and use of conservative and best estimate analyses</p>	<p>Data bases-Aposs</p> <p>Sequence binning , quantification and minimal cut-sets-Aposs</p> <p>QA aspects for development of PSA-Aposs</p> <p>Analysis of results of PSA, Importance, sensitivity and uncertainty analysis-Aposs</p>	<p>External Events Risk Analysis-Aposs</p> <p>Seismic PSA (Seismic Risk Assessment, Seismic Fragility Evaluation, Plant System and Sequence Analysis) -Aposs</p> <p>PSA for Low-Power and Shutdown conditions-Aposs</p> <p>Operating Experience Analysis, Configuration Risk Management (Maintenance optimization)</p>	<p>International standards, references and guidance's for PSA</p> <p>Regulatory requirements for PSA, regulatory use of PSA for decision making-</p> <p>Regulatory review of PSA</p> <p>Risk informed decision making (description with application example)</p>
Lunch	Lunch	Lunch	Lunch	Lunch
<p>PSA Objectives and levels of risk assessment, basic concepts of PSA versus DSA</p> <p>Fundamentals of probabilistic theory and rules (basic definitions and probability concepts</p> <p>Methodological requirements and references for PSA (level 1 PSA structure & content)</p>	<p>Systems analysis and Fault Tree development-</p> <p>Modeling of common cause failure</p> <p>Modeling of human reliability-</p>	<p align="center">- Practical application</p> <p align="center"><i>To be defined</i></p> <p align="center"><i>Fault tree analysis-</i></p>	<p align="center">- Practical application</p> <p align="center"><i>To be defined</i></p> <p align="center"><i>Event tree analysis-</i></p>	<ul style="list-style-type: none"> - Course summary - Course questionnaire - Opinion from trainees - Training Minutes