

**TRAINING COURSE
 “ NPP CONCEPTUAL DESIGN SAFETY REVIEW ”**

DRAFT CARD

<p>Course Objective: To provide basic training on the regulatory capability to establish safety objectives and criteria for NPP, and to perform a preliminary safety evaluation of the “conceptual design” of a NPP at integrated level</p>	
<p>Duration: one - two weeks</p>	
CONTENT	
Introduction to Nuclear Power Plants	Short description of current available technology and their basic conception
NRA role and function	Short introduction of the NRA role and functions and internal organization for NPP Conceptual Design Safety Review. Use and management of external support.
Safety objectives & criteria for NPP	Definition of Safety Objectives and criteria for NPP. Regulatory approach for review of Safety objectives & criteria for NPP: deterministic and probabilistic safety objectives
Documentation to be submitted for review	PSAR or equivalent safety analysis report. Structure and content requirements
Referenced safety objectives and standards	Identification and review of PSAR safety objectives and referenced safety principles, criteria and requirements.
NPP Safety functions	Safety functions and related frontline and support systems and components
Safety Classification of SSC	Review of Identification of list of safety related “parts” of the NPP
Design safety conception for internal plant events	Evaluation of design safety conception for internal plant and area events (reference standards, defence in depth, independence, diversity, redundancy
Design safety conception with respect to external natural and non-natural events	Evaluation of safety conception with respect to external natural and non-natural events (reference standards, defense in depth, independence, diversity, redundancy
Design provisions for severe accidents	Evaluation of safety conception with respect to severe accidents, ..)
Use of PSA	Use of PSA to have an integrated view of the NPP conceptual design and to identify weak points to be improved in the design.
