INSC Project MC.03/10 - EC Contract N°2011/261-58 5 - **LOT 1**

Training Course - '' Safety evaluation of SAR and oversight for RR''

JSI - Ljubljana 2-6 September 2013

Monday (8.30- 17.30)	Tuesday (8.45 – 17.30)	Wednesday (8.45 – 17.30)	Thursday (8.45 – 17.30)	Friday (8.45 – 17.30)
Welcome **JSI** Organizational aspects Training objective Training program	Licensing process and steps for Research Reactors, periodic safety review and regulatory oversight	Core analysis and instrumentation for Research Reactors	Safety assessment, safety analysis, categorisation of modifications Graded approach	NRA organization to address and perform a regulatory review of SAR, Key aspects of NRA review of SAR for RR and use of PSA-
EU Framework for nuclear safety and radiation protection	SAR for Research Reactors (objectives and content)	Design basis events, Aaccident analysis for RR and consideration of SA in the design	Radiological impact in normal operation and accident radiological consequences	NRA inspection activity during licensing and operation of a RR -)
Regulatory approach to define safety objectives & requirements for nuclear facilities (including RR)	Siting of RR and protection from external events (natural and non natural	Technical Specifications for operation of RR –	Emergency preparedness	Regulatory Interface with the licensee during licensing and use of TSO support for SAR review
Lunch (12.30 – 13.30)	**Lunch (12.30 – 13.30)**	**Lunch (12.30 – 13.30)**	**Lunch (12.30 – 13.30)**	**Lunch (12.30 – 13.30)**
Typical Research Reactors –	Safety conception of RR -	Walk-down to the JSI TRIGA Mark II reactor (layout, characteristics,, experimental facilities/capabilities, experiments under way) Demonstration of one exercise with the RR followed by a discussion.	Practical application of the safety assessment on an experiment (void coefficient) including performing this experiment at the reactor	- Course summary - Course questionnaire - Opinion from trainees - Training Minutes
IAEA Requirements for RR including Code of Conduct for RR	Safety principles (Defence in depth) , safety requirements and safety systems -			
Relevant national legislation and international obligations	Safety Classifications of SSC and requirements for redundancy, independence, diversity			