



INSC Project MC3.01/13

EC Contract N° NSI/2014/343-969

“Training and Tutoring for experts of the NRAs and their TSOs for developing or strengthening their regulatory and technical capabilities”

Training Course

on

NPP siting regulatory requirements & licensing

organized by ITER-Consult

Roma – October 2nd – 6th, 2017

Hotel Caravel - Via Cristoforo Colombo, 124

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Course Objective

The course will provide a comprehensive presentation of required site safety analyses and their logical progressive steps starting from the preliminary survey of potential sites, consequent screening phases and final selection.

The course will present and discuss the major site events (natural and non) to be analyzed to identify and define the engineering measures to be taken into account in the design of the NPP.

The impact of the NPP on the site for radiological and non-radiological aspects will be discussed together with the provisions to be taken on the territory to take into account, and minimize, the effects of the NPP on the environment and the population. Site related issues affecting emergency preparedness and security will also be covered. The course will emphasize: the regulatory requirements, content of a regulatory safety guide for site safety analysis, content of documentation to be submitted to the NRA, the regulatory licensing review and management process.

Consideration will be given to the lessons learned from Fukushima event and public communication during the siting process.

Reference standards for all NPP siting aspects will be provided.

Two practical application sessions are included in the training program.



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Course Daily Program

Monday October 2 nd , 2017	
08.30 - 09.00	Registration
9.00 – 13.00	Welcome, Organizational aspects, Training objective, Training program
	EU infrastructure for Nuclear and Radiation Safety - <i>A. Madonna (ITER)</i>
	Regulator's role and functions - <i>A. Madonna (ITER)</i>
	Site analysis objectives & requirements - <i>A. Madonna (ITER)</i>
13.00 – 14.00	Lunch
14.00 – 17.30	Site radiological investigation and radiological impact from the NPP – <i>A. Kantavari (HAEA)</i>
	Environmental Impact Assessment for non radiological aspects and socioeconomics – <i>A. Kantavari (HAEA)</i>

Tuesday October 3 rd , 2017	
9.00 – 13.00	Radiation effects, dose evaluation and representative individual - <i>R. Remetti (ITER)</i>
	NPP site events and approach for licensing - <i>F. Zambardi, A. Madonna (ITER)</i>
	Extreme meteorological conditions and flooding hazard – <i>E. Vittori (ISPRA)</i>
13.00 – 14.00	Lunch
14.00 – 17.30	Tsunami hazard analysis and definition of site design basis – <i>E. Vittori (ISPRA)</i>
	Aircraft crash - <i>G. Orsini, V. Lucarelli (ITER)</i>
	External explosions - <i>G. Orsini, V. Lucarelli (ITER)</i>

Wednesday October 4 th , 2017	
9.00 – 13.00	Seismic Hazard Exclusionary and screening criteria - <i>E. Vittori (ISPRA)</i>
	Deterministic and probabilistic seismic hazard analysis – <i>E. Vittori (ISPRA)</i>
	Summary of site events impact on design of the NPP and post Fukushima feedback – <i>A. Volkanovski (JSI)</i>
13.00 – 14.00	Lunch
14.00 – 17.30	Practical application n. 1 - “Seismic Hazard”

Thursday October 5 th , 2017	
9.00 – 13.00	Content of Regulatory Guide for NPP siting requirements – <i>G. Pino, A. Madonna (ITER)</i>
	Content of documentation to be submitted for site approval – <i>G. Pino (ITER)</i>
	Regulatory licensing and safety related review - <i>A. Madonna (ITER)</i>
13.00 – 14.00	Lunch
14.00 – 17.30	Practical application n. 2 - “Radiological impact of the NPP”

Friday October 6 th , 2017	
9.00 – 13.00	Emergency planning considerations during site analysis – <i>M. Gregoric (ITER)</i>
	Security considerations during site analysis - <i>M. Gregoric (ITER)</i>
	Public information and regulator's role – <i>A. Madonna (ITER)</i>
13.00 – 14.00	Lunch
14.00 – 17.30	Course summary
	Questionnaire
	Opinion from trainees
	Certificates Awarding