



EC - 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

Regulatory inspections (oversight) during NPP operations

organized by ITER-Consult and BNRA

Sofia – July 9 - 13, 2018

Bulgarian Nuclear Regulatory Agency Headquarter
69 Shipchenski prohod blvd.,
1574 Sofia, Bulgaria

Course Objective

The training course will introduce and discuss the main aspects of the regulatory inspections during NPP operation. Main technical and organizational aspects characterizing the regulatory inspection will be illustrated and discussed.

The course program will include items as: role of inspector; kind of inspections; regulatory approach to surveillance and inspection activity; planning of inspections; preparation of inspection and related documents, inspections during siting, construction, commissioning and operation; conduct of inspections for SSC, inspection of operational limits and conditions (OLC), inspection of occupational radiation protection; inspections during NPP outage, investigation of operating events; reporting about inspections, use of inspection reports in regulatory decision making; Relevant elements of recent EU Directive on nuclear and radiation safety will be taken into account introducing the EU infrastructure for N&R safety.

A visit to Kozloduy NPP is organized for the trainees providing direct evidence of on-site regulatory inspection activity and role of on-site regulatory inspector.

Reference international standards and safety requirements will be addressed.



resources & energy

Course Daily Program

Monday 9 th July 2018	
09.00 - 09.30	Registration
9.30 – 12.30	Welcome Organizational aspects, Training objective, Training program – <i>A. Madonna (ITER)</i>
	EU infrastructure for Radiation Protection and Nuclear Safety – <i>A. Madonna (ITER)</i>
	Role, functions and responsibilities of the nuclear regulatory authority - <i>A. Madonna (ITER)</i>
	Overview of regulatory role and competence for inspectors – <i>A. Madonna (ITER)</i>
12.30 – 13.30	Lunch
13.30 – 17.00	Planning Regulatory Inspection and related procedures - <i>Hristo Botsoev (BNRA)</i>
	Graded approach, management of regulatory inspections – <i>Ivan Gorinov (BNRA)</i>
	Inspection types and inspection areas – <i>Hristo Botsoev (BNRA)</i>

Tuesday 10 th July 2018	
9.00 – 12.30	Regulatory enforcement actions and graded approach – <i>Deyana Dosieva (BNRA)</i>
	Methodology for regulatory inspection implementation – <i>Lidiya Katsarska (BNRA)</i>
	Training & Qualification of Inspectors – <i>Albena Georgieva (BNRA)</i>
12.30 – 13.30	Lunch
13.30 – 17.00	Regulatory inspections during NPP operation – <i>Orlin Velichkov (BNRA)</i>
	Regulatory inspections during NPP outage and implementation - <i>Dobrinka Stoyanova (BNRA)</i>
	Regulatory inspection for radiation protection, occupational exposure and radioactive effluents to the environment – <i>Lidiya Katsarska (BNRA)</i>

Wednesday 11 th July 2018	
9.00 – 12.30	Regulatory inspections on NPP in operation (experience from another EU country) – <i>D. Nyisztor (HAEA)</i>
	Regulatory Inspection for civil structures and inspection guideline – <i>D. Mazzini (ITER)</i>
	Regulatory Inspections for material and radwaste management – <i>A. Alexiev (BNRA)</i>
12.30 – 13.30	Lunch
13.30 – 17.00	Regulatory oversight and authorization (license) for operating personnel – <i>Svetla Kazakova (BNRA)</i>
	Regulatory Oversight - Physical Protection/ Security Culture – <i>Plamen Yankov (BNRA)</i>
	Regulatory inspections on radiation protection and technical support – <i>G. Valchev (WP)</i>

Thursday 12 th July, 2018	
9.00 – 12.30	<ul style="list-style-type: none"> • Visit of Kozloduy NPP Training Centre • Discussion with the Licensee and regulatory on-site inspectors
12.30 – 13.30	Lunch
13.30 – 17.00	<ul style="list-style-type: none"> • On-site walk-down to KNPP unit 5&6 • Common walk-down for selected items with BNRA inspectors • Practical example of regulatory inspection activity in KNPP

Friday 13 th July 2018	
9.00 – 12.30	Radiation protection requirements and inspections according to the new EU BSS - <i>Viktor Badulin (BNRA)</i>
	Regulatory Oversight of emergency arrangements – <i>Lyudmila Simeonova (BNRA)</i>
	Regulatory transparency attitude – <i>A. Madonna (ITER)</i>
12.30 – 13.30	Lunch
13.30 – 17.00	Course summary
	Questionnaire
	Opinion from trainees
	Training Minutes
	Certificates