



INSC Project MC.03/10

**Training and Tutoring for expert of the NRAs and their TSOs for
developing or strengthening their regulatory and technical
capabilities**

LOT 1

Tutoring Module N. 5

“Regulatory inspections (oversight) for NPP”

June 9th – August 1st, 2014

c/o Bulgarian Nuclear Regulatory Agency, Sofia

Tutoring Program

Draft

February 2014



Draft

Tutoring Module

“Regulatory inspections (oversight) for NPP”

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General Objective:

The tutoring activity is conceived as “on the job training” at BNRA in the area of:

- regulatory inspections of a NPP
- role of inspectors
- organization and conduct of inspections,
- planning and content,
- identification of key aspects to be investigated or checked,
- use of inspection in the regulatory function of inspection and enforcement,
- familiarization with regulatory requirements and applicable standards.

Objective of the tutoring will be to ensure an optimum of transfer of know-how and develop capability in understanding of the main issues concerning the regulatory inspections and enforcement.

The tutoring is with the duration of two month (June 9th to August 1st) at the Bulgarian Nuclear Regulatory Agency Headquarter and on-site inspection office at Kozloduy Nuclear Power Plant.

During the tutoring activity the trainees will be asked to elaborate and report review analysis and prepare a final Tutees Tutoring report.

Subject/Area	BNRA Expert
1st Week – BNRA Headquarters, Sofia	
<p>Introduction</p> <ul style="list-style-type: none"> – BNRA working place and equipment, access and internal rules – Tutoring program – goals, objectives and reporting requirements <p>BNRA processes and practices</p> <ul style="list-style-type: none"> – BNRA functions and structure – Bulgarian legislation – Laws and Regulations on safety of NPPs – Licensing process - licensing principles and procedures – Inspection process – practices, internal rules, areas, management of inspections <p>Coordination and links between inspections and Review and Assessment</p> <p>Preparation of a team inspection – together with BNRA</p> <ul style="list-style-type: none"> – Inspection planning, inspection programme – Subject: Implementation of the National Post-Fukushima Action plan (Kozloduy NPP) 	<p>V. Draganov N. Vlahov R. Tranteeva H. Botsoev</p>
2nd Week – Team Inspection, Kozloduy NPP site	
<p>Implementation of the National Post-Fukushima Action plan by the Kozloduy NPP</p> <ul style="list-style-type: none"> – On-site verification of implementation of planned safety improvement measures, resulting from the EU stress tests; CNS Extraordinary Meeting; Peer Reviews; etc. <p>Preparation of inspection report</p>	<p>BNRA Inspection Team</p>
3rd – 4th Weeks – On-site Inspection Coaching, Kozloduy NPP site	
<p>Presentation of on-site inspection activities</p> <ul style="list-style-type: none"> – Procedure for on-site (routine, daily) inspections <p>Control of operations – Kozloduy NPP, units 5-6</p> <ul style="list-style-type: none"> – Graded approach in inspections – Operating parameters; Main control room, Emergency CR – Turbine and generator; – Tests and operability verification of safety systems; – Modifications; – Reactor primary side; – Secondary side; – I&C; – Etc. 	<p>N. Steklov K. Karastanev</p>

Subject/Area	BNRA Expert
5th Week – On-site Inspection Coaching, Kozloduy NPP site	
Radiation Protection and control of discharges <ul style="list-style-type: none"> – Radiation protection arrangements; – Personnel dose control and exposure; – Dose monitoring; – Authorised discharges – gaseous, liquid; – Etc. 	V. Panova
6th Week – On-site Inspection Coaching, Kozloduy NPP site	
RAW Management and Decommissioning <ul style="list-style-type: none"> – RAW Management; – On-site RAW processing; – Waste storage and control; – Decommissioning plan; – Dismantling activities; – Etc. 	G. Atanasov
7th Week – On-site Inspection Coaching, Kozloduy NPP site	
Spent Fuel Management and General (common) Plant Facilities <ul style="list-style-type: none"> – Wet SFSF; – Dry SFSF; – Auxiliary buildings; – Bank pumping station; – Open swithyard; – Etc. 	H. Kremenlieva Head of On-site Division
8th Week – BNRA Headquarters, Sofia	
Spent Fuel Management and General (common) Plant Facilities <ul style="list-style-type: none"> – Wet SFSF; – Dry SFSF; – Auxiliary buildings; – Bank pumping station; – Open swithyard; – Etc. Support to the Tutees in the preparation of the final Tutoring report	V. Draganov N. Vlahov R. Tranteeva H. Botsoev