



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”

TASK 2

Tutoring Module

on

“Regulatory review and oversight of NPP during operation”

February 29th – April 22nd, 2016
c/o BNRA, Sofia

Tutoring Programme

Draft

February 2016



Tutoring Module on

“Regulatory inspections (oversight) for NPP”, February 29th – April 22nd, 2016, c/o BNRA, Sofia

Draft Program

Duration: February 29th – April 22nd, 2016

Venue: Bulgarian Nuclear Regulatory Agency (BNRA), address: 69 Shipchenski prohod blvd, Sofia

Tutoring Coordinator: Alexander Rogatchev

Tutoring objective

The objective of the Tutoring is to provide to the tutees knowledge, practical examples of regulatory practices and to exercise important issues in the area of Regulatory inspections for NPP.

Tutoring content

The tutoring course (8 weeks organized for 2 tutees) is planned back to back to the one week EU dedicated training course in Sofia on the same topic.

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.

Expected achievements

Transfer of know-how and development of capability by the tutees in understanding the tutoring content through communication and work along with the representatives (inspectors) from BNRA in Headquarter and on-site at Kozloduy NPP.



WEEKLY PROGRAM

(changes can be introduced in the timing and adding new topics according to the progress of activities)

Subject/Area	BNRA Expert
1-st 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 In accordance with the annual inspection plan.</p>	<p>V. Draganov N. Vlahov R. Tranteeva P. Stoyanova H. Botsoev</p>
2-nd Week – Team Inspection, Kozloduy NPP site	
<p>Conduction of an inspection on Kozloduy NPP site Preparation of an inspection report</p>	<p>BNRA Inspection Team H. Botsoev</p>
3-rd – 4-th 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>K. Karastanev H. Kremenlieva I. Ivanov M. Andonov</p>

Subject/Area	BNRA Expert
5-th 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. 	G. Atanasov
6-th 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
7-th 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 switchyards; – Etc. 	H. Kremenlieva I. Ivanov
8-th Week – BNRA Headquarters, Sofia	
Spent Fuel Management and General (common) Plant Facilities <ul style="list-style-type: none"> – Wet SFSF; – Dry SFSF; – Auxiliary buildings; – Etc. 	V. Draganov N. Vlahov R. Tranteeva H. Botsoev V. Todorova



Reporting

At the end of the Tutoring Module the Tutees will elaborate a common Report containing the following sections:

- **INTRODUCTION**
- **TUTORING OBJECTIVE**
- **TUTORING PROGRAM**
- **ACTIVITIES PERFORMED**
- **MAIN RESULTS**
- **CONCLUSIONS**

The Tutees Report will be approved by the tutoring coordinator.