



Project	INSC Project MC3.01/13
Title	Training and Tutoring for experts of the National Regulatory Authorities and their Technical Support Organisations for developing or strengthening their regulatory and technical capabilities
Contract	N° NSI/2014/343-969 (between the EC and ITER-Consult)
Subject	Sub-Task 2.1: Trainings

Sub-Task 2.1: Trainings - EU Dedicated Training Course
on
"Security, Nuclear materials Protection, Control and Accounting"
Budapest - October 3rd - 7th, 2016

Minutes

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Objective of the Training - The objective of the course was to provide presentation and discuss the basic topics related to nuclear security: the conception and requirements of the physical protection (PP) system (prevention, detection and response), security issues for nuclear facilities, nuclear material and radioactive substances during their operation, management and transport.

Synthesis of the training activity - The training has been opened with a welcome from the course coordinator of the hosting organisation HAEA Ms J. Silye and introduced then by the Technical Project Leader (TPL) Mr. A. Madonna from ITER.

The TPL Mr. Antonio Madonna (ITER) has informed the trainees about the EC INSC program and the objective of the T&T project financed by the EC. He has highlighted the objective of the training and its program underlining the importance of the conduct of course in a interactive way between trainers and trainees in order to maximize the transfer of knowledge.



The organisation of the training week includes one practical application to be carried out by the trainees.

The EC infrastructure for Nuclear and Radiation Safety, Safeguards and security was first presented at the start of the training focussing on the Euratom Treaty, EC directives and EC institutions, performed stress test after Fukushima and the importance to ensure continuous improvement in nuclear & radiation safety and security and promote transparency.

During the implementation the following specific subjects were presented and discussed in a systematic and comprehensive way:

- Role, functions and responsibilities of the nuclear regulatory authority,
- Objectives and approach of nuclear security: prevention, detection and response,
- National threat assessment, DBT, identification of targets and potentials consequences,
- Security management measures,
- Conception of a Physical Protection System,
- Protection of sensitive information, computer security and transport security,
- Contingency planning security drills and exercises,
- Nuclear safeguards system and safeguards verification measures,
- State system of accounting and control,
- Nuclear and dual use items,
- Regulatory needed capacity to oversee security and safeguards,
- International legal instrument for security and safeguards.

The topics, which were presented and discussed in details are listed in Annex 3. Each presentation was followed by questions from the trainees clarifying some concepts and providing additional information.

The Practical Application was dedicated to the topic: "Designing a physical protection system of a Nuclear Power Plant" and it was conducted dividing the trainees in 4 groups, which presented the results in a common session.

According to the program there were involved 7 different lecturers for a total of 22 lectures and 1 Practical Application.

Each day was concluded with a summary of the activity performed and related key aspects.

All week was summed up with a Course Summary on Friday afternoon.



Conclusions - The training activity was carried out covering all program topics providing effective examples and experiences, keeping the focus on the Nuclear material protection, Control and Accountability and Nuclear security.

The 14 trainees from Nuclear Regulatory Authority of 9 Partner Countries: Brazil, Malaysia, Mongolia, Morocco, Nigeria, South Africa, Thailand, Ukraine and Vietnam (with strong female participation 11 out of 14 participants) has been actively interacting contributing with their questions to create a good atmosphere for transfer of knowledge.

The trainees manifested good consideration for the program and content of the training (quite intense) showing high interest, asking questions, clarifications and expressing their view and answering the trainer's question to check their understanding and make comparison among different views.

The Practical Application gave them the possibility to apply in practice the gained knowledge. They have thanked the organisers and the EC for the opportunity given to participate. In the afternoon of last day a detailed technical questionnaire was submitted to the trainees to verify the effectiveness of the course in transferring know how and the main course concepts.

Each trainee was asked to express his/her opinion and remarks on the course to be used for feedback and improvement. The material of the training was provided to the trainees in electronic and paper folder.

ANNEXES

- Annex 1 Training Program
- Annex 2 List of participants
- Annex 3 List of lectures/presentations

Budapest, 07.10.2016

J. Silye, Course Coordinator

A. Madonna, TPL

Trainees	Organiz. & Country	Signature
Ms. Daniele De Azevedo Baêta	CNEN/Brazil	
Ms. Siti Saleha Sofian Suri	AELB/Malaysia	
Ms. Norhasfalina Saidin	AELB/Malaysia	
Ms. Nurul Izza Abu Hassan	AELB/Malaysia	



Trainees	Organiz. & Country	Signature
Ms. Khashbayar Baasandorj	GASI/Mongolia	<i>B. Khashbayar</i>
Mr. Rachid Ait Mansour	CNESTEN/Morocco	<i>Rachid Ait Mansour</i>
Ms. Zainab Suleiman Sani	NNRA/Nigeria	<i>Zainab</i>
Mr. Godpower Ledeebari Gbeneneh	NNRA/Nigeria	<i>Godpower Ledeebari</i>
Mr. Lance Garth Davis	NNR/South Africa	<i>Lance Garth Davis</i>
Ms. Chadtaparuda Ussawaphuchai	Office Of Atoms For Peace/Thailand	<i>Chadtaparuda Ussawaphuchai</i>
Ms. Varunee Toeypho	Institute of Nuclear Technology/Thailand	<i>Varunee T.</i>
Ms. Svitlana Prus	SNRIU/Ukraine	<i>Svitlana Prus</i>
Ms. Tuong Thanh	VARANS/Vietnam	<i>Tuong Thanh</i>
Ms. Thuy NGUYEN	VARANS/Vietnam	<i>Thuy NGUYEN</i>