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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

Radiation Protection and Regulatory Emergency Preparedness

organized by ITER-Consult and HAEA

Budapest – February 1-5, 2016

Hotel Thermal Aquincum – Sabine Hall
Address: Árpád fejedelem útja 94 H-1036 Budapest
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Course Objective

The training course will present and discuss the objective, content and responsibilities for the radiation protection and emergency preparedness with focus on the function and responsibility of the Nuclear Regulator. The structure and content of a typical emergency plan and emergency zoning (with reference to both on-site and off-side emergency plan), definition of roles and identification of responsibilities of government, operator and regulator, and their interfaces, will be presented and discussed. Links with international conventions and obligations will be addressed.
The role of the regulator in supporting the government in decision making during an emergency will be detailed. The training will also cover: aspects related to source term estimation and environmental monitoring, periodic drills of the emergency preparedness, lessons learned from Fukushima accident, public communication in normal operation and during and after emergencies.
Reference legal instruments, standards and requirement will be addressed.
A visit to the Hungarian Atomic Energy Authority (HAEA) emergency centre and practical application are included in the training program.

Course Daily Program

Monday 1st February, 2016	
08.30 - 09.00	Registration
9.00 – 12.30	Welcome Organizational aspects, Training objective, Training program – *K. Slavcheva, A. Madonna (ITER)*
	EU infrastructure for Radiation Protection and Nuclear Safety – *K. Slavcheva, A. Madonna (ITER)*
	Role and responsibilities of a Nuclear Regulatory Authority (NRA) – *K. Horváth (HAEA), A. Madonna (ITER)*
12.30 – 13.30	Lunch
13.30 – 17.00	Essentials of Radiation Protection - *L. Koblinger (HAEA/TSO)*
	Basic notions of radiation protection for nuclear and radiological emergencies - *L. Koblinger (HAEA/TSO)*
	Nuclear and radiological emergencies: an overview – *C. Osimani (ITER)*

Tuesday 2nd February, 2016	
9.00 – 12.30	On-site nuclear emergency plans – *C. Osimani (ITER)*
	Off-site nuclear emergency plan: organization, requirements and periodic drills - *Á. Vincze (HAEA)*
	Early phase countermeasures - *G. Petőfi (HAEA)*
12.30 – 13.30	Lunch
13.30 – 17.00	Late phase countermeasures - *G. Petőfi (HAEA)*
	Visit to Hungarian Atomic Energy Authority (HAEA) Emergency Centre, National Emergency Response – *G. Macsuga (HAEA)*

Wednesday 3rd February, 2016	
9.00 – 12.30	Source term estimation – *K. Horváth (HAEA)*
	Transfer processes of released radioactivity to man and environment - *L. Koblinger (HAEA/TSO)*
	Atmospheric dispersion: interpretation of model and measurements results - *Á. Vincze (HAEA)*
12.30 – 13.30	Lunch
13.30 – 17.00	Environmental monitoring and data management - *Á. Vincze (HAEA)*
	Triage, monitoring and treatment of people exposed to ionizing radiation - *G. Sáfrány (NRRI)*

Thursday 4th February, 2016	
9.00 – 12.30	Organization of nuclear and radiological emergency exercises – *G. Macsuga (HAEA)*
	Legally binding national and international instruments related to emergency preparedness - *J. Silye (HAEA)*
	Legal requirements on data notification & information exchange – *J. Silye (HAEA)*
12.30 – 13.30	Lunch
13.30 – 17.00	**Practical Application** ***- K. Horvath (HAEA), G. Petőfi (HAEA)***

Friday 5th February, 2016	
9.00 – 12.30	Public communication during normal and emergency conditions – *N. Zeleznik (ITER)*
	Lessons learned from other historical radiological accidents – *Á. Vincze (HAEA)*
	Security events initiated emergency situations – *K. Horváth (HAEA)*
12.30 – 13.30	Lunch
13.30 – 17.00	Course summary – Training Coordinator - *Z. Lenard (HAEA)*
	Questionnaire – *N. Zeleznik (ITER), J. Silye (HAEA)*
	Opinion from trainees - *N. Zeleznik (ITER), J. Silye (HAEA)*
	Training Minutes - *Z. Lenard (HAEA), N. Zeleznik (ITER)*
	Certificates – *N. Zeleznik (ITER), J. Silye (HAEA)*