



## **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**

**“Nuclear security, physical protection of nuclear material and accountability controls”**

October 10th – November 4th, 2016

c/o HAEA (Budapest)

#### **Tutoring Programme**

draft Rev. 1

*September 2016*



**INSC Project MC3.01/13  
EC Contract N° NSI/2014/343-969**

**Tutoring Module on “Nuclear security, physical protection of nuclear material and accountability controls”**

**Tutoring Programme**

*Draft*

**Duration: October 10th – November 4th, 2016**

**Venue: Hungarian Atomic Energy Authority, address: H-1036 Budapest, 4. Fényes Adolf str.**

**Tutoring Coordinator: Dr. Zsolt STEFÁNKA**

**Tutoring objective**

The objective of the Tutoring is to provide to the tutees knowledge, examples of regulatory practices and to exercise important issues in the area of Nuclear security, physical protection of nuclear material and accountability controls.

**Tutoring content**

The tutoring course (4 weeks organized for 2 tutees) is planned back to back to the one week EU dedicated training course in Budapest on the same topic.

The tutoring activity is conceived as “on-the-job training” in the area of Nuclear security, physical protection of nuclear material and accountability controls at the headquarter of the Hungarian Atomic Energy Authority in Budapest.

The tutoring course will be subject to acceptance of hosting organization and related confidentiality agreement and limitation of access to available information.

It will cover:

- Basis, requirements, systems, responsibilities and regulatory function;
- Nuclear Security Regulatory Regime (legal background, security licensing, development of requirements, guidelines, establishment and revision of DBT, trustworthiness checks, inspections);
- Physical protection requirements of nuclear facilities (approach and content of physical protection plan for a NF);
- Physical protection requirements for use and storage of nuclear and other radioactive materials;
- Registration of sources;
- Categorization of nuclear and other radioactive materials and radioactive wastes;
- Non-proliferation in Hungary (international and national legal instruments, export-import control, CTBTO, ITDB etc.);
- SSAC in Hungary (Data & information collection, processing, reporting, licensing, verification);
- Safeguards culture in Hungary (Comprehensive Domestic Safeguards Verification System, Safeguards Performance Assessment Index).

### Expected achievements

Consolidate knowledge of requirements and approaches and measures to implement security and physical protection of nuclear material and nuclear facilities with familiarization with roles and responsibilities.

## WEEKLY PROGRAM

*(changes can be introduced in the timing and/or adding new topics according to the progress of activities and suggestions by the tutees)*

Week	Topic	Tutor
10-14.10.16	<p><b>Monday</b> at HAEA</p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>- Basis, requirements, systems, responsibilities and regulatory function;</li> <li>• Nuclear Security Regulatory Regime (legal background, security licensing, development of requirements, guidelines, establishment and revision of DBT, trustworthiness checks, inspections);</li> </ul> <p><b>Tuesday</b> Visit of the Paks Nuclear Power Plant</p> <ul style="list-style-type: none"> <li>• Information (presentation, discussion) about the NPP's nuclear safeguards system</li> </ul> <p><b>Wednesday, Thursday</b> Visit of the Interim Spent Fuel Storage</p> <ul style="list-style-type: none"> <li>• Information (presentation, discussion) about the facility's nuclear safeguards and security system, site visit</li> </ul> <p><b>Friday</b> Preparation of the Tutees' report</p>	<p>Mr. Zsolt STEFÁNKA Ms. Hedvig NAGY Mr. Armand VIPLAK</p> <p>Mr. Zoltán KATÓ</p>
17-21.10.16	<p><b>Monday, Tuesday</b> Visit of the Hungarian Academy of Sciences, Centre for Energy Research</p> <ul style="list-style-type: none"> <li>• Information (presentation, discussion) about the Nuclear Forensics Laboratory's work and instruments</li> </ul> <p><b>Wednesday, Thursday</b> at HAEA</p> <ul style="list-style-type: none"> <li>• Information (presentation, discussion) about the Hungarian nuclear safeguards and security regulatory system</li> </ul> <p><b>Friday</b></p> <ul style="list-style-type: none"> <li>- Physical protection requirements of nuclear facilities (approach and content of physical protection plan for a NF);</li> <li>- Physical protection requirements for use and storage of</li> </ul>	<p>Mrs. Éva KOVÁCS-SZÉLES</p> <p>Mr. Zsolt STEFÁNKA Ms. Hedvig NAGY Mr. Armand VIPLAK</p>

Week	Topic	Tutor
	nuclear and other radioactive materials; Preparation of the Tutees' report	
<b>24-28.10.16</b>	<b>Monday to Thursday</b> at Óbuda University <ul style="list-style-type: none"> <li>• Visit of the Department of Safety and Security Engineering</li> </ul> <b>Friday</b> <ul style="list-style-type: none"> <li>- Registration of sources;</li> <li>- Categorization of nuclear and other radioactive materials and radioactive wastes;</li> </ul> Preparation of the Tutee's report	Mr. Tibor KOVÁCS Mr. Zsolt STEFÁNKA Ms. Hedvig NAGY Mr. Armand VIPLAK
<b>31.10-04.11.16</b>	<b>Monday to Tuesday</b> at HAEA Report preparation <b>Wednesday, Thursday</b> at HAEA <ul style="list-style-type: none"> <li>- Non-proliferation in Hungary (international and national legal instruments, export-import control, CTBTO, ITDB etc.);</li> <li>- SSAC in Hungary (Data &amp; information collection, processing, reporting, licensing, verification);</li> <li>- Safeguards culture in Hungary (Comprehensive Domestic Safeguards Verification System, Safeguards Performance Assessment Index).</li> </ul>	Mr. Zsolt STEFÁNKA Ms. Hedvig NAGY Mr. Armand VIPLAK

## 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 prior to its official issuing.