



**IAEA**

International Atomic Energy Agency

*Atoms for Peace*

**DEPARTMENT OF NUCLEAR SAFETY AND SECURITY  
DIVISION OF RADIATION, TRANSPORT AND WASTE SAFETY**



**EDUCATION AND TRAINING APPRAISAL  
IN RADIATION PROTECTION AND THE SAFETY OF  
RADIATION SOURCES**

**ISRAEL**

4 - 7 May 2015

## APPRAISAL TEAM - PARTICIPANTS

### Appraisal Team

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Richard Paynter	United Kingdom (Team Leader)
Julio Barcelo	Spain
Andrea Luciani	IAEA (Team Coordinator)

### List of Participants

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#### Ministry of Economy

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Raisa Lauterstein – Chief Radiation Inspector

#### Ministry of Environmental Protection

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Victor Steiner - Ionizing Radiation Department, RSNAD

#### Ministry of Health

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Moshe Levita - Chief Radiation Executive  
Avi Kravel – Head of the Radiation Control Unit

#### Ministry of Transportation

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Moti Assal – Head of the Transport Service Branch

#### Soreq NRC

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Jean Koch – Head of the Radiation Safety Division  
Lea Ben-Ari – Head of the National School for Radiation Protection  
Avi -Ben-Shlomo – Radiation Safety Division  
David Benmaman – Certified Radiation Inspector  
Erez Daniely – Certified Radiation Inspector  
Ran Ashkenazi – Deputy Head of the Safety Division  
Lior Epstein – Radiation Safety Division  
Elazar Sarid – Chief Scientist of Soreq NRC  
Dan Berkovitz – Head Scientist at SARAF

#### NRCN

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Noah Vainblat – Director of the Radiation Safety Department

#### Israel Atomic Energy Commission

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Keren Tal - Deputy Director for External Relations and International Cooperation

#### Nuclear Licensing and Safety office (NLSO)

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Meir Markovits - Head of the NLSO  
Igal Belaish – Head of the Radiation Protection Division  
Gustavo Haquin – Head of the Radiation Safety Department

#### First Responders Training Center

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Lior Krantz – Senior Instructor  
Yaron Elimelech - Senior Instructor

## **BACKGROUND**

On the request of the Israeli Atomic Energy Commission (IAEC) an Education and Training Appraisal (EduTA) was agreed to be conducted on 4-7 May 2015 under the Technical Cooperation national project ISR9008 “Improving and strengthening radiation protection education and training in Israel”.

The questionnaire was sent out to IAEC with the request to fill out the core modules (Modules A on the legal and regulatory framework for education and training, and Module B on the national strategy for education and training). The Module C, conceived to be filled out by organizations conducting the Postgraduate Educational Course in radiation protection and the safety of radiation sources (PGEC) under the auspices of the IAEA, was not considered as part of the appraisal mission.

A partially filled questionnaire was sent back to the IAEA contact point for preliminary assessment prior to the mission being carried out. The supporting documents were partially retrieved by the IAEA contact point from the documents available in the RASIMS (IAEA Radiation Safety Information Management System). After consultation with the other members of the EduTA appraisal team, the IAEA contact point provided the Israeli counterpart with guidance and suggestions on how to amend the provided information in order to properly address some of the questions, particularly in relation to the legal and regulatory framework for education and training. The need to provide all the supporting documents was also addressed.

## **OBJECTIVES AND TERMS OF REFERENCE OF THE EduTA MISSION**

The general objectives of the EduTA are:

- To carry out a detailed appraisal of the status of the provisions for education and training in radiation protection and the safety of radiation sources;
- To identify areas in education and training, where the provisions should be improved to meet (i) the IAEA safety standards, (ii) the national education and training needs, (iii) best practices;
- To provide the host Member State with recommendations and suggestions for improvement;
- To provide key staff in the host Member State with an opportunity to discuss the legislative framework and the national policy and strategy in the field, with the EduTA team members who have experience in the issues at stake;
- To promote the IAEA Standards and Guidelines relevant to the scope of the appraisal.

In this framework, the terms of reference of this appraisal mission were:

- To revise and review, together with the counterpart, the information provided in Module A and B of the EduTA questionnaire on the legal and regulatory framework for education and training in radiation protection and safety, and the national strategy for education and training, respectively.
- Providing an opportunity to continuously improve the provisions and overall infrastructures for education and training in radiation protection and safety.

## **CONDUCT OF THE MISSION**

The EduTA mission was conducted according to the agreed Mission Programme. The opening session of the mission took place at the premises of Soreq Nuclear Research Centre (SNRC) on the first day of the mission. The EduTA team was welcomed by Ms Lior Epstein, counterpart of the IAEA Technical Cooperation Project ISR9008. Representatives of IAEC, SNRC, Nuclear Research Centre - Negev (NRCN), Ministry of Economy, Ministry of Environmental Protection, Ministry of Health, and Ministry of Transportation participated in the opening session.

The EduTA team leader presented the scope and objectives of the mission, the procedure for conducting the mission and the general structure and content of the Module A and B of the questionnaire.

The representatives of the Israeli authorities provided several presentations on the national legal and regulatory framework, with particular emphasis on requirements for education and training in radiation protection, and on the activities and infrastructures for training in radiation protection. Presentations provided were on:

- “The Regulatory Infrastructure for Radiation Protection in Israel” Jean Koch, Radiation Safety Division (Head), SNRC;
- “Occupational radiation protection”, Varda Edwards, Ministry of Economy, Occupational Safety and Health Administration – OSHA (Head), and Chief Labour Inspector (presented by Jean Koch);
- “Department of Radiation Control”, Ministry of Health, Moshe Levita, Chief Radiation Executive;
- “IAEA Expert Mission to Israel”, Ministry of Environmental Protection, Radiation Safety and Noise Abatement Department, Victor Steiner;
- “Transport of Radioactive Material”, Ministry of Transport and Road Safety, National Authority for Public Transport, Moti Assal Head of the Transport Service Branch;
- “Education and Training in Radiation Protection at the NRCN”, Noah Vainblat, Radiation Safety Department (Director), NRCN;
- “The National School for Radiation Protection”, Lea Ben-Ari and Avi Ben-Shlomo, SNRC.

On the second day the EduTA team visited the headquarters of the IAEC – NLSO (Nuclear Licensing and Safety Office). Here presentations were provided on:

- “IAEC and NLSO Introductory Presentation”, Meir Markovits, (Deputy Director General, Head of Nuclear Licensing and Safety Office - Israel Atomic Energy Commission)
- “Nuclear Licensing and Safety Office (NLSO) Functions”, Igal Baleish, Head of the Radiation Protection Division, NLSO
- “Training of first responders”, First Responders Training Center, Lior Krantz.

After the presentations, the information provided to the EduTA team by the Israeli counterpart prior to the mission was discussed in detail, explanations on completing the questionnaire were given by the EduTA team and additional information was requested where necessary. Numerous documents were provided to the team.

In accordance with the mission programme, the EduTA team also visited:

- National School for Radiation Protection, SNRC,

(providing courses in radiation protection at several levels, from general awareness to courses for specific audience, , such as Radiation Protection Officers), and

- Soreq Applied Research Accelerator Facility (SARAF)

(to have a general overview on the practical application of the training requirements in two local relevant facilities).

On the last day, an exit meeting was held with the Israeli officials at the SNRC premises. The EduTA team leader presented a brief outcome of the four-day assessment. Conclusions, recommendations and suggestions were agreed with the counterpart.