



IAEA

International Atomic Energy Agency

Atoms for Peace

DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY

EduTA

EDUCATION AND TRAINING APPRAISAL MISSION

IN

GREECE

17-21 November 2008

COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Geetha Sadagopan, Team Coordinator, IAEA
2. Russell Anderson, Senior Expert and Team Leader, USA
3. Carlos Bonacossa de Almeida, Senior Expert, Brazil
4. Andrey Timoshchenko, Senior Expert, Belarus

PERSONS MET DURING THE APPRAISAL MISSION

Name	Designation
Dr. Christos Housiadas	President of the Greek Atomic Energy Commission – GAEC
Assoc. Professor Panagiotis Dimitriou	Head, Division of Research, Development and Education – GAEC
Mr. Christos Pafilis	PGEC Coordinator, Division of Research, Development and Education – GAEC
Dr. Vassiliki Kamenopoulou	Head, Licensing and Inspections Division – GAEC
Dr. Konstantinos Potiriadis	Head, Department of Environmental Radioactivity – GAEC (Laboratory of Environmental Measurements)
Dr. Eleftheria Carinou	Head, Department of Personnel Dosimetry – GAEC (Laboratory of Individual Monitoring)
Dr. Antonis Maltezos	Department of Environmental Radioactivity – GAEC (Radiation Monitoring Telemetry)
Mr. Giorgos K. Manoussaridis	Department of Licensing and Inspections – GAEC (Emergency Response)
Dr. Argiro G. Boziari	Department of Licensing and Inspection – GAEC (Laboratory of Calibration)
Dr. Giorgos Drikos	Head, Technical Support Department – Data Base Center – GAEC
Dr. Konstantinos J. Hourdakis	Head, Department of Licensing & Inspections – GAEC
Lecturer Panagiotis I. Papagiannis	Medical Physics Laboratory, University of Athens
Dr. Constantine A. Kalfas	Institute of Nuclear Physics – NCRS Demokritos (Laboratory of Accelerator – visited)
Dr. Gabriel Pantelias	Head, Health Physics and Environmental Health Laboratory - NCRS Demokritos, Researcher A. (Lab. Visited)
Dr. C. Archimandritis	Institute of Radioisotopes & Radiodiagnostic Products – NCRS Demokritos (Lab. Visited)
Dr. Stamatelatos Ion	Deputy Head, Research Reactor Laboratory (RRL), NSCR Demokritos, Researcher A.
Assist. Professor M.J. Anagnostakis	National Technical University of Athens

	Nuclear Engineering Section
Assist. Professor Styliaris Efstathios	Faculty of Physics - Department of Nuclear and Elementary Particle Physics, University of Athens
Ms. Stravoula D. Vogiatzi	Department of Licensing & Inspections - GAEC (Nuclear Medicine Installations)
Dr. Sotiris Ekonomides	Department of Licensing & Inspections - GAEC (Medical Installations)
Mr. Panagiotis Tritakis	Department of Licensing & Inspections – GAEC (Industrial & Medical Installations)
Mr. Anthony Rapp, MBA	General Manager, Hygeia Hospital – Athens
Professor Panagiotis Sandilos	Medical Physicist, Hygeia Hospital – Athens
Mr. Yannis Emmanouilidis	Production Manager/Radiation Physicist, Biokosmos Cyclotron

BACKGROUND

In a letter to the Secretariat, the Greek Atomic Energy Commission (GAEC) expressed willingness to receive an Education and Training Appraisal team. Greece was informed of the recommendation of the IAEA Steering Committee for Education and Training, requiring a detailed appraisal prior to concluding a long term agreement.

An EduTA mission was organized from 17-21 November with three external experts and an IAEA Technical Officer.

The principal Agency publications used as a basis for the appraisal were:

- The Education and Training Appraisal in Radiation Protection and the Safety of Radiation Sources (EduTA) (Working Material July 2005);
- The International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (SS No. 115);
- The Safety Guide, Building Competence in Radiation Protection and the Safe Use of Radioactive Sources (RS-G-1.4);
- Safety Report, Training in Radiation Protection and the Safe Use of Radioactive Sources (SRS-20);
- Standard Syllabus Postgraduate Educational Course in Radiation Protection and then Safety of Radiation Sources (Training Course Series 18);
- Draft Syllabus for the Training of Radiation Protection Officers.

TERMS OF REFERENCE OF THE APPRAISAL

The terms of reference for this appraisal were:

- To carry out a detailed appraisal of the status of the provision for education and training in radiation protection, including:
 - legislative and regulatory framework with particular reference to education and training;
 - guidance material relevant to education and training;
 - the national training programme in radiation safety or similar document;

- approved /accredited training course providers /centres and /accredited training courses, if approval/accreditation procedures/systems exist;
 - annual reports from accredited training course providers/centres; recognition/approval/accreditation procedures for education and training providers;
 - courses held in the past calendar year and the numbers of participants attending;
 - list of education and training events planned;
 - the facilities used for educational and training programmes;
 - Available human resource and national lecturers.
- To develop an Action Plan, together with the counterparts, to address deficiencies if any identified during the assessment.

CONDUCT OF THE APPRAISAL

The first step in the appraisal was the completion of a preliminary questionnaire by GAEC covering:

- Country information;
- Regulatory guidance documents;
- Number of facilities and devices;
- Existing regulatory provisions for education and training;
- Information on the existing qualified personnel and other occupationally exposed.

Dr. Panagiotis Dimitriou, Head, Division of Research, Development and Education, GAEC, welcomed the EduTA team. Dr. Vassiliki Kamenopoulou, Head, Licensing and Inspections Division, GAEC, provided an overview of the GAEC and its activities. Dr. Dimitriou then provided an overview of GAEC activities concerning education and training in radiation protection. The EduTA team briefed the hosts on the IAEA strategic plan for education and training, IAEA's interest to enter into long term agreements with the regional training centres, the objectives of the mission, and the procedure for the conduct of the mission and met with President of GAEC Dr. Christos Housiadas.

The appraisal was based on the Education and Training Appraisal in Radiation Protection and the Safety of Radiation Sources (EduTA) – Working material July 2005.

The pre-appraisal information provided to the team was discussed in detail and additional information was requested where required. During the mission, numerous documents were provided to the team.

During the week the EduTA team continued discussions with the host group and visited facilities/laboratories at the GAEC campus and the National Centre for Scientific Research (NCSR) "Demokritos." The EduTA team also met with staff of the Hygeia hospital, visited its radiotherapy facilities, and visited the cyclotron facility at Lavrio-Attica.

An exit meeting was held at GAEC with the President and staff of GAEC to present the Appraisal Team's preliminary conclusions. The recommendations and the action plan were agreed with the local counterpart.

A full technical report with the findings, recommendations and a work plan was provided to the mission's counterpart and the national authorities.