



**IAEA**

International Atomic Energy Agency

*Atoms for Peace*

**DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY**



# **EduTA**

## **EDUCATION AND TRAINING APPRAISAL MISSION**

IN

**EGYPT**

**10-14 October 2010**

## COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Andrea Luciani, Team Coordinator, IAEA
2. Mohammad Hassan Kharita, Senior Expert, Team Leader, Syria
3. Miguel Prendes, Senior Expert, Cuba

## PERSONS MET DURING THE APPRAISAL MISSION

Name	Designation
Prof. Dr. Mohamed T. El Kolaly	President EAEA
Prof. Dr. Soliman M. Soliman	Vice President for Training and International Cooperation, EAEA / Chairman, Hot Labs and Waste Management Center (HLWMC), EAEA
Prof. Dr. Mohamed A. Gomaa	Emeritus Professor, Radiation Protection - Nuclear Research Center (NRC), EAEA
Prof. Dr. Ahmed Eid	Emeritus Professor, Radiation Protection - National Center for Radiation Research and Technology (NCRRT), EAEA
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Dr. Ayman Farid	Lecturer, HLWMC, EAEA
Dr. Mahmoud Ali	Assistant Professor, HLWMC
Prof. Dr. Fatma Shehata	Head, Radioactive Waste Treatment Division –HLWMC, EAEA
Prof. Dr. Mahmoud M El Gantiry	National Cancer Institute
Dr. Walid I. Zidan	Senior Safeguard Inspector, NCNSRC, EAEA
Dr. Kassem Abd El Halim	Director, Radiation Protection Administration, Ministry of Health

## **BACKGROUND**

The inter-governmental African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology (AFRA) is one of the regional agreements under the IAEA. AFRA entered into effect in 1990. Since then, the AFRA Member States have been carrying out cooperative projects in various fields of nuclear science and technology for socio-economic development. As an intergovernmental agreement AFRA is fostering sustainable regional self reliance and mutual assistance in Africa. This aim can be consolidated through the recognition of regional institutions in high priority fields (AFRA Regional Designated Centers (RDCs)).

In the AFRA Strategic Action Plan, Procedures and Operational Guidelines, endorsed by the 19th meeting of AFRA representatives in September 2008, the arrangements for recognition of RDC are outlined. For that purpose any Member State that believes that one or more of its institutions are capable of fulfilling the overall and specific objectives of RDCs is invited to submit their applications according to the relevant fields of specialization. The application form together with the Specific Questionnaire for the field of specialization enables a pre-screening of the evaluation of the ability of the RDC to deliver its anticipated specialized services. Approved applications will be then audited through an IAEA EduTA mission (funded by AFRA). However, again according to AFRA Guideline for the Recognition of Regional Designated Centers it is the Technical Working Group Meeting (TWGM) which will nominate the RDC to the AFRA representatives of Member States based on the results of the whole evaluation process.

The Egyptian Atomic Energy Authority (EAEA) has applied to host a RDC in Egypt. The documents, according to the procedure for appointing RDCs, were provided to the IAEA Secretariat that, after a preliminary review, approved the application and initiated the organization of an EduTA mission.

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 2008);
- 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.

Other reference material used as a basis or the appraisal was:

- Application for Regional Designated Centers (RDC) for Training in Radiation Protection in AFRA Member States - Questionnaire;
- AFRA Guidelines for the Recognition of AFRA Regional Designated Centres.

## **TERMS OF REFERENCE OF THE APPRAISAL**

The terms of reference for this appraisal were:

- To carry out an education and training appraisal mission to review 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 /centers and /accredited training courses, if approval/accreditation procedures/systems exist;
- annual reports from accredited training course providers/centers; 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 outline an Action Plan, together with the counterparts, to address deficiencies, if any identified during the assessment.

## **CONDUCT OF THE APPRAISAL**

The president of the Egyptian Atomic Energy Authority (EAEA) Prof. Mohamed T.H. El-Kolaly, welcome the EduTA mission in the Headquarters of EAEA, in the presence of Prof. Soliman M. Soliman (Vice President for Training and International Cooperation), Prof. Dr. Mohamed A. Gomaa (Emeritus Professor), Mr. Medhat Naguib Eliwa (National Liaison Officer, EAEA), Prof. Dr. Ahmed Eid (Emeritus Professor), Prof. Dr. Gaber M. Hasseb (Emeritus Professor), Prof. Dr. Hafez El Fouly (Emeritus Professor), Dr. Tarek S. El Zakla (Assistant Professor), Ms. Vivyan Edward (EAEA Training Centre Manager).

Prof El-Kolaly presented the EAEA providing a general overview of the organizational structure, mission, activities and facilities. Prof. Soliman presented the education and training activities carried out within EAEA through the EAEA Training Centre.

The EduTA team briefed the host about the mission which constitutes an essential step in the procedure for appointing Regional Designated Centers (RDC) for Training in Radiation Protection in AFRA Member States. The objectives and the procedure for the conduct of the mission were presented.

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

During the five day mission, the EduTA team continued discussions with the host and visited facilities and laboratories at the EAEA sites in Nasr City and Inshas. The EduTA team met with the EAEA professional staff and also evaluated the facilities for conducting the practical exercises for possible PGEC or other regional training courses. Staff from the regulatory authorities (EAEA and Ministry of Health) was contacted to have information on the status of application of a recently promulgated law (Law 7 of 2010, promulgated in March 2010) that will establish a new regulatory authority and provide requirements for education, training, and qualification of personnel, working with ionizing radiations or with responsibilities in radiation protection.

An exit meeting was held at EAEA with the president of the EAEA and the professional staff to present the Appraisal Team's preliminary conclusions. The conclusions, recommendations and 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.