



IAEA

International Atomic Energy Agency

Atoms for Peace

DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY



EduTA

EDUCATION AND TRAINING APPRAISAL MISSION

IN

GHANA

14-16 July 2010

COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Andrea Luciani, Team Coordinator, IAEA
2. Mohammad Hassan Kharita, Senior Expert, Team Leader, Syria
3. Dimitriou Panaiotis, Senior Expert, Greece

PERSONS MET DURING THE APPRAISAL MISSION

Name	Designation
Prof. E.H.K. Akaho	DG ,GAEC
Prof. Y. Serfor –Armah	DDG ,GAEC
Prof. J.H. Amuasi	Coordinator of GSNAS
Prof. Cyril Schandorf	Head, Dept. of Nuclear Safety & Security , GSNAS
Prof. G. Emi-Reynolds	Director, RPB/RPI
Dr. E. O. Darko	Deputy Director RPI
Mr. J.K. Amoako	Head Regulatory Control Department
Mr . A. Faanu	Academic Welfare Officer, DN
Dr. (Mrs) Mary Boadu	Acting Director RAMSRI
Dr.J. Yeboah	Head ,Radiation Safety training Department
Dr G.K Banni	Research Scientist, NNRI
Dr. Kwame Danso	Head, NDT Lab
Dr Shiloh Osae	Head, Chemistry Department, NNRI
Mr. Emmanuel Ampomah	RSO ,GHARR-1 Centre
Mr. Prince Gyekye	Research Scientist ,RPI
Mr. Sylvester Annan	Technologist, RTC
Miss Ruby Yeboah	PAA, GSNAS, DNSAS

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 School of Nuclear and Allied Sciences (SNAS) of the University of Ghana and the Radiation Protection Institute (RPI) of the Ghana Atomic Energy Commission (GAEC) have applied together to host a RDC in Ghana. The documents, according to the procedure for appointing RDCs (Fig. 1 in “Application for Regional Designated Centers (RDC) for Training in Radiation Protection in AFRA Member States - Questionnaire”), were provided to the IAEA Secretariat that, after a preliminary review, approved the application and initiated the organization of an EduTA mission.

The EduTA mission was organized from 14 to 16 July with two external experts and an IAEA Technical Officer. The duration of the mission was limited to 3 days, considering that an EduTA mission was already carried out in 2008 (14 to 18 April 2008). The 2008 EduTA mission followed GAEC request of hosting IAEA Postgraduate educational course in radiation protection and safety of radiation sources (PGEC). According to the recommendations of the IAEA Steering Committee for Education and Training in Radiation Protection and Waste Safety, a detailed appraisal of the national training centre is needed prior to its recognition as a regional training centre able to run a PGEC. GAEC then requested a formal appraisal of the radiation protection education and training programme at SNAS to qualify as a future Regional Training Center of IAEA, to cover the national needs as well as to contribute towards meeting the existing needs of the African English speaking countries.

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:

- Education and Training Appraisal Mission in Ghana, 14-18 July 2008;
- 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 Director General of GAEC Prof. Akaho welcome the EduTA mission in the Headquarters of GAEC, in the presence of the counterpart Prof. C. Chandorf and the coordinator of the SNAS, Prof. J.H. Amuasi, and expressed his wishes to become an AFRA Regional Designated Centre (RDC). Prof. Amuasi gave an overview of the SNAS activities and provided the structure of GAEC and the other supporting organizations within GAEC.

The EduTA team briefed the hosts 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.

This EduTA mission can be considered as a follow up for the mission of 2008 and hence all recommendations and the action plan of that mission were followed up to make sure that they were implemented.

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 three day mission, the EduTA team continued discussions with the host and visited facilities/laboratories at the RPI and NNRI at the GAEC campus. The EduTA team met with potential lecturers and also visited the facilities for possible PGEC or other regional training courses. The team visited the SNAS facilities including the recently established Nuclear Security Support Centre, with the lecturing and conference rooms.

An exit meeting was held at SNAS with the management of GAEC and SNAS 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.

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