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Atoms for Peace

DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY



EduTA

EDUCATION AND TRAINING APPRAISAL MISSION

IN

MOROCCO

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COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Andrea Luciani, Team Coordinator, IAEA
2. Mohammad Hassan Kharita, Senior Expert, Team Leader, Syria
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PERSONS MET DURING THE APPRAISAL MISSION

Name	Designation
CNESTEN	
Khalid EL Mediouri	Directeur Général
Abdelmajid Çaoui	Secrétaire Général
Bouchra Nasri	Directeur PGEC
Itimad Soufi	Directrice Pôle Sûreté et Sécurité
Ali Jibre	Responsable du Pôle Valorisation de la Recherche
Khalid Laraki	Responsable Division Technique & Logistique
Boujemaa Zenzouni	Chef de service Coopération
Tayeb Marfak	Responsable Communication
Kamal Sahaimi	Responsable Centre de Certification en Contrôle Non Destructif (CND)
Ibrahim Oubelaid	Chef Unité Radioprotection & Sécurité Industrielle
Hamid Ghazlane	Responsable d'Unité de Dosimétrie et Réseaux
Brahim Zoubir	Chef de Division Sciences du Vivant
Abderrahim Bouih	Responsable Module Gestion des Déchets Radioactifs
Fatiha Zaoui	Responsable Unité Physique Médicale
Driss Riyach	Opérateur du Réacteur
Naïma Safsaf	Assurance Qualité
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Med Tahiri	Directeur Adjoint (Directeur des Etudes)
Loubna Berbich	Docteur en Physique
CNRP	
Med Tazi	Directeur
Rachida Guammoussi	Inspecteur
MEMEE	
Abdelaziz Hajjani	Chef du des Applications et de la Sûreté Nucléaire
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Salwa Boutayeb	Chef de Service Physique médicale

CNESTEN: Centre National de l'Energie, des Sciences et des Techniques Nucléaires

MEMEE: Ministère de l'Energie, des Mines, de l'Eau et de l'Environnement

EMI: Ecole Mohammadia d'Ingénieurs

CNRP: Centre National de Radioprotection

FMP: Faculté de Médecine et de Pharmacie

FSK: Faculté des Sciences de Kénitra

FSR: Faculté des Sciences de Rabat

IFCS: Institut de Formation aux Carrières de Santé de Rabat

INO: Institut National d'Oncologie

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 Centre National de l'Energie, des Sciences et des Techniques Nucléaires (CNESTEN) has applied to host a RDC in Morocco. 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.

An EduTA mission was organized from 10 to 12 November 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 2007 (11 - 15 June 2007) and as CNESTEN has organized, since 2002, on a regular basis, the IAEA Post Graduate Educational Course (PGEC) and is already a recognized IAEA Regional Training Centre for francophone African 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 Morocco, 11- 15 June 2007;
- 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 improvements, if any, identified during the assessment.

CONDUCT OF THE APPRAISAL

The Director General of CNESTEN K. El Mediouri welcome the EduTA mission in the Headquarters of CNESTEN, in the presence of the counterpart General Secretary A. Caoui and the PGEC course Director B. Nashri, and expressed his wishes to become an AFRA Regional Designated Centre (RDC). Mr. Caoui gave a presentation about the actions carried out and the achievements in the implementation of the Action Plan following the 2007 EduTA mission. Ms. Bouchra gave a presentation about the education and training activities at the CNESTEN with a particular overview on the organization of the PGEC.

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 of the 2007 mission 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. The team visited the CNESTEN – CENM (Centre d'Etudes Nucléaires de la Maâmora) facilities, CNRP (Centre National de Radioprotection) laboratories, the INO (Institut National d'Oncologie) radiotherapy and brachytherapy departments, and met the management of the IFCS (Institut de Formation aux Carrières de Santé de Rabat). The EduTA team met with lecturers and also visited the facilities used for the running of the PGEC. The EduTA team had also the opportunity to meet the PGEC trainees of the 7th course (11 October 2010 – 4 March 2011).

An exit meeting was held at CNESTEN with the management 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.