



IAEA

International Atomic Energy Agency

Atoms for Peace

DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY

EduTA

EDUCATION AND TRAINING APPRAISAL MISSION

IN

SINGAPORE

19-21 September 2005

COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Geetha Sadagopan, IAEA (Team Leader)
2. Russell Anderson, Senior Expert, United States of America

PERSONS MET DURING THE APPRAISAL MISSION

Health Sciences Authority – Centre for Radiation Protection	
Mr. Stephen Chong	Director
Ms. Annie Tan Soo Lian	Head, Ionising Radiation Control and Ionising Radiation Dosimetry Laboratory
Nanyang Polytechnic (NYP) – School of Health Sciences	
Mrs Lonh-Chung Chooi Fond	Director
Chin Jin Hon	Manager, Radiography
Vijaya Kumar Ramulu	Lecturer, Radiography
SETSCO Services PTE LTD	
Heng Keng Wah	Technical Consultant, NDT/Inspection
Nah Hock San	Engineer (Training)

BACKGROUND

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

- the Education and Training Appraisal in Radiation Protection and the Safety of Radiation Sources (EduTA) (draft revised document July 2005);
- the Safety Guide, Building Competence in Radiation Protection and the Safe Use of Radioactive Sources (RS-G-1.4);
- the Safety Report, Training in Radiation Protection and the Safe Use of Radioactive Sources (SRS-20);
- the Standard Syllabus Postgraduate Educational Course in Radiation Protection and the Safety of Radiation Sources;
- the Standard Syllabus for the Training of Radiation Protection Officers;

TERMS OF REFERENCE OF THE APPRAISAL

The terms of reference for the appraisal were:

- To evaluate the national infrastructure 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 education and training program for Regulatory Body staff (qualifications, training received to-date and planned for future);
 - the national training program 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;
 - education and training programs for the five thematic safety areas; and
 - a list of education and training events planned.
- To identify their training needs.
 - To prepare an assessment report including conclusions and recommendations for strengthening the national infrastructure for radiation protection training in Singapore.

CONDUCT OF THE APPRAISAL

The first step in the appraisal was the completion of a questionnaire by the counterpart. The questionnaire covered:

- the list of documentary information;
- the number of persons working with ionizing radiation; and
- the provisions for education and training

During the mission, the CRP provided the team with copies of relevant regulations.

The approach used for the assessment of the radiation safety infrastructure was based on the Education and Training Appraisal in Radiation Protection and the Safety of Radiation Sources (EduTA) (draft revised document, July 2005).

On the first morning of the mission, an introductory meeting was held with the Director of the Centre for Radiation Protection and the Head, Ionising Radiation Control and Ionising Radiation Dosimetry Laboratory. The purpose of the mission was explained and the Appraisal Team was provided with an overview briefing of the status and organization of the current radiation protection training activities in the country. Working discussions with the CRP continued throughout the appraisal.

The focus of the discussions was on the following areas: regulatory infrastructure for education and training; national strategy for building competence in radiation protection; education and training infrastructure and provisions for RPO training.

Visits were also made to:

- the Nanyang Polytechnic (NYP)
- SETSCO Services PTE LTD

An exit meeting was held on 21 September 2005 with the Director of the Centre for Radiation Protection and the Head, Ionising Radiation Control and Ionising Radiation Dosimetry Laboratory to present the Appraisal Team's preliminary conclusions and recommendations. The conclusions and recommendations 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 then national authorities.