

EXECUTIVE SUMMARY

At the request of the Government of the Republic of Ghana addressed to the International Atomic Energy Agency (IAEA) to conduct an Occupational Radiation Protection Appraisal Services (ORPAS) mission, the Agency organized the ORPAS in the Republic of Ghana during 5-9 December 2016 with a Team of three international experts that include a Team Leader and an Agency Coordinator. The Ghana Atomic Energy Commission (GAEC) acted as the national contact point for the mission.

The purpose of this mission was to appraise the regulatory and practical implementation of the occupational radiation protection arrangements in Ghana. Prior to this mission, a pre-mission was conducted to determine the participating organizations, arrange for a self-assessment by those organizations using the ORPAS questionnaires prepared by the Agency, and to agree upon the scope and dates of the mission. Accordingly, the organizations participated in the ORPAS mission were; the GAEC (national regulatory authority), one dosimetry service provider (GAEC), one Secondary Standard Dosimetry Laboratory (SSDL) (GAEC), various end-users including , a non-destructive testing company, four hospitals and the maintenance services in GAEC.

The review compared the Ghana's arrangements for occupational radiation protection against the IAEA Safety standards as the international benchmark for protection and safety. The mission was also used to exchange information and experience between the Team members and the Ghana's counterparts. GAEC provided the review team with advance materials that are relevant to the mission including the self-assessment carried out by the participating organizations.

This report provides the main findings, recommendations, and good practices identified during the mission. In general, the main conclusions of the mission are:

1. The Occupational Radiation Protection Programmes at the end user facilities are managed in compliance with the requirements stated in GSR Part 3;
2. The arrangements for provision of technical services comply with IAEA Safety Standards and other international standards such as those of ISO and IEC.

However, specific set of essential and important recommendations is directed to the Regulatory body and the Managements of the facilities that were covered during the ORPAS mission. Detailed of specific findings for the facilities are provided in Appendices I -VIII.