

## EXECUTIVE SUMMARY

At the request of the Government of the Republic of Nigeria 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 Nigeria during 10-15 July 2022 with a Team of five international experts that include a Team Leader and an Agency Coordinator. The Nigeria Nuclear Regulatory Authority (NNRA) 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 Nigeria. 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 NNRA (Nigerian Nuclear Regulatory Authority), two dosimetry service providers (Radiation Safety Technology (RST), and National Hospital Abuja), one Secondary Standard Dosimetry Laboratory (SSDL), Operators including, two non-destructive testing companies and two hospitals.

### REGULATORY BODY

- Nigerian Nuclear Regulatory Authority (NNRA)

### TECHNICAL SERVICE PROVIDERS

- Radiation Safety Technology (RST)
- National Hospital Abuja, Dosimetry Service Laboratory

### OPERATORS

- SGS Apapa Office
- Reddington Multi-Specialist Hospital (RMH), Diagnostic Radiology
- Dorman Long Engineering
- National Hospital Abuja, Diagnostic and radiation therapy

### RESEARCH AND EDUCATION

- National Institute of Radiation Protection and Research, Secondary Standards Dosimetry Laboratory

The review compared the Nigeria'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 Nigeria's counterparts. NNRA 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 Operator 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 recommendations and suggestions is directed to the Regulatory body and the Managements of the facilities that were covered during the ORPAS mission. Detailed specific findings for the facilities are provided in Appendices I -VIII.