

International Conference on the Safety of Radioactive Waste Management, Decommissioning, Environmental Protection and Remediation: Ensuring Safety and Enabling Sustainability



Contribution ID: 326

Type: **ORAL**

The Contribution of Graded Approach Safety Inspection for sustainability

The applications of radioactive sources for peace full purposes are steadily increasing globally in health, agriculture, water resource management, energy and industrial sectors, research institutes and other areas. The users of radiation technology should establish their national framework and infrastructure in line with international radiation safety standards since they are key enablers and a pre-condition for sustainable application of nuclear science and technology. According to GSR Part 1, a regulatory body shall perform its functions in a graded approach commensurate with the radiation risks associated with facilities and activities. In view of this, graded approach safety inspection is one of the vital elements of regulatory functions to discharge responsibilities according to safety significance and complexity for sustainable utilization of the technology with minimized risks. Due to the applications different categories of radiation sources in various sectors, a regulatory body should prioritize and implement its activities in accordance with a graded approach to optimize resources and enhance the efficiency and effectiveness of the regulatory control.

This paper presents the importance of applying safety standards in a risk-informed graded approach, implementation of the graded approach integrating technical aspects with other safety factors such as organizational situation (management, leadership, human resource, safety culture, and budget), the main requirements associated with safety categorization during an inspection and the role of the management system for graded approach safety inspection to bring sustainability, and conclusions.

Primary author: Mr AREGGA, Berihun Asfaw

Presenter: Mr AREGGA, Berihun Asfaw

Track Classification: Track 2 - Managing the interrelationships in policy, strategy, legislation, and regulation