

Systematic Approach to Safety and Security; Challenges and Opportunities

National nuclear programs consist of different nuclear and radiological activities with advanced technologies operating in a complex regulatory environment. It shall consider the development of proper organizational culture for nuclear safety and nuclear security that involves the key organizations and individuals in a number of diverse disciplines; who must work together in harmony to be effective. Within the nuclear industry the work performance is directly related to human, organizational and cultural factors that when untoward events happen they cannot be scaled down to the failure of any single element or component. Rather, events emerge from the dynamic interactions between number of factors as knowledge, decisions, thoughts, emotions, actions, physical technologies, equipment, management systems, knowledge management, organizational structure, governance, and human and financial resources. Harmonization the development of nuclear safety and security culture and handling the interfaces between them is great global concern. The paper introduces the importance of generation analysis for the nuclear leaders and gives recommendation on the motivation tactics based on the generation map of Egypt. Apply the systemic approach to safety and security within the nuclear interested parties address these risks by examining how the complex interactions between human, technical, and organizational factors produce safety and security on a day-to-day basis. But it has to consider the nature of the organization if regulator, owner, vendor, or others, and the main features of the national culture. The work show the challenges and opportunities of using the systematic approach for safety and security taking into consideration the generation map and the specific characteristics and behaviors of each generation.

State

Egypt

Gender

Female

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