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## Nuclear Security of Research Reactors: The Effective use of INSSP process and Building a Robust Regime

The objective of a States nuclear security regime is to protect persons, property, society, and the environment from the harmful consequences of a nuclear security event. To accomplish this aim States exert enough efforts in establishing, implementing, maintaining and sustaining an effective and appropriate nuclear security regime to prevent, detect and respond to such nuclear security events.

Nuclear and radioactive material could be misused to be a part of malicious acts and this is regarded as a serious threat to international security and peace. It is well known that the state has many responsibilities to construct nuclear security and that appropriate and effective national systems for nuclear security are vital in facilitating the uses of nuclear energy peacefully and enhancing global efforts to combat nuclear terrorism. The IAEA-developed Integrated Nuclear Security Support Plan (INSSP) provides States, upon request, with a systematic and comprehensive framework for reviewing their nuclear security regimes and identifying areas where they need to be strengthened. The Plans also highlight any support required to help in developing an effective and sustainable nuclear security regime. Because of its flexible and tailored approach, the INSSP can be useful for all States regardless of their nuclear security regime status.

The paper discusses the importance of nuclear security system within a research reactor facility and it highlights the most important elements of establishing, maintaining and sustaining a robust nuclear security regime. It also focuses on the INSSP purpose, INSSP development process, organizations usually involved in implementing activities in INSSPs and INSSP Nuclear Security Activity Categories. Finally, the paper overviews the assistance of the IAEA to states Integrated Nuclear Security Support Plan and the effect of this assistance to enhance and maintain its national nuclear security regime.

Eventually, building an effective and efficient nuclear security regime is essential for any state. Such a system to be robust should apply fundamental issues that are mentioned in IAEA publications. IAEA helps states in enhancing and developing its nuclear security regime through IPPAS and INSSP. INSSP aims at developing legislative and Regulatory Framework, prevention, detection, response and sustainability (Human Resource Development).

## Gender

Male

## State

Egypt

**Author:** SHABAN, Sameh (lecturer)

Co-authors: HAZZAA, Mohamed Helmy Mohamed (Egypt); Dr EL-TAYEBANY, Rasha (Egyptian Nuclear and

Radiological Regulatory Authority (ENRRA), )

Presenter: SHABAN, Sameh (lecturer)

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