

IAEA's Technical support for Establishing Requirements for the Security Up-Grades at Egypt's Second Research Reactor Complex

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Abstract

The International Physical Protection Advisory Services (IPPAS) mission has been conducted by IAEA for the Egyptian Atomic Energy Authority (EAEA) in December 2005. The purpose of the IPPAS has been to provide advice and assistance to strengthen the effectiveness of the physical protection systems of Egypt's second research reactor (ETRR-2) nuclear complex. The purposes of that work is to development and finalize an action plan for the technical upgrade of the physical protection system, and contribute in the implementation of IPPAS mission recommendation, of ETRR-2.

The main objective of this paper is to introduce the upgrading process of the physical protection systems at ETRR-2 nuclear complex, the work determines and recovering for the weakness points in security systems on site and insure the sustainability of the physical protection system to verify; it meets the Regulatory and IAEA requirements.

This paper will present the processes and approaches adopted by the Egypt's second research reactor for inspecting and evaluating nuclear security aspects and interface of inspection with safety

This paper determines the operational requirements for the physical protection system; devices, equipment, and the systems needed to be upgraded as a part of ETRR-2 overall physical protection systems. The paper will explain how to create the statement of work (SOW), which includes the required specification and the system issues; protection, detection, surveillance television, alarm and access control. The works shows the central alarm station management, security grating barriers and entry check-point's equipment and devices used in inspection deepening on the regulatory requirements.

The work introduces the issues and challenges currently faced and explain the possible solutions. The work presents the techniques and strategy has been used for developing the physical protection systems in order to assist, the second reactor complex, in enhancing its facilities capabilities in nuclear security and improving the nuclear security regimes

Keywords: Central Alarm Stations (CASs), Isolation zone strengthen, Contraband systems, Intrusion Detection system, Access control system

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