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Cyber Security in the Nuclear and Radiological Domain: Case Study of Republic of Moldova

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In this paper we will reflect upon the importance of cyber security in the functioning of physical security systems in nuclear/radiological entities, as well as the corresponding changes that are foreseen in the process of authorization and monitoring by the National Agency for Regulation of Nuclear and Radiological Activity (Regulatory Body). The recent developments in information technology (IT) have led to the fact that each system that contains IT components, is subject to cyber security risks, including industrial control systems which are often used in nuclear/radiological facilities. As a case study we will present the current situation in Moldova, and we will present briefly various methods to enforce cyber security control implementation in order to reduce cybersecurity risks in entities that deal with nuclear/radiological data.