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An integration of Nuclear Safeguards with Nuclear Security

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In recent years, the need to achieve a better integration between two basic pillars of nuclear energy; safeguards and security (2S) has become widely recognized. This paper proposes an integration of 2S such that there are no overlap or omission of important responsibilities. An effective implementation of 2S assures the seriousness of a State for peaceful uses of nuclear energy and integrating the two can optimise the available resources, techniques and expertise within a State. Various examples of 2S integration is presented in this paper. Implementing integrated 2S by design, coordinated use of surveillance systems, nuclear material tracking systems in a nuclear facility ensures effective utilization of resources with shared responsibilities. The integration of 2S in the field of nuclear material accounting and control not only promotes the timely detection but also prevent diversion of nuclear material. An integration of export control with safeguards strengthen State's non-proliferation objectives.

The international cooperation plays a vital role in improving the effectiveness of integration between nuclear safeguards and security. This paper will highlight commonalities between the objectives of various international binding and non-binding instruments like CPPNM, UNSCR 1540, ICSANT, Code of Conduct on safety and security of radioactive sources etc. with safeguards. In addition, the coordination of the global centre of excellences (COE) with R & D initiatives of State would enhance state's capabilities of containment and surveillance systems, physical protection systems, various verification mechanisms and nuclear forensics systems etc. Responsible sharing of information e.g. best practices, implementing experiences, security breach incidents, nuclear accidents, nuclear material theft etc. can provide a platform to develop response mechanisms to protect the human, environment from act of terrorism.

Which "Key Question" does your Abstract address?

CHA2.4

Which alternative "Key Question" does your Abstract address? (if any)

SGI3.5

Topics

CHA2

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