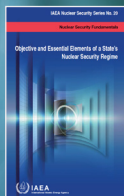
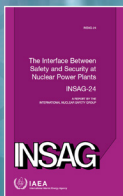
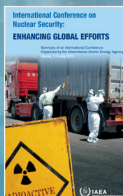


Nuclear Security



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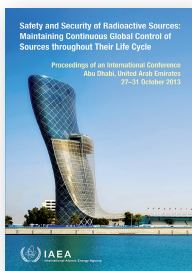
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Atoms for Peace

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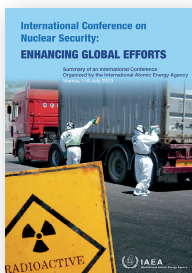
Safety and Security of Radioactive Sources: Maintaining Continuous Global Control of Sources throughout Their Life Cycle

Proceedings of an International Conference held in Abu Dhabi, United Arab Emirates, 27–31 October 2013

Proceedings Series

The IAEA works with its Member States to help them ensure the safety and security of radioactive sources. The purpose of this conference was to review current success and challenges in ensuring the safety and security of radioactive sources and to identify means to maintain the highest level of safety and security throughout their life cycle, from manufacture to disposal. These proceedings contain the opening addresses, the invited and contributed papers presented during the sessions, and summaries of the discussions. The accompanying CD-ROM contains the presentations of most of the papers presented orally, as well as the complete text of the printed volume. The CD-ROM also contains the national reports on implementation of the Code of Conduct submitted to the conference by states, as per the formalized process established in 2006.

English Edition (783 pp., 134 figs; 2015) • ISBN 978-92-0-105214-8 • STI/PUB/1667 • €90.00



Nuclear Security: Enhancing Global Efforts

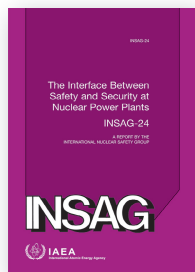
Proceedings of an International Conference held in Vienna, Austria, 1–5 July 2013

Proceedings Series

This publication presents the proceedings of an international conference on nuclear security, which was convened at the IAEA's headquarters in Vienna, the first such

conference to include ministerial level participation. The conference adopted a ministerial declaration and provided a forum where experiences and lessons learned could be discussed. Ideas were exchanged to identify emerging trends and to consider medium and long term objectives for international nuclear security efforts, as well as to inform the development of the IAEA's Nuclear Security Plan 2014–2017. The President's summary highlights the main conclusions and key issues, drawing on the reports from the sessions. The conference attracted more than 1300 registered participants from 125 Member States, 34 of which were represented at ministerial level, and 21 intergovernmental and non-governmental organizations.

**English Edition (119 pp.; 2014) • ISBN 978-92-0-101514-3 •
STI/PUB/1643 • €90.00**



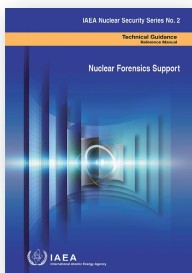
The Interface Between Safety and Security at Nuclear Power Plants

INSAG Series No. 24

This publication seeks to provide a better understanding of the interface between safety and security at nuclear power plants and to discuss the means to achieve both objectives in an optimal fashion. It provides information in a background chapter on the existing relevant documentation, discusses the expectations for administrative arrangements at different levels, surveys certain common principles, and suggests general solutions that can help ensure an integrated approach. Conclusions are drawn and high level recommendations are proposed with the goal of maximizing the protection of the public, property, society and the environment through an improved and strengthened interface between safety and security.

**English Edition (24 pp.; 2010) • ISBN 978-92-0-107910-7 •
STI/PUB/1472 • €22.00**

**Russian Edition (34 pp.; 2014) • ISBN 978-92-0-405914-4 •
STI/PUB/1472 • €22.00**



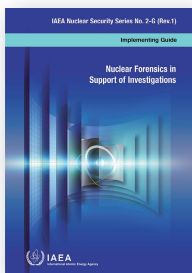
Nuclear Forensics Support

IAEA Nuclear Security Series No. 2

Nuclear scientists have recognized that much can be learned from the analysis of reported cases of illicit trafficking of nuclear and other radioactive material, specifically, what the material has been used for, where it was obtained from (stock, scrap or waste) and whether the amount seized was only a sample of a much more significant quantity. These and many other questions can be answered through detailed technical characterization of seized material samples. The combination of scientific methods used for this purpose is normally referred to as nuclear forensics, which has become an indispensable tool for use in law enforcement investigations of nuclear trafficking. This publication is unique in bringing together for the first time a concise but comprehensive description of the various tools and procedures of nuclear forensic investigations that have been described independently in the scientific literature. It also incorporates the experience accumulated over the past decade by law enforcement agencies and nuclear forensics laboratories confronted with cases of illicit events involving nuclear or other radioactive materials.

Chinese Edition (64 pp., 4 figs; 2012) • ISBN 978-92-0-526910-8 • STI/PUB/1241 • €26.00

English Edition (67 pp., 4 figs; 2006) • ISBN 92-0-100306-4 • STI/PUB/1241 • €26.00



Nuclear Forensics in Support of Investigations

IAEA Nuclear Security Series No. 2-G (Rev.1)

This publication is a revision of IAEA Nuclear Security Series No. 2, Nuclear Forensics Support, which was published in 2006. Since then, there has been substantive expansion and confidence in the application of nuclear forensics globally to effectively counter the

threat of nuclear and other radioactive materials out of regulatory control. Most significantly, nuclear forensics has been applied in response to a number of incidents involving the illicit trafficking of highly enriched uranium and plutonium. The essential lessons learned from these experiences are incorporated in the revised publication to update the procedures and methods used in the conduct of a nuclear forensic examination as well as stress the importance of international cooperation.

English Edition (Forthcoming 2015) • ISBN 978-92-0-102115-1 • STI/PUB/1687 • €38.00



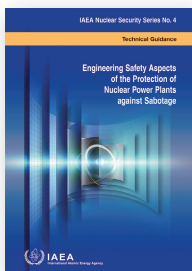
Monitoring for Radioactive Material in International Mail Transported by Public Postal Operators

IAEA Nuclear Security Series No. 3

The illegal transport of conventional explosives and biological material has been observed in public mail and could lead to serious health hazards. In response to Member State requests to establish guidance on detecting the movement of radioactive material in international mail, the IAEA and the Universal Postal Union (UPU) undertook a joint effort to prepare this publication. It considers how radioactive materials in international mail might be detected, how best to monitor for these materials in mail facilities and how to respond appropriately. This publication provides a concise but comprehensive description of the various techniques and equipment used to detect and control radioactive material during mail processing.

Chinese Edition (38 pp., 4 figs; 2012) • ISBN 978-92-0-523210-2 • STI/PUB/1242 • €23.00

English Edition (39 pp., 4 figs; 2006) • ISBN 92-0-100406-0 • STI/PUB/1242 • €23.00



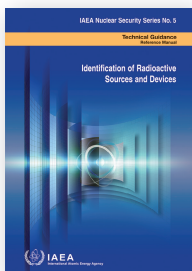
Engineering Safety Aspects of the Protection of Nuclear Power Plants against Sabotage

IAEA Nuclear Security Series No. 4

This report provides guidelines for evaluating the engineering safety aspects of the protection of nuclear power plants against sabotage. The guidance, which is the result of extensive dialogue among safety and security specialists, takes into account the existing robustness of structures, systems and components and emphasizes those aspects of sabotage protection that work synergistically with the protection against extreme external occurrences of accidental origin, such as earthquakes, tornadoes and human induced events. The report introduces a defence in depth approach to sabotage protection, with layers comprising safety and security related systems and activities, and promotes self-assessment by the licensee in cooperation with the required interfaces with the competent authorities.

Chinese Edition (56 pp., 1 fig.; 2012) • ISBN 978-92-0-523310-9 • STI/PUB/1271 • €30.00

English Edition (58 pp., 1 fig.; 2007) • ISBN 92-0-109906-1 • STI/PUB/1271 • €30.00



Identification of Radioactive Sources and Devices

IAEA Nuclear Security Series No. 5

This manual has been produced as part of the IAEA's Action Plan for the Safety of Radiation Sources and Security of Radioactive Material. It is intended to: assist in the recognition and identification of objects thought to be radioactive devices, sources and transport packages; provide instruction on what to do and how to obtain further help; enhance awareness of the existence of radioactive devices, sources and transport packages; and provide information on the International Catalogue of Sealed Radioactive Sources and Devices through regulatory authorities

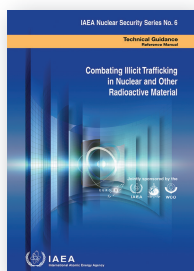
in IAEA Member States. It will also help in identifying sources involved in events that are reported for inclusion in the IAEA's Illicit Trafficking Database.

Chinese Edition (140 pp., 148 figs; 2011) • ISBN 978-92-0-518010-6 • STI/PUB/1278 • €45.00

English Edition (138 pp., 148 figs; 2007) • ISBN 92-0-111406-0 • STI/PUB/1278 • €45.00

French Edition (150 pp., 148 figs; 2009) • ISBN 978-92-0-205009-9 • STI/PUB/1278 • €45.00

Spanish Edition (146 pp., 148 figs; 2009) • ISBN 978-92-0-300209-7 • STI/PUB/1278 • €45.00



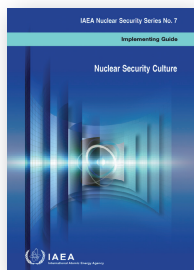
Combating Illicit Trafficking in Nuclear and Other Radioactive Material

IAEA Nuclear Security Series No. 6

This publication is intended for individuals and organizations that may be called upon to deal with the detection of and response to criminal or unauthorized acts involving nuclear or other radioactive material. It will also be useful for legislators, law enforcement agencies, government officials, technical experts, lawyers, diplomats and users of nuclear technology. In addition, the manual emphasizes the international initiatives for improving the security of nuclear and other radioactive material, and considers a variety of elements that are recognized as being essential for dealing with incidents of criminal or unauthorized acts involving such material.

English Edition (143 pp., 23 figs; 2007) • ISBN 978-92-0-109807-8 • STI/PUB/1309 • €40.00

Chinese Edition (140 pp., 23 figs; 2012) • ISBN 978-92-0-526710-4 • STI/PUB/1309 • €40.00



Nuclear Security Culture

IAEA Nuclear Security Series No. 7

This publication defines the basic concepts and elements of nuclear security culture, with the aim of providing Member States with international consensus guidance on planning and implementing a programme to improve

nuclear security culture. Particular emphasis is placed on areas such as regulation, government institutions and general public awareness. The report provides an overview of the necessary attributes of an effective nuclear security culture and emphasizes that its success is ultimately dependent on individuals: policy makers, regulators, managers, individual employees and, to a certain extent, members of the general public. Practical methods to assess and improve the effectiveness of security culture are also included.

Arabic Edition (43 pp., 2 figs; 2012) • ISBN 978-92-0-623810-3 •

STI/PUB/1347 • €30.00

Chinese Edition (36 pp., 2 figs; 2012) • ISBN 978-92-0-526410-3 •

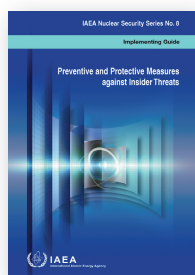
STI/PUB/1347 • €30.00

English Edition (37 pp., 2 figs; 2008) • ISBN 978-92-0-107808-7 •

STI/PUB/1347 • €30.00

French Edition (41 pp., 2 figs; 2009) • ISBN 978-92-0-206509-3 •

STI/PUB/1347 • €30.00



Preventive and Protective Measures against Insider Threats

IAEA Nuclear Security Series No. 8

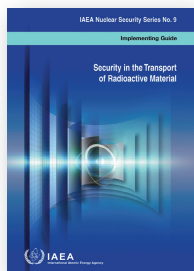
This implementing guide presents a comprehensive methodology for the development of preventive and protective measures against insider threats to nuclear facilities and nuclear

material transport operations of all types. Institutional insiders who are privy to the inner workings of security systems present a unique challenge to the establishment of effective control systems for nuclear material. They generally possess access rights which, together with their authority and knowledge of facilities, grant them far greater opportunity than any outsider to bypass dedicated physical protection elements or other provisions such as safety systems and operating procedures. Furthermore, insiders, as trusted persons, are capable of methods of defeat that are not available to outsiders. This publication provides guidance and measures for reducing these and other risks posed by insiders.

Chinese Edition (25 pp., 2 figs; 2012) • ISBN 978-92-0-526310-6 •

STI/PUB/1359 • €20.00

English Edition (25 pp., 2 figs; 2008) • ISBN 978-92-0-109908-2 • STI/PUB/1359 • €20.00
 French Edition (29 pp., 2 figs; 2013) • ISBN 978-92-0-236710-4 • STI/PUB/1359 • €20.00
 Russian Edition (36 pp., 2 figs; 2009) • ISBN 978-92-0-411709-7 • STI/PUB/1359 • €20.00



Security in the Transport of Radioactive Material

IAEA Nuclear Security Series No. 9

This publication addresses the vulnerability of radioactive material during transport. Given the international concern over acts of nuclear terrorism, it is imperative to have a well defined plan for the security of sensitive materials during transport. This publication provides guidance on implementing, maintaining or enhancing a State's nuclear security regime to protect radioactive material in transport against theft, sabotage or other malicious acts. It will be of use to regulators and to operating personnel engaged in the transport of such material.

Chinese Edition (38 pp., 1 fig.; 2012) • ISBN 978-92-0-523410-6 • STI/PUB/1348 • €20.00
 English Edition (39 pp., 1 fig.; 2008) • ISBN 978-92-0-107908-4 • STI/PUB/1348 • €20.00
 French Edition (41 pp., 1 figs; 2012) • ISBN 978-92-0-233210-2 • STI/PUB/1348 • €20.00
 Spanish Edition (41 pp., 1 fig.; 2013) • ISBN 978-92-0-344410-1 • STI/PUB/1348 • €20.00



Development, Use and Maintenance of the Design Basis Threat

IAEA Nuclear Security Series No. 10

This publication provides guidance on how to develop, use and maintain a design basis threat (DBT). It is intended for decision makers from organizations with roles and responsibilities for the development, use and maintenance of the DBT. This implementing guide describes a DBT; identifies and recommends the roles and responsibilities of

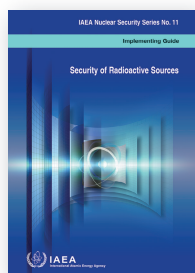
organizations that should be involved in the development, use and maintenance of a DBT; describes how to conduct a national threat assessment as a precursor to a DBT; explains how a DBT can be developed; explains how a DBT is incorporated into a State's nuclear security regime; and explains the conditions for review of the DBT, and how the review and update are conducted.

Arabic Edition (39 pp., 3 figs; 2012) • ISBN 978-92-0-634910-6 • STI/PUB/1386 • €18.00

Chinese Edition (28 pp., 3 figs; 2012) • ISBN 978-92-0-523510-3 • STI/PUB/1386 • €18.00

English Edition (30 pp., 3 figs; 2009) • ISBN 978-92-0-102509-8 • STI/PUB/1386 • €18.00

French Edition (34 pp., 3 figs; 2012) • ISBN 978-92-0-232810-5 • STI/PUB/1386 • €18.00



Security of Radioactive Sources

IAEA Nuclear Security Series No. 11

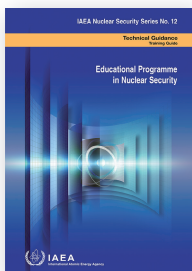
There are concerns that terrorist or criminal groups could gain access to high activity radioactive sources and use these sources maliciously. The IAEA is working with Member States to increase control, accounting and security of radioactive sources to prevent their malicious use and the associated potential consequences. Based on extensive input from technical and legal experts, this implementation guide sets forth guidance on the security of sources and will serve as a useful tool for legislators and regulators, physical protection specialists, and facility and transport operators, as well as for law enforcement officers.

Arabic Edition (80 pp.; 2011) • ISBN 978-92-0-621610-1 • STI/PUB/1387 • €25.00

Chinese Edition (60 pp.; 2011) • ISBN 978-92-0-517910-0 • STI/PUB/1387 • €25.00

English Edition (66 pp.; 2009) • ISBN 978-92-0-102609-5 • STI/PUB/1387 • €25.00

French Edition (73 pp.; 2012) • ISBN 978-92-0-232910-2 • STI/PUB/1387 • €25.00



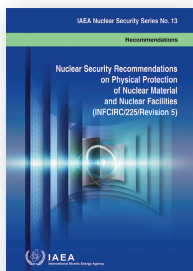
Educational Programme in Nuclear Security

IAEA Nuclear Security Series No. 12

Higher education plays an essential role in nuclear security capacity building. It ensures the availability of experts able to provide the necessary competencies for effective national nuclear security oversight of nuclear and other radioactive material and to establish and maintain an appropriate nuclear regime in a State. This guide presents both the theoretical knowledge and the practical skills necessary to meet the requirements described in the international framework for nuclear security. Emphasis is placed on the implementation of these requirements and recommendations in States. On the basis of this guide, a university should be able to develop its own academic programme tailored to suit State specific educational needs in the area of nuclear security and to meet national requirements.

Chinese Edition (170 pp., 1 fig.; 2012) • ISBN 978-92-0-523110-5 • STI/PUB/1439 • €42.00

English Edition (168 pp., 1 fig.; 2010) • ISBN 978-92-0-101710-9 • STI/PUB/1439 • €42.00



Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Revision 5)

IAEA Nuclear Security Series No. 13

This publication, Revision 5 of Nuclear Security Recommendation on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225), is intended to provide guidance to States and their competent authorities on how to develop or enhance, implement and maintain a physical protection regime for nuclear material and nuclear facilities, through the establishment or improvement of their capabilities to

implement legislative and regulatory programmes. The recommendations presented in this publication reflect a broad consensus among IAEA Member States on the requirements which should be met for the physical protection of nuclear materials and nuclear facilities.

Arabic Edition (60 pp.; 2011) • ISBN 978-92-0-624510-1 •

STI/PUB/1481 • €28.00

Chinese Edition (49 pp.; 2012) • ISBN 978-92-0-526210-9 •

STI/PUB/1481 • €28.00

English Edition (57 pp.; 2011) • ISBN 978-92-0-111110-4 •

STI/PUB/1481 • €28.00

French Edition (63 pp.; 2012) • ISBN 978-92-0-222110-9 •

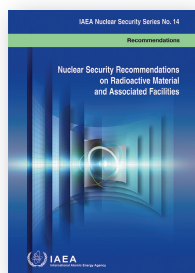
STI/PUB/1481 • €28.00

Russian Edition (69 pp.; 2011) • ISBN 978-92-0-424110-5 •

STI/PUB/1481 • €28.00

Spanish Edition (61 pp.; 2012) • ISBN 978-92-0-324610-1 •

STI/PUB/1481 • €28.00



Nuclear Security Recommendations on Radioactive Material and Associated Facilities

**IAEA Nuclear Security Series
No. 14**

The purpose of this publication is to provide guidance to States and competent authorities on how to develop or enhance, implement and maintain a nuclear security regime for facilities dealing with radioactive material and associated activities. This is to be achieved through the establishment or improvement of their capabilities to implement a legislative and regulatory framework to address the security of radioactive material, and of associated facilities and activities, in order to reduce the likelihood of malicious acts involving such material. These recommendations reflect a broad consensus among States on the requirements which should be met for the security of radioactive material, and associated facilities and activities.

Arabic Edition (30 pp.; 2011) • ISBN 978-92-0-624710-5 •

STI/PUB/1487 • €22.00

Chinese Edition (25 pp.; 2012) • ISBN 978-92-0-524010-7 •

STI/PUB/1487 • €22.00

English Edition (27 pp.; 2011) • ISBN 978-92-0-112110-3 •

STI/PUB/1487 • €22.00

French Edition (29 pp.; 2012) • ISBN 978-92-0-222410-0 •

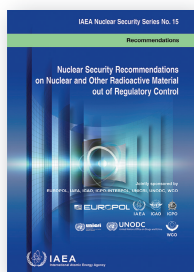
STI/PUB/1487 • €22.00

Russian Edition (35 pp.; 2011) • ISBN 978-92-0-422310-1 •

STI/PUB/1487 • €22.00

Spanish Edition (47 pp.; 2012) • ISBN 978-92-0-325010-8 •

STI/PUB/1487 • €22.00



Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control

**IAEA Nuclear Security Series
No. 15**

This publication presents recommendations for the nuclear security of nuclear and other radioactive material that is out of regulatory control. It is based on national experience and practices and guidance publications in the field of security as well as the nuclear security related international instruments. The recommendations include guidance for States with regard to the nuclear security of nuclear and other radioactive material that has been reported as being out of regulatory control as well as of material that is lost, missing or stolen but has not been reported as such, or has been otherwise discovered. In addition, these recommendations adhere to the detection and assessment of alarms and alerts and to a graded response to criminal or unauthorized acts with nuclear security implications.

Arabic Edition (34 pp.; 2012) • ISBN 978-92-0-635210-6 •

STI/PUB/1488 • €23.00

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STI/PUB/1488 • €23.00

English Edition (33 pp.; 2011) • ISBN 978-92-0-112210-0 •

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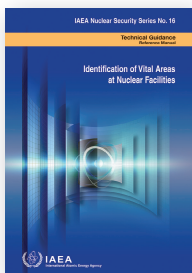
STI/PUB/1488 • €23.00

Russian Edition (44 pp.; 2011) • ISBN 978-92-0-423010-9 •

STI/PUB/1488 • €23.00

Spanish Edition (51 pp.; 2012) • ISBN 978-92-0-324410-7 •

STI/PUB/1488 • €23.00

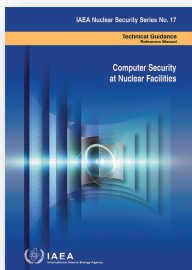


Identification of Vital Areas at Nuclear Facilities

IAEA Nuclear Security Series No. 16

This publication provides detailed guidance with regard to the identification of vital areas at nuclear facilities. It presents a structured approach to identifying those areas that contain equipment, systems and components to be protected against sabotage. The process for selection of a specific set of vital areas to be protected is based on consideration of the potential radiological consequences of sabotage, and on the design, operational and safety features of a nuclear facility. The method builds upon safety analysis to develop logic models for sabotage scenarios that could cause unacceptable radiological consequences. The sabotage actions represented in the logic models are linked to the areas from which they can be accomplished. The logic models are then analysed to determine areas that should be protected to prevent these unacceptable radiological consequences. The publication is part of a set of supporting publications in the IAEA Nuclear Security Series with the aim of assisting States in the design, implementation and evaluation of their physical protection systems for nuclear material and nuclear facilities.

English Edition (37 pp., 2 figs; 2013) • ISBN 978-92-0-114410-2 • STI/PUB/1505 • €22.00



Computer Security at Nuclear Facilities

IAEA Nuclear Security Series No. 17

This publication provides guidance specific to nuclear facilities on implementing a computer security programme and evaluating existing programmes. The use of computer systems to cover an increasing range of functions at nuclear facilities introduces new vulnerabilities that could seriously endanger nuclear

security if not addressed in a rigorous and balanced manner. Digital systems are increasingly being introduced in safety, safety related and security systems throughout facilities. Non-availability or malfunction of these systems can seriously impact nuclear safety and security, and potentially facilitate sabotage of the facility and/or theft of material. Computer security must, therefore, be a key component of overall facility security.

Arabic Edition (76 pp., 7 figs; 2013) • ISBN 978-92-0-642210-6 • STI/PUB/1527 • €33.00

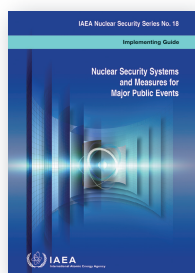
Chinese Edition (62 pp., 7 figs; 2012) • ISBN 978-92-0-536110-9 • STI/PUB/1527 • €33.00

English Edition (69 pp., 7 figs; 2011) • ISBN 978-92-0-120110-2 • STI/PUB/1527 • €33.00

French Edition (75 pp., 7 figs; 2013) • ISBN 978-92-0-237010-4 • STI/PUB/1527 • €33.00

Russian Edition (80 pp., 7 figs; 2012) • ISBN 978-92-0-435510-9 • STI/PUB/1527 • €33.00

Spanish Edition (75 pp., 7 figs; 2013) • ISBN 978-92-0-337310-4 • STI/PUB/1527 • €33.00



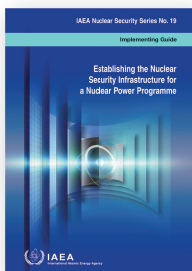
Nuclear Security Systems and Measures for Major Public Events

IAEA Nuclear Security Series No. 18

This publication provides an overview, based on practical experience and lessons learned, for establishing nuclear security systems and measures for major public events. It covers technical and administrative nuclear security measures for developing the necessary organizational structure, developing plans, strategies and concepts of operations, and making arrangements for implementing the developed plans, strategies and concepts.

English Edition (56 pp., 14 figs; 2012) • ISBN 978-92-0-127010-8 • STI/PUB/1546 • €30.00

Russian Edition (67 pp., 14 figs; 2014) • ISBN 978-92-0-401414-3 • STI/PUB/1546 • €30.00

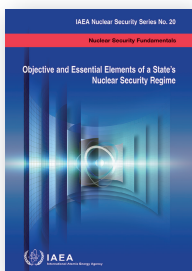


Establishing the Nuclear Security Infrastructure for a Nuclear Power Programme

IAEA Nuclear Security Series No. 19

This publication provides guidance on the actions to be taken by a State in implementing an effective nuclear security infrastructure for a nuclear power programme. The topics covered are: development of national policy and strategy; common nuclear security measures; infrastructure issues relating to nuclear and other radioactive material; associated facilities; and cooperation with other States. The guidance provided is intended primarily for use by national policy makers, national legislators, competent authorities, institutions and individuals involved in the establishment, implementation, maintenance or sustainability of the nuclear security infrastructure for a nuclear power programme.

English Edition (73 pp., 1 fig.; 2013) • ISBN 978-92-0-138010-4 • STI/PUB/1591 • €29.00



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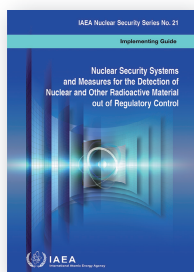
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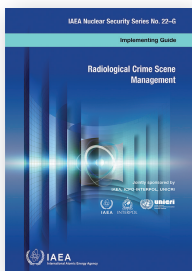


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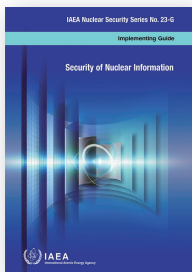


Radiological Crime Scene Management

IAEA Nuclear Security Series No. 22-G

Radiological crime scene management is the process used to ensure safe, secure, effective and efficient operations at a crime scene where nuclear or other radioactive materials are known, or suspected, to be present. Managing a radiological crime scene is a key part of responding to a nuclear security event. Evidence collection at radiological crime scenes may share a wide range of characteristics with that at conventional crime scenes, such as evidence search patterns, geographical scene modelling and evidence recording, whether or not explosives are involved. This publication focuses on the framework and functional elements for managing a radiological crime scene that are distinct from any other crime scene. It assumes that States have a capability for managing conventional crime scenes.

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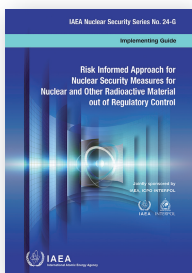
Security of Nuclear Information

IAEA Nuclear Security Series No. 23-G

This publication provides guidance on implementing the principle of confidentiality and on the broader aspects of information security (i.e. integrity and availability). It assists States in bridging the gap between existing government and industry standards on information security, the particular concepts and considerations that apply to nuclear security and the special provisions and conditions that exist when dealing with nuclear material and other radioactive material. Specifically it seeks to assist States in the identification, classification, and assignment of

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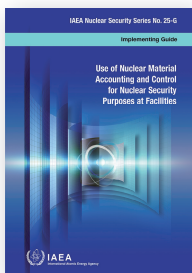


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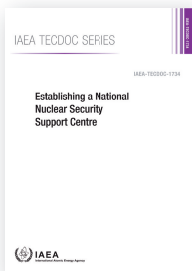
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