

# Training In Radiation Protection And The Safe Use Of Radiation Sources Safety Reports Series

Radiation Protection and Safety of Radiation Sources Safety of Radiation Generators and Sealed Radioactive Sources Principles for the Exemption of Radiation Sources and Practices from Regulatory Control Regulatory Control of Radiation Sources Radiation Safety in the Use of Radiation Sources in Research and Education Safety of Radiation Sources and Security of Radioactive Materials Building Competence in Radiation Protection and the Safe Use of Radiation Sources Safe Handling of Radiation Sources Energy Resources and Government, Materials Submitted to the Subcommittee on Automation and Energy Resources by Federal and State Regulatory and Developmental Agencies .... Training in Radiation Protection and the Safe Use of Radiation Sources Identification of Radioactive Sources and Devices Medical Management of Radiation Accidents Categorization of Radiation Sources Sources and Effects of Ionizing Radiation: Sources Safety and Security of Radioactive Sources Categorization of Radioactive Sources Nuclear Science Abstracts Introduction to Radiation Protection Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards Selection of Radiation Sources in Radiography International Atomic Energy Agency International Atomic Energy Agency International Atomic Energy Agency International Atomic Energy Agency IAEA International Atomic Energy Agency Martin Oberhofer United States. Congress. Economic Joint Committee International Atomic Energy Agency Kenneth S. Cohen International Atomic Energy Agency United Nations. Scientific Committee on the Effects of Atomic Radiation International Atomic Energy Agency International Atomic Energy Agency Claus Grupen IAEA N. W. D. Chrimes Radiation Protection and Safety of Radiation Sources Safety of Radiation Generators and Sealed Radioactive Sources Principles for the Exemption of Radiation Sources and Practices from Regulatory Control Regulatory Control of Radiation Sources Radiation Safety in the Use of Radiation Sources in Research and Education Safety of Radiation Sources and Security of Radioactive Materials Building Competence in Radiation Protection and the Safe Use of Radiation Sources Safe Handling of Radiation Sources Energy Resources and Government, Materials Submitted to the Subcommittee on Automation and Energy Resources by Federal and State Regulatory and Developmental Agencies .... Training in Radiation Protection and the Safe Use of Radiation Sources

Identification of Radioactive Sources and Devices Medical Management of Radiation  
Accidents Categorization of Radiation Sources Sources and Effects of Ionizing Radiation:  
Sources Safety and Security of Radioactive Sources Categorization of Radioactive Sources  
Nuclear Science Abstracts Introduction to Radiation Protection Radiation Protection and  
Safety of Radiation Sources: International Basic Safety Standards Selection of Radiation  
Sources in Radiography *International Atomic Energy Agency International Atomic Energy  
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Committee International Atomic Energy Agency Kenneth S. Cohen International Atomic Energy  
Agency United Nations. Scientific Committee on the Effects of Atomic Radiation International  
Atomic Energy Agency International Atomic Energy Agency Claus Grupen IAEA N. W. D. Chrimes*

the objective of this safety guide is to assist member states in implementing regulatory requirements for radiation sources that will ensure their safety to that end this publication provides guidance on infrastructure responsibilities for safety on methodologies for performing safety assessments and on specific design and operational measures that should be taken to ensure safety throughout the life cycle of radiation generators and sealed radioactive sources the safety measures recommended are also applicable to radioactive sources in nuclear facilities or radioactive waste disposal facilities while recognizing that these facilities should in any case provide a high standard of source safety

the need for a consistent international approach to exclusion and exemption of radiation sources and practices from regulatory control has become increasingly evident especially for sources which may be transported from one country to another such as consumer products containing very small amounts of radioactive material this safety guide represents a first international consensus on the subject of exemption principles it recommends a procedure which might be followed in implementing the iaea nea oecd ilo who basic safety standards for radiation protection

the safety guide provides advice on the legislative basis for establishing regulatory bodies including the effective independence of the regulatory body the safety guide provides guidance on implementing the functions and activities of regulatory bodies the development of regulations and guides on radiation safety implementation of a system for notification and authorization carrying out regulatory inspections taking necessary enforcement actions and investigating accidents and circumstances potentially giving rise to accidents guidance is also provided on the organization and staffing of regulatory bodies

radiation sources used in research and education include particle accelerators sealed radioactive sources such as low activity check sources and high activity sealed radioactive sources in irradiators unsealed radioactive sources that are used as tracers in field work and in laboratory work naturally occurring radioactive material and x ray generators such as diffraction apparatus and fluorescence analyzers this safety guide provides recommendations on how to meet the relevant requirements of iaea safety standards series no gsr part 3 in the use of radiation sources in research and education it provides guidance on the control of occupational exposure and of public exposure for planned exposure situations and where appropriate emergency exposure situations and on the safety measures specific to this practice the recommendations in this publication are aimed primarily at operating organizations such as educational and research establishments including schools colleges universities and technical institutes that are authorized to use radiation sources in academic programs as well as their employees students teachers and radiation protection officers the guidance will also be of interest to individuals working for regulatory bodies and other relevant organizations involved in design manufacture supply and service of radiation sources and associated equipment for research and education

this safety guide co sponsored by the ilo paho and who makes recommendations concerning the building of competence in protection and safety within a national radiation protection infrastructure and provides guidance for setting up the structure for a national strategy it relates to the training and assessment of qualification of new personnel and the retraining of existing personnel in order to develop and maintain appropriate levels of competence it provides the necessary guidance to meet the requirements as laid down in safety series no 115 international basic safety standards for protection against ionizing radiation and for the safety of radiation sources

provides assistance in how to organise adequate and appropriate training for personnel working with ionizing radiation this publication covers among other topics the various methods of training provision and gives advice on the development and organisational aspects associated with the management of training activities

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 publisher s description

although radiation accidents are rare and often complex in nature they are of great concern not only to the patient and involved medical staff but to the media and public as well yet there are few if any comprehensive publications on the medical management of radiation accidents medical management of radiation accidents provides a complete refe

the second volume of the scientific committee s report adds five more annexes to the five in volume one they cover dna repair and mutagenesis biological effects at low radiation doses combined effects of radiation and other agents epidemiological evaluation of radiation induced cancer and exposures and effects of the chernobyl accident each ends with an impressive number of references annotation copyrighted by book news inc portland or

radioactive sources are used extensively around the world in medical industrial agricultural and research applications however their safety and security remain a matter of concern loss of control sometimes as a result of inadequate regulatory oversight has resulted in orphan sources such sources have led in some cases to serious injuries even death in recent years additional concerns have emerged related to the possibility that sources might be used for malicious purposes these concerns reinforce the importance of ensuring that proper control of radioactive sources is established and maintained throughout the world this conference was held with the aim of generating an exchange of information on these issues these proceedings contain the addresses and the invited papers presented as well as records of the discussions and the findings of the conference the contributed papers are available on a cd rom that is included with this volume

radioactive sources are widely used in the fields of medicine industry agriculture research and education as well as having military applications this guide sets out a risk based ranking of radioactive sources and practices into five categories in line with iaea standards by which risk informed decisions can be made in a graded approach to the regulatory control of radioactive sources for the purposes of safety and security

this account of sources of ionizing radiation and methods of radiation protection describes units of radiation protection measurement techniques biological effects environmental radiation and many applications each chapter contains problems with solutions

the new edition of the international basic safety standards the publication details the

requirements for the protection of people and the environment from harmful effects of ionizing radiation and for the safety of radiation sources all circumstances of radiation exposure are considered

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