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Radiological Protection Policy For The Disposal Of Radioactive Waste

Adriana Placani, Stearns Broadhead



Radiological Protection Policy For The Disposal Of Radioactive Waste:

ICRP Publication 77 ICRP,1998-05-01 ICRP Publication 77 reaffirms the Commission's current policy of radiological protection in particular its policy on public exposure and aims to clarify the practical application of that policy to the disposal of radioactive waste. It discusses the justification of a practice, the optimisation of protection, the use of collective dose assessed over long distances and times, the implications of potential exposure and the distinction between practices and intervention. In particular, it explains why collective doses should not be ignored simply because the individual doses contributing to it are small. However, it also stresses that collective doses may need to be presented separated into blocks of limited ranges of dose and time and forecasts of collective dose over long time should include a critical examination of their uncertainty. This report is expected to be important to anyone dealing with radiation protection policy obviously in the context of waste disposal but also in general because of the explanations of the Commission's policy concerning collective dose.

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Radiological Protection Policy for the Disposal of Radioactive Waste International Commission on Radiological Protection,1997 Handbook of Radiotherapy Physics P Mayles,A Nahum,J.C Rosenwald,2007-06-12 From background physics and biological models to the latest imaging and treatment modalities the Handbook of Radiotherapy Physics Theory and Practice covers all theoretical and practical aspects of radiotherapy physics. In this comprehensive reference each part focuses on a major area of radiotherapy beginning with an introduction by the **ICRP Publication 81** ICRP,2000-07-01 ICRP Publication 81 deals with the radiological protection of members of the public following the disposal of long lived solid radioactive waste using the concentrate and retain strategy. It covers options including shallow land burial and deep geological disposal. Its recommendations apply to new disposal facilities. The report supplements updates and clarifies the material in ICRP Publication 46 from 1986 taking into account the most recent general recommendations of ICRP in Publication 60 and the general ICRP policy for disposal of all types of radioactive waste as described in Publication 77. It addresses the main protection issue exposure that may or may not occur in the far future and regards constrained

optimisation as the central approach to evaluating radiological acceptability of a waste disposal system In this context optimisation is a judgmental essentially qualitative process Two categories of exposure situation are considered natural processes and human intrusion

Challenges in Radiation Protection and Nuclear Safety Regulation of the Nuclear Legacy Malgorzata Sneve, Mikhail F. Kiselev, 2008-07-19 A NATO workshop was held in September 2007 under the Security through Science framework to consider the current challenges in regulation of the nuclear legacy The overall objective was to share East West competence and experience in radiation protection and nuclear safety supervision of installations built during the cold war particularly in relation to regulatory strategies for safe decommissioning of unique or unusual nuclear facilities and remediation activities There were over 60 participants from 8 countries as well as representatives from the International Commission on Radiological Protection the International Atomic Energy Agency and NATO The organisations involved included regulatory authorities operators and technical support organizations The new Russian Federation Unified State Programme for Handling Spent Fuel and Radioactive Waste was introduced and the steps necessary to set this up as a comprehensive programme of activities were described Some waste management sites are in a poor state Legacy management experience was provided from the UK France and the USA Information was provided on methods for site characterisation and separation of wastes into exempt low level and intermediate level waste and the complication of dealing at the same time with chemical hazards such as beryllium Strategies for contaminated site management were also explained and the associated risk assessment methods outlined The Russian Federation has responsibility to manage its own nuclear legacy But it is also one of several countries in the global network of nuclear activities Harmonisation of approaches is valuable in building future cooperation but local conditions may influence the best local solution Accordingly future exchanges such as those provided for by this workshop should be encouraged There are many complex issues to be addressed and they cannot all be solved at once Clear recognition of the major threats as well as weakness in regulatory processes can be useful in directing future resources However at this stage it is clear that there are specific regulatory issues to address as well as a need to maintain development of an enhanced overall safety culture Such guidance needs to be thoroughly based on the best use of scientific and technical information At the same time part of the solution relates to policy issues and value judgements and so broader interaction among regulators operators and other stakeholders is to be encouraged

Nuclear Decommissioning, Waste Management, and Environmental Site Remediation Colin Bayliss, Kevin Langley, 2003-10-10 Decommissioning nuclear facilities is a relatively new field which has developed rapidly in the last ten years It involves materials that may be highly radioactive and therefore require sophisticated methods of containment and remote handling The wastes arising from decommissioning are hazardous and have to be stored or disposed of safely in order to protect the environment and future generations Nuclear decommissioning work must be carried out to the highest possible standards to protect workers the general public and the environment This book describes the techniques used for

dismantling redundant nuclear facilities the safe storage of radioactive wastes and the restoration of nuclear licensed sites Describes the techniques used for dismantling nuclear facilities safe storage of radioactive wastes and the restoration of nuclear licensed facilities Provides the reader with decommissioning experience accumulated over 15 years by UKAEA Contains valuable information to personnel new to decommissioning and waste management **The Impact of Low-Level**

Radioactive Waste Management Policy on Biomedical Research in the United States National Research Council, Commission on Life Sciences, Board on Radiation Effects Research, Committee on the Impact of Low-Level Radioactive Waste Management Policy on Biomedical Research in the United States, 2001-02-09 The National Research Council's Committee on the Impact of Low Level Radioactive Waste Management Policy on Biomedical Research in the United States was called on to assess the effects of the low level radioactive waste management policy on the current and future activities of biomedical research This report provides an assessment of the effects of the current management policy for low level radioactive waste LLRW and resulting consequences such as higher LLRW disposal costs and onsite storage of LLRW on the current and future activities of biomedical research That assessment will include evaluating the effects that the lack of facilities and disposal capacity and rules of disposal facilities have on institutions conducting medical and biological research and on hospitals where radioisotopes are used for the diagnosis and treatment of disease Practical Radiation

Protection in Healthcare Colin J. Martin, David G. Sutton, 2015 Written by practitioners experienced in the field Practical Radiation Protection in Healthcare provides a practical guide for medical physicists and others involved with radiation protection in the healthcare environment **Nuclear Law** Stephen Tromans, 2010-03-12 This book is a practical guide to the international EC and UK law applying to the various uses of nuclear energy and radioactive substances The first edition was produced in 1997 and given the renaissance of interest in nuclear power in the UK and worldwide this new updated and much expanded edition is timely It will cover the law relating to the permitting and operation of nuclear power stations the decommissioning and clean up of former nuclear facilities radiological protection the management of radioactive waste and spent fuel liability and insurance and the security and transport of radioactive materials Readers will find a clear framework explaining the development and application of nuclear law and how domestic law is based on and influenced by international and European requirements and by its historical context In the commercial context the chapters dealing specifically with new build and with decommissioning will be vital reading **Nuclear Waste Management Facilities** Rehab O Abdel

Rahman, 2024-02-24 Nuclear Waste Management Facilities Advances Environmental Impacts and Future Prospects examines best practices and recent trends in improving nuclear safety and reducing the negative environmental impacts of nuclear waste With strong emphasis on regulatory requirements this reference is essential for designing new integrated waste management practices using lessons learned from historical and current practices Divided into three key sections Part One introduces the reader to the safety and environmental impacts of the nuclear industry Part Two reviews recent technological

and methodological approaches to enhancing safety as well as reducing the carbon footprint of both individual processes and integrated facilities Topics covered include waste processing transmutation and decommissioning Part Three consider potential management schemes for special waste from innovative sources and wastes that contain emerging contaminants including waste recycling opportunities Nuclear Waste Management Facilities Advances Environmental Impacts and Future Prospects is a crucial tool needed to implement the safest and most environmentally considerate best practices within nuclear waste management facilities Presents recent approaches used to assess and improve the safety and reduce the environmental impacts of nuclear waste management facilities Offers technical guidance to support the development and defense of the environmental impact assessment EIA and Safety Cases to support the waste management facilities licensing throughout their lifecycles Highlights the future perspectives for wastes produced from innovative reactors and wastes containing emerging contaminants and recycling opportunities

Infrastructure and Methodologies for the Justification of Nuclear Power Programmes Agustin Alonso, 2012-01-19 The potential development of any nuclear power programme should include a rigorous justification process reviewing the substantial regulatory economic and technical information necessary for implementation given the long term commitments involved in any new nuclear power project Infrastructure and methodologies for the justification of nuclear power programmes reviews the fundamental issues and approaches to nuclear power justification in countries considering nuclear new build or redevelopment Part one covers the infrastructure requirements for any new nuclear power programme with chapters detailing the role and responsibilities of government regulatory bodies and nuclear operator and the need for human resources and technical capability at the national level Part two focuses on issues relevant to the justification process including nuclear safety radiation protection and emergency planning Current designs and advanced reactors and radioactive waste management are also considered along with the economic social and environmental impacts of nuclear power development Part three reviews the development of nuclear power programme from nuclear power plant site selection and licensing through construction and operation and on to decommissioning Finally a series of valuable appendices detail the UK experience of justification nuclear safety culture and training and the multinational design evaluation programme MDEP With its distinguished editor and expert team of contributors Infrastructure and methodologies for the justification of nuclear power programmes is an essential reference for international and national stakeholders in this field particularly governmental non governmental and regulatory bodies nuclear power operators and consultants Offers a comprehensive analysis of the infrastructure and methodologies required to justify the creation of nuclear power programmes in any country Provides coverage of the main issues and potential benefit linked to nuclear power Reviews the implementation of a nuclear power programme with particular reference to the requirements and methods involved in construction

Marine Radioactivity ,2004-09-17 This book on Marine Radioactivity sets out to cover most of the aspects of marine radioactivity which have been the focus of scientific study in

recent decades The authors and their reviews divide into topic areas which have defined the field over its history They cover the suite of natural radioisotopes which have been present in the oceans since their formation and quantitatively dominate the inventory of radioactivity in the oceans Also addressed are the suite of artificial radionuclides introduced to the oceans as a consequence of the use of the atom for development of nuclear energy nuclear weapons and various applications of nuclear science The major source of these continues to derive from the global fallout of atmospheric tests of nuclear weapons in the 1950s and 1960s but also includes both planned and accidental releases of radioactivity from both civilian and military nuclear technology The other division of the major study direction depends on whether the objective is to use the radionuclides as powerful tools to study oceanic processes to describe and understand the ocean distribution of the various natural or artificial radionuclides or to assess the different radionuclides impact on and pathways to man or marine organisms The oceans cover 70% of the Earth s surface and thus contains a corresponding large share of the Earth s radioactivity Marine Radioactivity covers topics of recent scientific study in this young field It examines both natural radioactivity radioactivity naturally present in oceans since their formation and artificial radioactivity radioactivity introduced by man and use of atomic and nuclear energy with regard to possible effects on the global environment

Progress Report and Preliminary 1981-83 Agenda U.S. Radiation Policy Council,1980 *Social and Ethical Aspects of Radiation Risk Management* Deborah Oughton,Sven Ove Hansson,2013-09-07 *Social and Ethical Aspects of Radiation Risk Management* provides a comprehensive treatment of the major ethical and social issues resulting from the use of ionizing radiation It covers topics such as nuclear fuel cycles radioactive waste treatment nuclear bomb testing nuclear safety management stakeholder engagement cleanup after nuclear accidents ecological risks from radiation environmental justice health and safety for radiation workers radiation dose standards the ethics of clinical radiology and the principles of radiation protection and their ethical underpinnings With authors ranging from philosophers to radiation protection officials and practitioners the book spans from theoretical to practical implications of this important area of radiation risk assessment and management Covers all the major social and ethical issues in relation to radiation protection Information is easily accessible and non technical Authors include leading radiation protection officials as well as specialists who are more independent of the radiation protection system thus presenting both authoritative and more critical views Includes theoretical perspectives as well as practical experience **Environmental Health Perspectives**,1993 **The Radiation Protection Act of**

1991, Below Regulatory Concern United States. Congress. House. Committee on Interior and Insular Affairs.

Subcommittee on Energy and the Environment,1992 *Risk and Responsibility in Context* Adriana Placani,Stearns Broadhead,2023-08-31 This volume bridges contemporary philosophical conceptions of risk and responsibility and offers an extensive examination of the topic It shows that risk and responsibility combine in ways that give rise to new philosophical questions and problems Philosophical interest in the relationship between risk and responsibility continues to rise due in no

small part to environmental crises emerging technologies legal developments and new medical advances Despite such interest scholars are still working out how to conceive of the links between risk and responsibility the implications that risks may have to conceptions of responsibility and vice versa as well as how such theorizing might play out in applied cases With contributions from leading scholars this volume brings together new work examining the interplay between risk and responsibility exploring its varied philosophical aspects and applications to contemporary issues in law bioethics technology and environmental ethics Risk and Responsibility in Context will be of interest to philosophers working in ethics bioethics philosophy of law and philosophy of technology as well as scholars and practitioners in law health and science management public policy and environmental studies The Open Access version of this book is available at www.taylorfrancis.com This publication is licensed unless otherwise indicated under the terms of the Creative Commons Attribution Non Commercial 4 0 International CC BY NC 4 0 license <https://creativecommons.org/licenses/by-nc/4.0/> which permits use sharing adaptation distribution and reproduction in any medium or format provided you give appropriate credit to the original author s and source provide a link to the Creative Commons license and indicate any modifications Use for commercial purposes is not permitted

Basic Health Physics Joseph John Bevelacqua, 2010-04-26 Designed to prepare candidates for the American Board of Health Physics Comprehensive examination Part I and other certification examinations this monograph introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations It features more than 650 worked examples illustrating concepts under discussion along with in depth coverage of sources of radiation standards and regulations biological effects of ionizing radiation instrumentation external and internal dosimetry counting statistics monitoring and interpretations operational health physics transportation and waste nuclear emergencies and more Reflecting for the first time the true scope of health physics at an introductory level Basic Health Physics Problems and Solutions gives readers the tools to properly evaluate challenging situations in all areas of radiation protection including the medical university power reactor fuel cycle research reactor environmental non ionizing radiation and accelerator health physics

Energy Abstracts for Policy Analysis ,1989

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