



RISK AND DECISIONS

ABOUT DISPOSITION OF TRANSURANIC
AND HIGH-LEVEL RADIOACTIVE WASTE

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES



Risk And Decisions About Disposition Of Transuranic And High Level Radioactive Waste

**National Research Council, Division on
Earth and Life Studies, Board on
Radioactive Waste
Management, Committee on
Disposition of High-Level Radioactive
Waste Through Geological Isolation**

Risk And Decisions About Disposition Of Transuranic And High Level Radioactive Waste:

Risk and Decisions About Disposition of Transuranic and High-Level Radioactive Waste National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Risk-Based Approaches for Disposition of Transuranic and High-Level Radioactive Waste, 2005-02-07 The U S Department of Energy DOE manages dozens of sites across the nation that focus on research design and production of nuclear weapons and nuclear reactors for defense applications Radioactive wastes at these sites pose a national challenge and DOE is considering how to most effectively clean them up Some of the greatest projected risks cleanup costs and technical challenges come from processing and disposing transuranic and high level radioactive waste This report addresses how DOE should incorporate risk into decisions about whether the nation should use alternatives to deep geologic disposal for some of these wastes It recommends using an exemption process involving risk assessment for determining how to dispose of problematic wastes The report outlines criteria for risk assessment and key elements of a risk informed approach The report also describes the types of wastes that are candidates for alternative disposition paths potential alternatives to deep geologic disposal for disposition of low hazard waste and whether these alternatives are compatible with current regulations Low-Level Radioactive Waste Management and Disposition National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Planning Committee on Low-Level Radioactive Waste Management and Disposition: A Workshop, 2017-07-05 The Department of Energy s Office of Environmental Management DOE is responsible for the safe cleanup of sites used for nuclear weapons development and government sponsored nuclear energy research Low level radioactive waste LLW is the most volumetrically significant waste stream generated by the DOE cleanup program LLW is also generated through commercial activities such as nuclear power plant operations and medical treatments The laws and regulations related to the disposal of LLW in the United States have evolved over time and across agencies and states resulting in a complex regulatory structure DOE asked the National Academies of Sciences Engineering and Medicine to organize a workshop to discuss approaches for the management and disposition of LLW Participants explored the key physical chemical and radiological characteristics of low level waste that govern its safe and secure management and disposal in aggregate and in individual waste streams and how key characteristics of low level waste are incorporated into standards orders and regulations that govern the management and disposal of LLW in the United States and in other major waste producing countries This publication summarizes the presentations and discussions from the workshop **Calculated Risks** Kenneth A. Rogers, Marvin G. Kingsley, 2016-04-15 This well documented study examines one of the increasingly pressing problems for US homeland security the storage and management of radioactive waste Despite pressing homeland security and energy security concerns associated with highly radioactive waste political considerations have prevented policy makers from adopting adequate long term solutions to the problem This book explores nuclear waste problems through the

broader lens of federal state and local government and the resultant constraints on policy that emerge within the American political system Presenting specific case studies to highlight the deficiencies in current policy and planning as well as the possibility of terrorist activity it is highly suited to courses on security studies and environmental politics Nuclear Waste Gene Aloise,2010 At its Hanford Site in Washington State the Dept of Energy DoE is responsible for one of the world s biggest cleanup projects the treatment and disposal of about 56 million gallons of radioactive and hazardous waste stored in 177 underground tanks Two decades and several halted efforts later none of this waste has yet been treated cleanup costs have grown steadily and prospective cleanup time frames have lengthened This report assesses 1 DoE s current tank waste cleanup strategy and key technical legal and other uncertainties 2 the extent to which DoE has analyzed whether this strategy is commensurate with risks from the wastes and 3 opportunities to reduce tank waste cleanup costs Includes recommend Charts and tables **Tank Waste Retrieval, Processing, and On-site Disposal at Three Department of Energy Sites** National Research Council,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Committee on the Management of Certain Radioactive Waste Streams Stored in Tanks at Three Department of Energy Sites,2006-09-12 DOE Tank Waste How clean is clean enough The U S Congress asked the National Academies to evaluate the Department of Energy s DOE s plans for cleaning up defense related radioactive wastes stored in underground tanks at three sites the Hanford Site in Washington State the Savannah River Site in South Carolina and the Idaho National Laboratory DOE plans to remove the waste from the tanks separate out high level radioactive waste to be shipped to an off site geological repository and dispose of the remaining lower activity waste onsite The report concludes that DOE s overall plan is workable but some important challenges must be overcome including the removal of residual waste from some tanks especially at Hanford and Savannah River The report recommends that DOE pursue a more risk informed consistent participatory and transparent for making decisions about how much waste to retrieve from tanks and how much to dispose of onsite The report offers several other detailed recommendations to improve the technical soundness of DOE s tank cleanup plans Tank Wastes Planned for On-Site Disposal at Three Department of Energy Sites National Research Council,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Committee on the Management of Certain Radioactive Waste Streams Stored in Tanks at Three Department of Energy Sites,2005-08-05 In response to a request from Congress the U S Department of Energy DOE asked the National Academies to evaluate its plans for managing radioactive wastes from spent nuclear fuel at sites in Idaho South Carolina and Washington This interim report evaluates storage facilities at the Savannah River Site in South Carolina with a particular focus on plans to seal the tanks with grouting The report finds that tanks at the site do not necessarily need to be sealed shut as soon as the bulk of the waste has been removed Postponing permanent closure buys more time for the development and application of emerging technologies to remove and better immobilize residual waste without increasing risks to the environment or delaying final closure of the tank farms The report also recommends

alternatives to address the lack of tank space at the site as well as the need for focused R D activities to reduce the amount and improve the immobilization of residual waste in the tanks and to test some of the assumptions used in evaluating long term risks at the site

Environmental Decisions in the Face of Uncertainty Institute of Medicine, Board on Population Health and Public Health Practice, Committee on Decision Making Under Uncertainty, 2013-06-20

The U S Environmental Protection Agency EPA is one of several federal agencies responsible for protecting Americans against significant risks to human health and the environment As part of that mission EPA estimates the nature magnitude and likelihood of risks to human health and the environment identifies the potential regulatory actions that will mitigate those risks and protect public health¹ and the environment and uses that information to decide on appropriate regulatory action Uncertainties both qualitative and quantitative in the data and analyses on which these decisions are based enter into the process at each step As a result the informed identification and use of the uncertainties inherent in the process is an essential feature of environmental decision making EPA requested that the Institute of Medicine IOM convene a committee to provide guidance to its decision makers and their partners in states and localities on approaches to managing risk in different contexts when uncertainty is present It also sought guidance on how information on uncertainty should be presented to help risk managers make sound decisions and to increase transparency in its communications with the public about those decisions Given that its charge is not limited to human health risk assessment and includes broad questions about managing risks and decision making in this report the committee examines the analysis of uncertainty in those other areas in addition to human health risks

Environmental Decisions in the Face of Uncertainty explains the statement of task and summarizes the findings of the committee

Improving the Regulation and Management of Low-Activity Radioactive Wastes National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Improving Practices for Regulating and Managing Low-Activity Radioactive Waste, 2006-04-24

The largest volumes of radioactive wastes in the United States contain only small amounts of radioactive material These low activity wastes LAW come from hospitals utilities research institutions and defense installations where nuclear material is used Millions of cubic feet of LAW also arise every year from non nuclear enterprises such as mining and water treatment While LAW present much less of a radiation hazard than spent nuclear fuel or high level radioactive wastes they can cause health risks if controlled improperly

Improving the Regulation and Management of Low Activity Radioactive Wastes asserts that LAW should be regulated and managed according to the degree of risk they pose for treatment storage and disposal Current regulations are based primarily on the type of industry that produced the waste the waste s origin rather than its risk In this report a risk informed approach for regulating and managing all types of LAW in the United States is proposed Implemented in a gradual or stepwise fashion this approach combines scientific risk assessment with public values and perceptions It focuses on the hazardous properties of the waste in question and how they compare with other waste materials The approach is based on established principles for

risk informed decision making current risk informed initiatives by waste regulators in the United States and abroad solutions available under current regulatory authorities and remedies through new legislation when necessary

Fuel Cycle to Nowhere Richard B. Stewart, Jane B. Stewart, 2011 The origins of the current nuclear waste disposal crisis and directions for future policy

Disposition of High-Level Waste and Spent Nuclear Fuel National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Disposition of High-Level Radioactive Waste Through Geological Isolation, 2001-06-05 Focused attention by world leaders is needed to address the substantial challenges posed by disposal of spent nuclear fuel from reactors and high level radioactive waste from processing such fuel The biggest challenges in achieving safe and secure storage and permanent waste disposal are societal although technical challenges remain Disposition of radioactive wastes in a deep geological repository is a sound approach as long as it progresses through a stepwise decision making process that takes advantage of technical advances public participation and international cooperation Written for concerned citizens as well as policymakers this book was sponsored by the U S Department of Energy U S Nuclear Regulatory Commission and waste management organizations in eight other countries

High-level Radioactive Wastes, 1982

Decision-making and Radioactive Waste Disposal Andrew Newman, Gerry Nagtzaam, 2015-11-19 The International Atomic Energy Agency estimates that nuclear power generation facilities produce about 200 000 cubic meters of low and intermediate level waste each year Vital medical procedures industrial processes and basic science research also produce significant quantities of waste All of this waste must be shielded from the population for extended periods of time Finding suitable locations for disposal facilities is beset by two main problems community responses to siting proposals are generally antagonistic and as a result governments have tended to be reactive in their policy making Decision making and Radioactive Waste Disposal explores these issues utilizing a linear narrative case study approach that critically examines key stakeholder interactions in order to explain how siting decisions for low level waste disposal are made Five countries are featured the US Australia Spain South Korea and Switzerland This book seeks to establish an understanding of the political economic environmental legal and social dimensions of siting across those countries This valuable resource fills a gap in the literature and provides recommendations for future disposal facility siting efforts The book will be of interest to students and scholars of environmental law justice management politics energy and security policy as well as decision makers in government and industry

Disposition of High-Level Radioactive Waste Through Geological Isolation National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Board on Radioactive Waste Management, 1999-11-07 During the next several years decisions are expected to be made in several countries on the further development and implementation of the geological disposition option The Board on Radioactive Waste Management BRWM of the U S National Academies believes that informed and reasoned discussion of relevant scientific engineering and social issues can and should play a constructive role in the

decision process by providing information to decision makers on relevant technical and policy issues A BRWM initiated project including a workshop at Irvine California on November 4 5 1999 and subsequent National Academies report to be published in spring 2000 are intended to provide such information to national policy makers both in the U S and abroad To inform national policies it is essential that experts from the physical geological and engineering sciences and experts from the policy and social science communities work together Some national programs have involved social science and policy experts from the beginning while other programs have only recently recognized the importance of this collaboration An important goal of the November workshop is to facilitate dialogue between these communities as well as to encourage the sharing of experiences from many national programs The workshop steering committee has prepared this discussion for participants at the workshop It should elicit critical comments and help identify topics requiring in depth discussion at the workshop It is not intended as a statement of findings conclusions or recommendations It is rather intended as a vehicle for stimulating dialogue among the workshop participants Out of that dialogue will emerge the findings conclusions and recommendations of the National Academies report

Symposium ,2008 Proposed Relocation of Technical Area 18 Capabilities and Materials at the Los Alamos National Laboratory ,2002 Regulation of Federal Radioactive Waste Activities U.S. Nuclear Regulatory Commission. Office of Nuclear Material Safety and Safeguards,1979 *Energy Research Abstracts* ,1994 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

Systems Engineering and Artificial Intelligence William F. Lawless,Ranjeev Mittu,Donald A. Sofge,Thomas Shortell,Thomas A. McDermott,2021-11-02 This book provides a broad overview of the benefits from a Systems Engineering design philosophy in architecting complex systems composed of artificial intelligence AI machine learning ML and humans situated in chaotic environments The major topics include emergence verification and validation of systems using AI ML and human systems integration to develop robust and effective human machine teams where the machines may have varying degrees of autonomy due to the sophistication of their embedded AI ML The chapters not only describe what has been learned but also raise questions that must be answered to further advance the general Science of Autonomy The science of how humans and machines operate as a team requires insights from among others disciplines such as the social sciences national and international jurisprudence ethics and policy and sociology and psychology The social sciences inform how context is constructed how trust is affected when humans and machines depend upon each other and how human machine teams need a shared language of explanation National and international jurisprudence determine legal responsibilities of non trivial human machine failures ethical standards shape

global policy and sociology provides a basis for understanding team norms across cultures Insights from psychology may help us to understand the negative impact on humans if AI ML based machines begin to outperform their human teammates and consequently diminish their value or importance This book invites professionals and the curious alike to witness a new frontier open as the Science of Autonomy emerges

Radioactive Waste Processing and Disposal U.S. Nuclear Regulatory Commission, U.S. Nuclear Regulatory Commission. Office of Nuclear Material Safety and Safeguards. Division of Waste Management and Environmental Protection, 1980

Modelling Radioactivity in the Environment E.M. Scott, 2003-05-22 Just as an environmental model typically will be composed of a number of linked sub models representing physical chemical or biological processes understood to varying degrees this volume includes a series of linked chapters exemplifying the fundamental nature of environmental radioactivity models in all compartments of the environment Why is a book on modelling environmental radioactivity necessary There are many reasons why such a book is necessary perhaps the most important that modelling is an often misunderstood and maligned activity and this book can provide to a broad audience a greater understanding of modelling power but also some of the limitations modellers and experimentalists often do not understand and mistrust each other's work yet they are mutually dependent in the sense that good experimental science can direct good modelling work and vice versa we hope that this book can dispel mistrust and engender improved understanding there is an increasing reliance on model results in environmental management yet there is also often misuse and misrepresentation of these results This book can help to bridge the gap between unrealistic expectations of model power and the realisation of what is possible practicable and feasible in modelling of environmental radioactivity and finally modelling tools capacity and power have increased many fold in a relatively short period of time Much of this is due to the much heralded computer revolution but much is also due to better science It is useful to consider what gap if any still remains between what is possible and what is necessary

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