



# 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

**Richard C Ragaini**



## **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      **Best Practices for Risk-Informed Decision Making Regarding Contaminated Sites** National Research Council,Policy and Global Affairs,Science and Technology for Sustainability Program,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Committee on Best Practices for Risk-Informed Remedy Selection, Closure and Post-Closure of Contaminated Sites,2014-07-21 The Department of Energy s Office of Environmental Management s EM mission is the safe cleanup of sites associated with the government led development of nuclear weapons and nuclear energy While many of these legacy sites have completed cleanup the largest and most complex sites have not been fully remediated The cleanup of these sites is proceeding under legally enforceable agreements with timelines for hundreds of milestones EM is reviewing alternative approaches to increase effectiveness and improve cost efficiencies of its cleanup activities especially for sites that will have residual contamination when active cleanup is complete This report is the summary of two workshops convened in October 2013 and January 2014 on best practices for risk informed remedy selection closure and post closure control of radioactive and chemically contaminated sites that present significant difficulty for remediation to unrestricted release The workshop series aimed to explore best practices that promote effective risk informed decision making and future opportunities to improve remediation approaches and practices In the Workshop 1 section of Best Practices for Risk Informed Decision Making Regarding Contaminated Sites the report examines holistic approaches for remediating sites with multiple contaminant sources and post closure uses and approaches for incorporating a sustainability framework into decision making regarding site remediation closure and post closure control In Workshop 2 the report focuses on post closure controls assessment of long term performance of site remedies and best practices for risk based remediation decisions

Radiological Risk Assessment and Environmental Analysis John E. Till,Helen A. Grogan,2008-07-10 Radiological Risk Assessment and Environmental Analysis comprehensively explains methods used for estimating risk to people exposed to radioactive materials released to the environment by nuclear facilities or in an emergency such as a nuclear terrorist event This is the first book that merges the diverse disciplines necessary for estimating where radioactive materials go in the environment and the risk they present to people It is not only essential to managers and scientists but is also a teaching text The chapters are arranged to guide the reader through the risk assessment process beginning with the source term where the radioactive material comes from and ending with the conversion to risk In addition to presenting mathematical models used in risk assessment data is included so the reader can perform the calculations Each chapter also provides examples and working problems The book will be a critical component of the rebirth of nuclear energy now taking place as well as an essential resource to prepare for and respond to a nuclear emergency      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 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 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 health<sup>1</sup> 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 **International Seminar on Nuclear War .**

. Ragaini,2008 The Erice International Seminars are multidisciplinary seminars attended by over 100 eminent participants from all fields of science Each year a few scientific issues are selected and experts are invited to present contrasting views during the plenary multidisciplinary sessions of the seminar followed by general debates These sessions offer a unique opportunity for specialists to enlarge their vision of their related fields by being confronted with ideas and suggestions from high level scientists in complementary domains of science Associated workshops allow the experts to further refine and process the ideas evoked during the seminar This year s topics are all actual For instance on climate issues we have focused on the management of a global warming and on new theoretical alternatives to climate modeling On global monitoring of the planet we have focused on the US missile defence shield the energy externalities and waste disposal and the historical dive by Dr Chilingarov on the North Pole shelf On the medical side we have investigated the Alzheimer epidemics and the role of infectious agents in cancer **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 *International Seminar On Nuclear War And Planetary*

*Emergencies - 38th Session* Richard C Ragaini,2008-08-08 The Erice International Seminars are multidisciplinary seminars attended by over 100 eminent participants from all fields of science Each year a few scientific issues are selected and experts are invited to present contrasting views during the plenary multidisciplinary sessions of the seminar followed by general debates These sessions offer a unique opportunity for specialists to enlarge their vision of their related fields by being confronted with ideas and suggestions from high level scientists in complementary domains of science Associated workshops allow the experts to further refine and process the ideas evoked during the seminar This year s topics are all actual For instance on climate issues we have focused on the management of a global warming and on new theoretical alternatives to climate modeling On global monitoring of the planet we have focused on the US missile defence shield the energy externalities and waste disposal and the historical dive by Dr Chilingarov on the North Pole shelf On the medical side we have investigated the Alzheimer epidemics and the role of infectious agents in cancer 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

**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

**International Seminar on Nuclear War and Planetary Emergencies** Richard Ragaini, 2008 The Erice International Seminars are multidisciplinary seminars attended by over 100 eminent participants from all fields of science Each year a few scientific issues are selected and experts are invited to present contrasting views during the plenary multidisciplinary sessions of the seminar followed by general debates These sessions offer a unique opportunity for specialists to enlarge their vision of their related fields by being confronted with ideas and suggestions from high level scientists in complementary domains of science Associated workshops allow the experts to further refine and process the ideas evoked during the seminar This year's topics are all actual For instance on climate issues we have focused on the management of a global warming and on new theoretical alternatives to climate modeling On global monitoring of the planet we have focused on the US missile defence shield the energy externalities and waste disposal and the historical dive by Dr Chilingarov on the North Pole shelf On the medical side we have investigated the Alzheimer epidemics and the role of infectious agents in cancer

**The Nuclear Imperative** Jeff W.

Eerkens,2008-09-30 In this global wake up call nuclear physicist Jeff Eerkens explores remedies for the impending energy crisis when oil and natural gas are depleted The Nuclear Imperative demonstrates that solar wind and biomass power are incapable of supplying the enormous quantities of electricity and heat needed for manufacturing portable synthetic fuels to replace our current use of fossil fuels It offers a fresh look at uranium produced energy as the optimal affordable solution

Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale Patricia Maurice,2009-06-15 An advanced exploration of water rock interactions Based on the author s fifteen years of teaching and tried and tested experiences in the classroom here is a comprehensive exploration of water rock interactions Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W R interactions such as nanoparticles geomicrobiology and climate change Providing basic conceptual understanding along with more complex subject matter Professor Patricia Maurice encourages students to look beyond the text to ongoing research in the field Designed to engage the learner the book features Numerous case studies to contextualize concepts Practice and thought questions at the end of each chapter Broad coverage from basic theory to cutting edge topics such as nanotechnology Both basic and applied science This text goes beyond W R interactions to touch on a broad range of environmental disciplines While written for advanced undergraduate and graduate students primarily in geochemistry and soil chemistry Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale will serve the needs of such diverse fields as environmental engineering hydrogeology physics biology and environmental chemistry

*Environmental Health Perspectives* ,2003-02      **Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Nuclear and Radiation Studies Board,Committee on Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program,2019-03-27 The National Defense Authorization Act for fiscal year 2017 contained a request for a National Academies of Sciences Engineering and Medicine review and assessment of science and technology development efforts within the Department of Energy s Office of Environmental Management DOE EM This technical report is the result of the review and presents findings and recommendations      *The Ethics of Precaution* Levente Szentkirályi,2019-11-22 There are thousands of substances manufactured in the United States to which the public is routinely exposed and for which toxicity data are limited or absent Some insist that uncertainty about the severity of potential harm justifies implementing precautionary regulations while others claim that uncertainty justifies the absence of regulations until sufficient evidence confirms a strong probability of severe harm In this book Levente Szentkirályi overcomes this impasse in his defense of precautionary environmental risk regulation by shifting the focus from how to manage uncertainty to what it is we owe each other morally He argues that actions that create uncertain threats wrongfully gamble with the welfare of those who are exposed and neglect the



reciprocity that our equal moral standing demands If we take the moral equality and rights of others seriously we have a duty to exercise due care to strive to prevent putting them in possible harm s way The Ethics of Precaution will be of great interest to researchers educators advanced students and practitioners working in the fields of environmental political theory ethics of risk and environmental policy

**Review of the Analysis of Supplemental Treatment Approaches of Low-Activity Waste at the Hanford Nuclear Reservation** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Supplemental Treatment of Low-Activity Waste at the Hanford Nuclear Reservation, 2018-06-08 In 1943 as part of the Manhattan Project the Hanford Nuclear Reservation was established with the mission to produce plutonium for nuclear weapons During 45 years of operations the Hanford Site produced about 67 metric tonnes of plutonium approximately two thirds of the nation s stockpile Production processes generated radioactive and other hazardous wastes and resulted in airborne surface subsurface and groundwater contamination Presently 177 underground tanks contain collectively about 210 million liters about 56 million gallons of waste The chemically complex and diverse waste is difficult to manage and dispose of safely Section 3134 of the National Defense Authorization Act for Fiscal Year 2017 calls for a Federally Funded Research and Development Center FFRDC to conduct an analysis of approaches for treating the portion of low activity waste LAW at the Hanford Nuclear Reservation intended for supplemental treatment The first of four this report reviews the analysis carried out by the FFRDC It evaluates the technical quality and completeness of the methods used to conduct the risk cost benefit schedule and regulatory compliance assessments and their implementations waste conditioning and supplemental treatment approaches considered in the assessments and other key information and data used in the assessments

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