

Nuclear Waste Cleanup Technology and Opportunities

Robert Noyes

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Nuclear Waste Cleanup Technologies And Opportunities:

Nuclear Waste Cleanup Technologies and Opportunities Robert Noyes, 1995-12-31 One of the largest most complicated and expensive environmental problems in the United States is the cleanup of nuclear wastes The US Department of Energy DOE has approximately 4 000 contaminated sites covering tens of thousands of acres and replete with contaminated hazardous or radioactive waste soil or structures In addition to high level waste it has more than 250 000 cubic meters of transuranic waste and millions of cubic meters of low level radio active waste In addition DOE is responsible for thousands of facilities awaiting decontamination decommissioning and dismantling DOE and its predecessors have been involved in the management of radioactive wastes since 1943 when such wastes were first generated in significant quantities as by products of nuclear weapons production Waste connected with DOE s nuclear weapons complex has been accumulating as a result of various operations spanning over five decades The cost estimates for nuclear waste cleanup in the United States have been rapidly rising It has recently been estimated to be in a range from 200 to 350 billion Costs could vary considerably based on future philosophies as to whether to isolate certain sites the iron fence philosophy or clean them up to a pristine condition the greenfields philosophy Funding will also be based on Congressional action that may reduce environmental cleanup based on budget considerations

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Sustainability of Life Cycle Management for Nuclear Cementation-Based Technologies Rehab O. Abdel Rahman, Michael I. Ojovan, 2021-05-25 Sustainability of Life Cycle Management for Nuclear Cementation Based Technologies edited by Dr Rahman and Dr Ojovan presents the latest knowledge and research on the management of cementitious systems within nuclear power plants The book covers aging development and updates on regulatory frameworks on a global scale the development of cementitious systems for the

immobilization of problematic wastes and the decommissioning and decontamination of complex cementitious systems The book's editors and their team of experts combine their practical knowledge to provide the reader with a thorough understanding on the sustainability of lifecycle management of cementitious systems within the nuclear industry Sections provide a comparative tool that presents national regulations concerning cementitious systems within nuclear power plants check international and national evaluation results of the sustainability of different systems help in the development of performance test procedures and provide a guide on aging nuclear power plants and the long term behavior of these systems in active and passive safety environments Presents the latest information on the behavior of different cementitious systems used in the nuclear industry in one comprehensive resource Includes scientific justifications of system behavior during the design operation maintenance and decommissioning phases Aids the reader in the development of evaluation tests for problematic wastes

Radioactive Waste Management James Saling, 2018-04-27 This reviews sources of radioactive waste and introduces radioactive decay and radiation shielding calculations It covers technical and regulatory aspects of waste management with discussion questions at the end of each chapter to provide an opportunity to explore the many facets of waste management issues An extensive reference list at the end of each chapter retains the references from the first edition of the book and incorporates references used in preparing this revised text giving readers an opportunity to look at historical records as well as current information

Waste Forms Technology and Performance National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Waste Forms Technology and Performance, 2011-09-05 The Department of Energy's Office of Environmental Management DOE EM is responsible for cleaning up radioactive waste and environmental contamination resulting from five decades of nuclear weapons production and testing A major focus of this program involves the retrieval processing and immobilization of waste into stable solid waste forms for disposal Waste Forms Technology and Performance a report requested by DOE EM examines requirements for waste form technology and performance in the cleanup program The report provides information to DOE EM to support improvements in methods for processing waste and selecting and fabricating waste forms Waste Forms Technology and Performance places particular emphasis on processing technologies for high level radioactive waste DOE's most expensive and arguably most difficult cleanup challenge The report's key messages are presented in ten findings and one recommendation

Nuclear Energy Raymond L. Murray, 2001 Energy Atoms and nuclei Radioactivity Nuclear processes Radiation and materials Fission Fusion Particle accelerators Isotope separators Radiation detectors Neutron chain reactions Nuclear heat energy Breeder reactors Fusion reactors The history of nuclear energy Biological effects of radiation Information from isotopes Useful radiation effects Reactor safety Nuclear propulsion Radiation protection Radioactive waste disposal Laws regulations and organizations Energy economics International nuclear power Nuclear explosions The future

Cleanup of Chemical and Explosive Munitions Richard Albright, 2011-12-02 Unexploded military ordnance and toxic

chemicals some dating back to the two World Wars are a global concern especially when former military bases are redeveloped for housing or other civilian uses Internationally there are the added challenges of cleanup of battlegrounds and minefields Experts estimate that the United States alone could spend between 50 250 billion to clean up these sites many of which are in areas of high population density where the demand for land for development is high This book is unique in providing detailed guidance for cleaning up military ordnance sites listing explosives chemical warfare materials and breakdown products which can contaminate soil and groundwater and the tests needed to detect them as well as cleanup techniques Also included are remote sensing techniques geophysical techniques safety issues the particular challenges of chemical weapons etc The author illustrates these techniques with case studies including former battlegrounds in Europe and Asia storage and waste disposal sites in Russia and former Soviet territories and an extended study of the remediation of the large and complex Spring Valley site in the District of Columbia The second edition has been fully revised and updated and also includes new and expanded sections on geophysical techniques for discovering buried ordnance underwater sites and remediation techniques use of robotics including remotely operated vehicles compliance and regulatory issues guidance documents from US Department of Defense and other sources The focus on test procedures environmental remediation techniques and learning from past case studies makes Albright s book the most comprehensive and practical guide on the market for a topic of international importance The only book available with clear and complete guidance for the cleanup of military ordnance sites and battlefields The author illustrates his recommendations with real world cases including Spring Valley DC former battlegrounds in Europe and Asia and storage and waste disposal sites in Russia and other former Soviet states An essential reference for the test and environmental remediation procedures required to put former military sites back in to civilian use e g housing 30% revision with key updates concerning regulatory changes US Dept of Defense guidance documents use of robotic vehicles underwater sites and discovery of buried ordnance

Safety, Modernization, and Environmental Cleanup of the U.S. Nuclear Weapons Complex United States. Congress. Senate. Committee on Armed Services,1989

Nuclear waste further actions needed to increase the use of innovative cleanup technologies : report to congressional committees ,

Radioactive Waste Management ,1981

Proposed Fiscal Year 1995 Budget Request for Department of Energy United States. Congress. Senate. Committee on Energy and Natural Resources,1994

Nuclear Waste Cleanup, Paducah, KY United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research, Development, Production, and Regulation,2000

Nuclear waste disposal United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1978

Environmental Cleanup Technology Transfer Initiatives Laurel A. Muehlhausen,1994

Energy Research Abstracts ,1983

Nuclear waste better performance reporting needed to assess DOE's ability to achieve the goals of the accelerated cleanup program ,2005

Chemical Separation Technologies and Related Methods of

Nuclear Waste Management Gregory R. Choppin, Mikhail Kh. Khankhasayev, 1999-02-28 Separation technologies are of crucial importance to the goal of significantly reducing the volume of high level nuclear waste thereby reducing the long term health risks to mankind International co operation including the sharing of concepts and methods as well as technology transfer is essential in accelerating research and development in the field The writers of this book are all internationally recognised experts in the field of separation technology well qualified to assess and criticize the current state of separation research as well as to identify future opportunities for the application of separation technologies to the solution of nuclear waste management problems The major emphases in the book are research opportunities in the utilization of innovative and potentially more efficient and cost effective processes for waste processing treatment actinide speciation separation methods technological processing and environmental restoration

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, 2005-09-05 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

Nuclear Waste Disposal in Michigan United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment, 1976

A Review of Department of Energy's Radioactive High-level Waste Cleanup Programs United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations, 2003

Unveiling the Magic of Words: A Report on "**Nuclear Waste Cleanup Technologies And Opportunities**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Nuclear Waste Cleanup Technologies And Opportunities**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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