

Research Reactor Aluminum Spent Fuel

Treatment Options
for Disposal

NATIONAL RESEARCH COUNCIL

Research Reactor Aluminum Spent Fuel Treatment Options For Disposal

National Academy Press (U.S.)



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Research Reactor Aluminum Spent Fuel National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Kevin D. Crowley, Milton Levenson, 1998-05-06 The U S Department of Energy DOE is preparing an environmental impact statement EIS for management of aluminum spent fuel from foreign and domestic research reactors much of which is highly enriched in uranium 235 This EIS will assess the need for additional treatment and storage facilities at the Savannah River Site to accommodate the receipt of this fuel and it also will assess and select a treatment technology to prepare this fuel for interim storage and eventual shipment to a repository for disposal This National Research Council book which was prepared at the request of DOE s Savannah River Office provides a technical assessment of the technologies costs and schedules developed by DOE for eight alternative treatment options and the baseline reprocessing option It also provides comments on DOE s aluminum spent fuel disposal program a program that is slated to last for about 40 years and cost in excess of 2 billion

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Spent Nuclear Fuel Management ,2000 **Research Needs for High-Level Waste Stored in Tanks and Bins at U.S. Department of Energy Sites** National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Long-Term Research Needs for Radioactive High-Level Waste at Department of Energy Sites, 2001-10-05 The United States Department of Energy DOE has approximately 400 million liters 100 million gallons of liquid high level waste HLW stored in underground tanks and approximately 4 000 cubic meters of solid HLW stored in bins The current DOE estimate of the cost of converting these liquid and solid wastes into stable forms for shipment to a geological repository exceeds 50 billion to be spent over several decades DOE 2000 The Committee on Long Term Research Needs for Radioactive High Level Waste at Department of Energy Sites was appointed by the National Research Council NRC to advise the Environmental Management Science Program EMSP on a long term research agenda addressing the above problems related to HLW stored in tanks and bins at DOE sites

Safety Related Issues of Spent Nuclear Fuel Storage

J.D.B. Lambert, K.K. Kadyrzhanov, 2007-05-09 This book contains papers from a NATO sponsored workshop in Almaty in September 2005 which discussed safety related issues of storing spent nuclear fuel. Fifteen papers cover aluminum clad fuel discharged from research reactors worldwide while five papers examine stainless steel clad fuel from fast reactors and two Zircaloy clad fuel from commercial light water reactors. *Improving the Scientific Basis for Managing DOE's Excess Nuclear Materials and Spent Nuclear Fuel* National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Improving the Scientific Basis for Managing Nuclear Materials and Spent Nuclear Fuel through the Environmental Management Science Program, 2003-06-09 The production of nuclear materials for the national defense was an intense nationwide effort that began with the Manhattan Project and continued throughout the Cold War. Now many of these product materials by products and precursors such as irradiated nuclear fuels and targets have been declared as excess by the Department of Energy DOE. Most of this excess inventory has been or will be turned over to DOE's Office of Environmental Management EM which is responsible for cleaning up the former production sites. Recognizing the scientific and technical challenges facing EM, Congress in 1995 established the EM Science Program EMSP to develop and fund directed long term research that could substantially enhance the knowledge base available for new cleanup technologies and decision making. The EMSP has previously asked the National Academies National Research Council for advice for developing research agendas in subsurface contamination, facility deactivation and decommissioning, high level waste and mixed and transuranic waste. For this study the committee was tasked to provide recommendations for a research agenda to improve the scientific basis for DOE's management of its high cost, high volume or high risk excess nuclear materials and spent nuclear fuels. To address its task the committee focused its attention on DOE's excess plutonium 239, spent nuclear fuels, cesium 137 and strontium 90 capsules, depleted uranium and higher actinide isotopes. **Advice on the Department of Energy's Cleanup Technology Roadmap** National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Development and Implementation of a Cleanup Technology Roadmap, 2009-06-21 Beginning with the Manhattan Project and continuing through the Cold War, the United States government constructed and operated a massive industrial complex to produce and test nuclear weapons and related technologies. When the Cold War ended, most of this complex was shut down permanently or placed on standby and the United States government began a costly long term effort to clean up the materials wastes and environmental contamination resulting from its nuclear materials production. In 1989 Congress created the Office of Environmental Management EM within the Department of Energy DOE to manage this cleanup effort. Although EM has already made substantial progress, the scope of EM's future cleanup work is enormous. *Advice on the Department of Energy's Cleanup Technology Roadmap: Gaps and Bridges* provides advice to support the development of a cleanup technology roadmap for EM. The book identifies existing technology gaps and their priorities, strategic opportunities to leverage needed research and development programs with

other organizations needed core capabilities and infrastructure at national laboratories and EM sites that should be maintained all of which are necessary to accomplish EM's mission

Improving the Characterization and Treatment of Radioactive Wastes for the Department of Energy's Accelerated Site Cleanup Program National Research Council, Division on Earth and Life Studies, Board on Radioactive Waste Management, Committee on Opportunities for Accelerating Characterization and Treatment of Waste at DOE Nuclear Weapons Sites, 2005-01-06 The Department of Energy's Office of Environmental Management EM directs the massive cleanup of more than 100 sites that were involved in the production of nuclear weapons materials during the Manhattan Project and the Cold War This report offers suggestions for more effectively characterizing and treating the orphan and special case wastes that are part of EM's accelerated cleanup program It identifies technical opportunities for EM to improve the program that will save time and money without compromising health and safety The opportunities identified include making more effective use of existing facilities and capabilities for waste characterization treatment or disposal eliminating self imposed requirements that have no clear technical or safety basis and investing in new technologies to improve existing treatment and characterization capabilities For example the report suggests that EM work with DOE classification officers to declassify to the extent possible classified materials declared as wastes The report also suggests a new approach for treating the wastes that EM will leave in place after cleanup

New and Forthcoming Books National Academy Press (U.S.), 1993 Federal Register, 2001-11

Nuclear Weapons Nonproliferation Policy Concerning Foreign Research Reactor Spent Fuel, 1996

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, 2019-04-27 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

Science and Technology for DOE Site Cleanup National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, 2010-03-05 The Department of Energy's Office of Environmental Management is developing a technology roadmap to guide planning and possible future congressional appropriations for its technology development programs It asked the National Research Council of the National Academies to provide technical and strategic advice to support the development and implementation of this roadmap specifically by undertaking a study that identifies principal science and technology gaps and their priorities for the cleanup program based on previous National Academies reports updated and extended to reflect current site conditions and EM priorities and input from key external groups such as the Nuclear Regulatory Commission Defense

Nuclear Facilities Safety Board Environmental Protection Agency and state regulatory agencies In response this book provides a high level synthesis of principal science and technology gaps identified in previous NRC reports in part 1 Part 2 summarizes a workshop meant to bring together the key external groups to discuss current site conditions and science and technology needs

Treatment and Management of Sodium-bonded Spent Nuclear Fuel ,2000 *INTERIM STORAGE AND LONG TERM DISPOSAL OF RESEARCH REACTOR SPENT FUEL*. D. Vinson,2006 Aluminum clad research reactor spent nuclear fuel SNF is currently being consolidated in wet storage basins pools Approximately 20 metric tons heavy metal of aluminum based spent nuclear fuel Al SNF is being consolidated for treatment packaging interim storage and preparation for ultimate disposal in a geologic repository The storage and disposal of Al SNF are subject to requirements that provide for safety and acceptable radionuclide release The options studied for interim storage of SNF include wet storage and dry storage Two options have also been studied to develop the technical basis for the qualification and repository disposal of aluminum spent fuel The two options studied include Direct Disposal and Melt Dilute treatment The implementation of these options present relative benefits and challenges Both the Direct Disposal and the Melt Dilute treatment options have been developed and their technical viability assessed Adaptation of the melt dilute technology for the treatment of spent fuel offers the benefits of converting the spent fuel into a proliferation resistant form and or significantly reducing the volume of the spent fuel A Mobile Melt Dilute system concept has emerged to realize these benefits and a prototype system developed The application of the melt dilute technology for the treatment of legacy nuclear materials has been evaluated and also offers the promise for the safe disposal of these materials

Energy and Water Development Appropriations for 2015: Department of Energy: Secretary of Energy United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2014 Energy Research Abstracts ,1995 **Chemical Abstracts** ,2002 **Energy and Water Development Appropriations for 1998: Department of Energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1997 **Energy and Water Development Appropriations for 1998** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1997

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