RESEARCH NEEDS IN SUBSURFACE SCIENCE

U.S. Department of Energy's Environmental Management Science Program

NATIONAL RESEARCH COUNCIL

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Research Needs in Subsurface Science National Research Council,Water Science and Technology Board,Board on Radioactive Waste Management,U.S. Department of Energy's Environmental Management Science Program,2000-03-13 Research Needs in Subsurface Science provides an overview of the subsurface contamination problems across the DOE complex and shows by examples from the six largest DOE sites Hanford Site Idaho Engineering and Environmental Laboratory Nevada Test Site Oak Ridge Reservation Rocky Flats Environmental Technology Site and Savannah River Site how advances in scientific and engineering knowledge can improve the effectiveness of the cleanup effort This report analyzes the current Environmental Management EM Science Program portfolio of subsurface research projects to assess the extent to which the program is focused on DOE s contamination problems This analysis employs an organizing scheme that provides a direct linkage between basic research in the EM Science Program and applied technology development in DOE s Subsurface Contaminants Focus Area Research Needs in Subsurface Science also reviews related research programs in other DOE offices and other federal agencies see Chapter 4 to determine the extent to which they are focused on DOE s subsurface contamination problems On the basis of these analyses this report singles out the highly significant subsurface contamination knowledge gaps and research needs that the EM Science Program must address if the DOE cleanup program is to succeed

Research Needs in Subsurface Science ,2000 Research Needs in Subsurface Science ,2000 **A Strategic Vision for Department of Energy Environmental Quality Research and Development** National Research Council,Division on Earth and Life Studies,Board on Radioactive Waste Management,Committee on Building a Long-Term Environmental Quality Research and Development Program in the Department of Energy,2001-11-01 The National Academies National Research Council undertook this study in response to a request from the Under Secretary of Energy to provide strategic advice on how the Department of Energy could improve its Environmental Quality R D portfolio The committee recommends that DOE develop strategic goals and objectives for its EQ business line that explicitly incorporate a more comprehensive long term view of its EQ responsibilities For example these goals and objectives should emphasize long term stewardship and the importance of limiting contamination and materials management problems including the generation of wastes and contaminated media in ongoing and future DOE operations Long-Term Institutional Management of U.S. Department of Energy Legacy Waste Sites National Research Council,Commission on Geosciences, Environment, and Resources,Board on Radioactive Waste Management,Committee on the Remediation of Buried and Tank Wastes,2000-11-09 It is now becoming clear that relatively few U S Department of Energy DOE waste sites will be cleaned up to the point where they can be released for unrestricted use Long term stewardship activities to protect human health and the environment from hazards that may remain at its sites after cessation of remediation will be required for over 100 of the 144 waste sites under DOE control U S Department of Energy 1999 After stabilizing wastes that remain on site and containing them as well

as is feasible DOE intends to rely on stewardship for as long as hazards persist in many cases indefinitely Physical containment barriers the management systems upon which their long term reliability depends and institutional controls intended to prevent exposure of people and the environment to the remaining site hazards will have to be maintained at some DOE sites for an indefinite period of time The Committee on Remediation of Buried and Tank Wastes finds that much regarding DOE s intended reliance on long term stewardship is at this point problematic The details of long term stewardship planning are yet to be specified the adequacy of funding is not assured and there is no convincing evidence that institutional controls and other stewardship measures are reliable over the long term Scientific understanding of the factors that govern the long term behavior of residual contaminants in the environment is not adequate Yet the likelihood that institutional management measures will fail at some point is relatively high underscoring the need to assure that decisions made in the near term are based on the best available science Improving institutional capabilities can be expected to be every bit as difficult as improving scientific and technical ones but without improved understanding of why and how institutions succeed and fail the follow through necessary to assure that long term stewardship remains effective cannot reliably be counted on to occur Long Term Institutional Management of U S Department of Energy Legacy Waste Sites examines the capabilities and limitations of the scientific technical and human and institutional systems that compose the measures that DOE expects to put into place at potentially hazardous residually contaminated sites **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 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1995 **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 **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 and Water Development Appropriations for 1996: Department of Energy fiscal year 1996 budget justifications United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1995 **Energy and Water Development Appropriations for 2011: Dept. of Energy fiscal year 2011 justifications (cont.)** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2010 *Congressional Record* United States. Congress,2010 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 Energy and Water Development Appropriations for 2013: Dept. of Energy FY 2013 justifications United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2012 **Monthly Catalogue, United States Public Documents** ,1995 **Energy and Water Development Appropriations for 1995: Department of Energy fiscal year 1995 budget justifications** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1994 *Biological Research for Energy and Medical Applications at the Department of Energy Office of Science* United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Energy and Environment,2009 *Selected Water Resources Abstracts* ,1990 **Energy and Water Development Appropriations for 2012: Dept. of Energy FY 2012 justifications (cont.)** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2011 *Department of Defense Authorization for Appropriations for Fiscal Year 2002* United States. Congress. Senate. Committee on Armed Services,2002 Journal of the House of Representatives of the United States United States. Congress. House,1999 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the

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