

# Long-Term Stewardship and the Nuclear Weapons Complex: The Challenge Ahead

by Katherine N. Probst  
and Michael H. McGovern

# Longterm Stewardship And The Nuclear Weapons Complex

**Raffaela Di Napoli**



## **Longterm Stewardship And The Nuclear Weapons Complex:**

Long-Term Stewardship and the Nuclear Weapons Complex Katherine N. Probst, Michael H. McGovern, 2014-04-04

Decades of U S nuclear weapons production have exacted a heavy environmental toll The Department of Energy estimates that cleaning up waste and contamination resulting from production activities will cost over 150 billion Yet even once that money is spent these sites will need long term attention to assure protection of human health and the environment In the authors words stewardship refers to institutions information and strategies needed to ensure protection of people and the environment both in the short and the long term Probst and McGovern make a compelling case for establishing a formal program of long term stewardship for contaminated sites Their report details the requirements of a successful stewardship program and discusses the daunting technical and political challenges facing such efforts including the designation of an institutional home for key stewardship functions The legacy of environmental damage is considerable hazardous waste disposal radioactive waste and contaminated facilities are among the problems that will remain after DOE cleanup efforts are complete Stewardship planning according to Probst and McGovern must start now

**Long-Term Stewardship Study**  
**Draft: Draft for Public Comment , 106-2 Hearings: Energy And Water Development Appropriations For 2001, Part 6, March 21, 2000 ,2000** Energy and Water Development Appropriations for 2001 United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2000 **Energy and Water Development Appropriations for 2001: Department of Energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2000 *Forum for Applied Research and Public Policy* ,1999

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

**Governance of Radioactive Waste, Special Waste and Carbon Storage** Thomas Flüeler,2023-04-05 This book demonstrates that the long term safety of nuclear waste repositories special waste disposal and carbon storage CCS is highly challenging and monitoring may contribute to substantiate evidence support decision making and legitimise the programme Deep geological disposal is a long term safety issue and in parallel requires long term institutional involvement of the technoscientific community waste producers public administrators NGOs and the public What where and when to monitor is determined by its goal setting It may be operational confirmatory in the near field or environmental far field Strategic monitoring as proposed here contributes to process implementation or policy and institutional surveillance It not only addresses the controversial long lasting problem of nuclear other toxic or CO2 waste but investigates some ways to approach for solutions or solution spaces not just technical but also institutional societal and personal It includes the tailored transfer of knowledge concept and system understanding experience and documentation to specific audiences above It is an integrative tool of targeted yet adaptive management and may be applicable to other long term sociotechnical fields

*Energy and Water Development Appropriations for 2004* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003 Hearings on National Defense Authorization Act for Fiscal Year 1993--H.R. 5006 and Oversight of Previously Authorized Programs Before the Committee on Armed Services, House of Representatives, One Hundred Second Congress, Second Session United States. Congress. House. Committee on Armed Services. Department of Energy, Defense Nuclear Facilities Panel,1993 *Energy and Water Development Appropriations for 2004: Department of Energy fiscal year 2004 budget justifications* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003 **108-1 Hearings: Energy and Water Development Appropriations For 2004, Part 4, 2003, \***,2003 *U.S. Department of Energy Performance and Accountability Report: Fiscal Year 2003* , The Budget of the United States Government United States. Office of Management and Budget,2009 **Environmental Cleanup at Navy Facilities** National Research Council,Division on Earth and Life Studies,Water Science and Technology Board,Committee on Environmental Remediation at Naval

Facilities,2003-07-16 The number of hazardous waste sites across the United States has grown to approximately 217 000 with billions of cubic yards of soil sediment and groundwater plumes requiring remediation Sites contaminated with recalcitrant contaminants or with complex hydrogeological features have proved to be a significant challenge to cleanup on every level technologically financially legally and sociopolitically Like many federal agencies the Navy is a responsible party with a large liability in hazardous waste sites Environmental Cleanup at Navy Facilities applies the concepts of adaptive management to complex high risk hazardous waste sites that are typical of the military EPA and other responsible parties The report suggests ways to make forward progress at sites with recalcitrant contamination that have stalled prior to meeting cleanup goals This encompasses more rigorous data collection and analysis consideration of alternative treatment technologies and comprehensive long term stewardship *Energy and Water Development Appropriations for Fiscal Year 2009* United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development,2009

**Management of Long Term Radiological Liabilities** International Atomic Energy Agency,2006 Experience in IAEA member states has often shown that sites with radiation legacies cannot be remediated to residual levels of radioactivity below concern and so cannot be released for unrestricted use Residual contamination buried wastes and other hazards may remain after cleanup is complete for several reasons including technical limitations economic feasibility worker health and safety issues This publication deals with the key conceptual managerial and technical issues involved in the maintenance of institutional control over sites for prolonged periods of time possibly for hundreds or even thousands of years The management of sites with such long term radiological liabilities is often referred to as stewardship **Department of Energy Budget Request for Fiscal Year 1999 and Related Matters** United States. Congress. House. Committee on National Security. Subcommittee on Military Procurement,1998 **Department of Defense Authorization for Appropriations for Fiscal Year 2009, S.Hrg. 110-394, Pt.7, March 4, 12; April 1, 2008, 110-2 Hearings, \***,2009 Energy and Water Development Appropriations for Fiscal Year ... United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development,2003

The Enigmatic Realm of **Longterm Stewardship And The Nuclear Weapons Complex**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Longterm Stewardship And The Nuclear Weapons Complex** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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web step 1 the design and cad model it all started with a proper design in my case a few sketches to get a good feeling for the dimensions and shape quickly after the sketching phase came the cad model i created my model in solidworks if you plan to design your own machine i recommend a parametric cad modeling tool

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web jan 17 2023 buildyourcnc focuses on building diy cnc machines and selling those build plans to hobbyists their cnc router plans are available in customizable sizes with the option to include a laser module and 4th axis if you want a customized cnc router but don t want to build it yourself buildyourcnc will build one for you as per your

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web there is no need for high precision and expensive tools to build this machine using the techniques i have listed in this instructable for marking centering drilling and tapping anyone with the desire to build something well will be able to complete this project

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web step 1 the design tools and material before starting to build a machine you will always have to make some sort of a design sometimes it only have to be some sketches on a piece of paper but for this machine a more precise three dimensional drawing was required i made my design using google sketchup