The Shallow Land Burial Of Low Level Radioactively Contaminated Solid Waste

The Shallow Land Burial Of Low Level Radioactively Contaminated Solid Waste Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**The Shallow Land Burial Of Low Level Radioactively Contaminated Solid Waste**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

Recent Trends in Hydrogeology
Thiruppudaimarudhur N. Narasimhan
1982-01-01
The Shallow Land Burial of Low-level Radioactively Contaminated Solid Waste
National Research Council (U.S.). Panel on Land Burial 1976
Considerations of Environmental Protection Criteria for Radioactive Waste Waste

Environmental Standards Program (U.S.) 1978
Final Environmental Impact Statement on the Disposal of Decommissioned, Defueled Naval Submarine Reactor Plants United States. Navy Department 1984
Some Aspects of Low-level Radioactive-waste Disposal in the US. 1982 This report summarizes the NRC supported Shallow Land Burial research program at Brookhaven National Laboraotry and its relationship to the proposed revised ruling on disposal of low level radioactive waste, 10 CFR Part 61. Section of the proposed regulation, which establish the new low level waste classification system and the performance objective placed on waste form, are described briefly. The report also summarizes the preliminary results obtained from the EPA program in which low level waste drums were retrieved from the Atlantic and Pacific Oceans.
Management of Defense Beta-gamma Contaminated Solid Low-level Wastes 1983 In DOE defense operations, approx. 70,000 m3 of beta-gamma low-level radioactive waste are disposed of annually by shallow land burial operations at six primary sites. Waste generated at other DOE sites are transported on public roads to the primary sites for disposal. In the practice of low-level waste (LLW) disposal in the US, the site hydrology and geology are the primary barriers to radioactive migration. To date, little emphasis has been placed on waste form improvements or engineered site modifications to reduce migration potential. Compaction is the most common treatment step employed. The performance of ground disposal of radioactive waste in this country, in spite of many practices that we would consider unacceptable in today's light, has resulted in very little migration of radioactivity outside site boundaries. Most problems with previously used burial grounds have been from subsidence at the arid sites and subsidence and groundwater contact at the humid sites. The radionuclides

that have shown the most significant migration are tritium, 9°Sr, and 99Tc. The unit cost for disposal operations at a given DOE site is dependent on many variables, but the annual volume to be disposed is probably the major factor. The average cost for current DOE burial operation is approximately $170/m3. 23 figures. *Near-surface Land Disposal* J. Howard Kittel 1989

History of Disposal of Radioactive Wastes Into the Ground at Oak Ridge National Laboratory 1986 Since the beginning of operations at the Oak Ridge National Laboratory (ORNL) in 1943, shallow land burial has been used for the disposal of solid low-level radioactive waste. These wastes have originated from nearly every operating facility, and from 1955 to 1963, ORNL's solid waste storage areas were designated by the Atomic Energy Commission (AEC) as the Southern Regional Burial Ground. During this period, about one million cubic feet of solid waste from various off-site installations were buried in solid waste storage areas (SWSAs) 4 and 5. Six SWSAs have been used since land burial operations began at ORNL in early 1944. ORNL has generated liquid radioactive waste since the separation of plutonium began in 1944. The majority of these wastes are classified as process (low-level) waste and are derived from evaporator condensate and cooling water from process vessels, and from building drains and surface drainage from contaminated areas. Process wastes are monitored at sampling stations located strategicially throughout the plant, and for nearly 15 years (1944 to 1957) they were discharged directly into White Oak Creek without being treated chemically to remove radionuclides. A smaller quantity of intermediate-level wastes (ILW) originate from the radiochemical separation process and from test reactors. The collection, treatment, and methods of disposal of ILW from the years 1943 to 1981 are described. Over this period of time

there was a great deal of variation in the amounts and types of radioactive liquid wastes generated.

EPA 570/9 1983-12

Handbook of Environmental Radiation Alfred W. Klement The primary aim of the handbook series will be to include as much useful data as possible for the specialist needing ready access for the solution of problems most likely to arise in the radiation protection professions. However, some selected review of fundamental concepts is also included to enable persons with a basic science or engineering background to acquire the necessary knowledge to solve a majority of problems in especially important aspects of radiation protection. Also since the profession is broad in discipline, an attempt has been made to fulfil the frequent need of professionals for a refresher course in some of the more important fundamentals needed to utilize data included in the handbook. Principles of management, organization, and procedures related to radiation safety will also be summarized in later volumes, with attention to presentation of methods for establishing new radiation safety programs based on the accumulated experience of others.

Nuclear Waste Management Reorganization Act of 1979 United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Energy, Nuclear Proliferation, and Federal Services 1980

Surface Impoundment Assessment 1984

Shallow Land Burial of Low-level Radioactive Waste Johnnie B. Cannon 1986

United States Geological Survey Annual Report Geological Survey (U.S.). 1975

Site Selection Criteria for the Shallow Land Burial of Low-level Radioactive Waste K. L. Falconer 19??

NUREG/CR. U.S. Nuclear Regulatory Commission 1978

Nuclear Waste Disposal United States. Congress. Senate. Committee on Commerce,

Science, and Transportation. Subcommittee on Science, Technology, and Space 1978

Low Level Radioactive Waste Disposal United States. Congress. House. Committee on Government Operations 1976

Development Activities on Shallow Land Disposal of Solid Radioactive Waste. Progress Report, January--December 1976 1977 Progress on projects focused on problems of shallow land burial of radioactively contaminated solid waste is summarized. Developments on a system to evaluate the containment adequacy of existing burial sites are described. Efforts to describe the environmental factors in monitoring the LASL disposal sites are discussed. The aim of a new program on radioactive waste burial technology is outlined.

Radioactive Waste Processing and Disposal U.S. Nuclear Regulatory Commission 1980

Low-Level Radioactive Waste Management and Disposition National Academies of Sciences, Engineering, and Medicine 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.

Ratification of Interstate Compacts for Low-level Nuclear Waste Management: H.R. 1012 ... H.R. 3002 ... H.R. 3777 ... H.R. 4388 United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment 1983

Energy Abstracts for Policy Analysis 1977

Shallow Land Burial 1979 Since the mid-1940's, in excess of 250,000 m3 of low- and intermediate-level radioactive solid waste, generated in operations at the Los Alamos Scientific Laboratory (LASL), has been disposed of by on-site shallow land burial and retrievable storage in dry volcanic tuff. Guidelines have been developed at LASL which regulate the construction of waste disposal facilities, burial and storage operations, disposal site maintenance and restoration, and documentation of all waste disposal activities. Monitoring programs at the past and current solid waste disposal sites have continued to show that, with the exception of low levels of tritium, no migration of contaminants away from their disposal location has been detected.

Solid Waste Management Dorothy P. Mitchell 1979

Environmental Health Perspectives 1993

Nuclear Waste Management United States. Congress. House. Committee on Science and Technology. Subcommittee on Fossil and Nuclear Energy Research, Development, and Demonstration 1978

Comments and Recommendations Based on the Report "The Shallow Land Burial of Low-level Radioactively Contaminated Solid Waste" National Research Council (U.S.). Panel

to Review the DOE Assessment of the Pre-1970 Buried Transuranic Waste at the Idaho National Engineering Laboratory 1993

The Shallow Land Burial of Low- Level Radioactively Contaminated Solid Waste 1976

Energy Research Abstracts 1990

Ratification of interstate compacts for low-level nuclear waste management United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment 1983

A Survey of Packaging for Solidified Low-level Radioactive Waste United States. Environmental Protection Agency. Office of Radiation Programs 1978

The Shallow Land Burial of Low-level Radioactively Contaminated Solid Waste National Research Council (U.S.). Panel on Land Burial 1976

Site Characterization Data for Solid Waste Storage Area 6 1984 Currently, the only operating shallow land burial site for low-level radioactive waste at the Oak Ridge National Laboratory (ORNL) is Solid Waste Storage Area No. 6 (SWSA-6). In 1984, the US Department of Energy (DOE) issued Order 5820.2, Radioactive Waste Management, which establishes policies and guidelines by which DOE manages its radioactive waste, waste by-products, and radioactively contaminated surplus facilities. The ORNL Operations Division has given high priority to characterization of SWSA-6 because of the need for continued operation under DOE 5820.2. The purpose of this report is to compile existing information on the geologic and hydrologic cond.

United States Geological Survey Yearbook Geological Survey (U.S.) 1977

Hearings, Reports and Prints of the Senate Committee on Commerce, Science, and Transportation United States. Congress. Senate. Committee on Commerce, Science, and Transportation 1978

Monthly Catalog of United States Government

Publications 1978

Progress Report on the Design of a Low-Level Waste Pilot Facility at ORNL. 1980 All low-level radioactive solid wastes, excluding TRU wastes, are disposed of by shallow land burial at the Oak Ridge National Laboratory. Contaminated liquids and sludges are hydrofractures. The TRU wastes are stored in a retrievable fashion in concrete storage facilities. Currently, the capacity for low-level radioactive waste burial at the Oak Ridge National Laboratory is adequate for another six years of service at the current solids disposal rate which ranges between 80,000 and 100,000 cu ft per year. Decontamination and decommissioning of a number of ORNL facilities will be a significant activity in the next few years. Quantities of radioactive materials to be stored or disposed of as a result of these activities will be large; therefore, the technology to dispose of large quantities of low-level radioactive wastes must be demonstrated. The UCC-ND Engineering Division, in concert with divisions of the Oak Ridge National Laboratory, has been requested to prepare a conceptual design for a facility to both dispose of the currently produced low-level radioactive waste and also to provide a test bed for demonstration of other processes which may be used in future low-level radioactive wastes disposal facilities. This facility is designated as the Low-Level Waste Pilot Facility (LLWPF). This paper describes the status of the conceptual design of a facility for disposal of the subject radioactive waste.

Groundwater Quality Assessment Report for Solid Waste Storage Area 6 at Oak Ridge National Laboratory, Oak Ridge, Tennessee 1998 Solid Waste Storage Area (SWSA) 6, located at the US Department of Energy (DOE) Oak Ridge National Laboratory (ORNL) facility, is a shallow land burial site for low-level radioactive waste (LLW) and other waste types. Wastes were disposed of in unlined trenches and auger holes from 1969 until May 1986, when it was

determined that Resource Conservation and Recovery Act (RCRA) regulated wastes were being disposed of there. DOE closed SWSA 6 until changes in operating procedures prevented the disposal of RCRA wastes at SWSA 6. The site, which reopened for waste disposal activities in July 1986, is the only currently operated disposal area for low-level radioactive waste at ORNL. This report provides the results of the 1998 RCRA groundwater assessment monitoring. The monitoring was performed in accordance with the proposed routine monitoring plan recommended in the 1996 EMP. Section 2 provides pertinent background on SWSA 6. Section 3 presents the 1998 monitoring results and discusses the results in terms of any significant changes from previous monitoring efforts. Section 4 provides recommendations for changes in monitoring based on the 1998 results. References are provided in Section 5. Appendix A provides the 1998 RCRA Sampling Data and Appendix B provides a summary of 1998 Quality Assurance results.

Alternatives to Shallow Land Burial for the Management of Low-level Radioactive Waste Willie J. Lee 1986

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