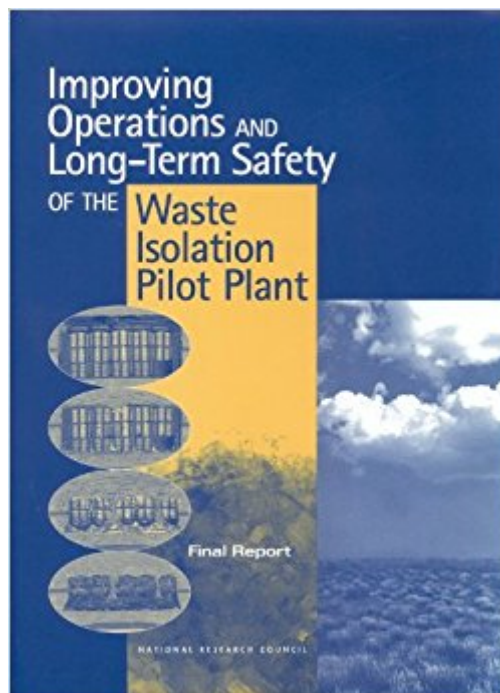




Ebook Directory
the best source of ebook

The book was found

Improving Operations And Long-Term Safety Of The Waste Isolation Pilot Plant: Final Report



Synopsis

The Waste Isolation Pilot Plant (WIPP) is a deep underground mined facility for the disposal of transuranic waste resulting from the nation's defense program. Transuranic waste is defined as waste contaminated with transuranic radionuclides with half-life greater than 20 years and activity greater than 100 nanocuries per gram. The waste mainly consists of contaminated protective clothing, rags, old tools and equipment, pieces of dismantled buildings, chemical residues, and scrap materials. The total activity of the waste expected to be disposed at the WIPP is estimated to be approximately 7 million curies, including 12,900 kilograms of plutonium distributed throughout the waste in very dilute form. The WIPP is located near the community of Carlsbad, in southeastern New Mexico. The geological setting is a 600-meter thick, 250 million-year-old saltbed, the Salado Formation, lying 660 meters below the surface. The National Research Council (NRC) has been providing the U.S. Department of Energy (DOE) scientific and technical evaluations of the WIPP since 1978. The committee's task is twofold: (1) to identify technical issues that can be addressed to enhance confidence in the safe and long-term performance of the repository and (2) to identify opportunities for improving the National Transuranic (TRU) Program for waste management, especially with regard to the safety of workers and the public. This is the first full NRC report issued following the certification of the facility by the U.S. Environmental Protection Agency (EPA) on May 18, 1998. An interim report was issued by the committee in April 2000 and is reproduced in this report. The main findings and recommendations from the interim report have been incorporated into the body of this report. The overarching finding and recommendation of this report is that the activity that would best enhance confidence in the safe and long-term performance of the repository is to monitor critical performance parameters during the long pre-closure phase of repository operations (35 to possibly 100 years). Indeed, in the first 50 to 100 years the rates of important processes such as salt creep, brine inflow (if any), and microbial activity are predicted to be the highest and will be less significant later. The committee recommends that the results of the on-site monitoring program be used to improve the performance assessment for recertification purposes. These results will determine whether the need for a new performance assessment is warranted. For the National TRU Program, the committee finds that the DOE is implementing many of the recommendations of its interim report. It is important that the DOE continue its efforts to improve the packaging, characterization, and transportation of the transuranic waste.

Book Information

Series: Compass Series

Paperback: 142 pages

Publisher: National Academies Press; 1st edition (January 15, 2001)

Language: English

ISBN-10: 0309073448

ISBN-13: 978-0309073448

Product Dimensions: 0.2 x 8 x 10.5 inches

Shipping Weight: 15.2 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #17,233,234 in Books (See Top 100 in Books) #89 in Books > Textbooks > Engineering > Nuclear Engineering #256 in Books > Science & Math > Environment > Recycling #3150 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear

Customer Reviews

Committee on the Waste Isolation Pilot Plant, Board on Radioactive Waste Management, National Research Council

just fine, very comfortable and very fine . EVERYTHING IS GREAT. Love this product. just what I was looking for at a reasonable price. Delivery was very fast. give my parents ,

[Download to continue reading...](#)

Improving Operations and Long-Term Safety of the Waste Isolation Pilot Plant: Final Report Who Will Care For Us? Long-Term Care and the Long-Term Workforce: Long-Term Care and the Long-Term Workforce Characterization of Remote-Handled Transuranic Waste for the Waste Isolation Pilot Plant: Final Report (Compass series) Long-Term Dynamics of Lakes in the Landscape: Long-Term Ecological Research on North Temperate Lakes (Long-Term Ecological Research Network Series) Who Will Care For Us? Long-Term Care and the Long-Term Workforce The 9/11 Commission Report: Final Report of the National Commission on Terrorist Attacks Upon the United States (Authorized Edition) The 9/11 Commission Report: Final Report of the National Commission on Terrorist Attacks Upon the United States The Pilot's Manual: Ground School (PDF eBook Edition): All the aeronautical knowledge required to pass the FAA exams and operate as a Private and Commercial Pilot (The Pilot's Manual Series) Improving Dementia Long-Term Care: A Policy Blueprint Fullpower Safety Comics: People Safety Skills for Teens and Adults (Kidpower Safety Comics) Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety

Comics) Extreme Wilderness Survival: Essential Knowledge to Survive Any Outdoor Situation
Short-Term or Long-Term, With or Without Gear and Alone or With Others Wilderness Survival
Handbook: Primitive Skills for Short-Term Survival and Long-Term Comfort The Business of
Flipping Homes: Short-Term Real Estate Investing for Long-Term Wealth How Not To Die: 50
Whole Food, Budget Friendly Meals-Reduce Your Meat Intake And Embrace A Plant Based Diet To
Prevent Long-Term Health Implications American Horticultural Society Plant Propagation: The Fully
Illustrated Plant-by-Plant Manual of Practical Techniques Stocks for the Long Run 5/E: The
Definitive Guide to Financial Market Returns & Long-Term Investment Strategies (Management &
Leadership) Landslides: Investigation and Mitigation : Special Report 247 (Special Report (National
Research Council (U S) Transportation Research Board)) The Iraqi Perspectives Report: Saddam's
Senior Leadership on Operation Iraqi Freedom from the Official U. S. Joint Forces Command
Report Future Trends in Veterinary Public Health: Report of a WHO Study Group (WHO Technical
Report Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)