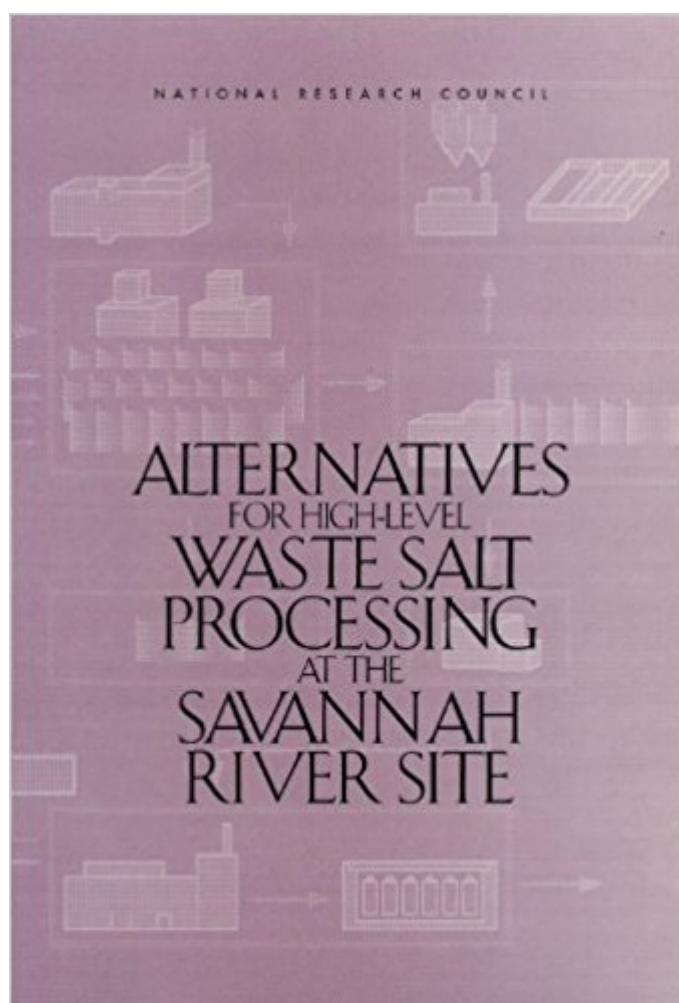


The book was found

Alternatives For High-Level Waste Salt Processing At The Savannah River Site



Synopsis

The Second World War introduced the world to nuclear weapons and their consequences. Behind the scene of these nuclear weapons and an aspect of their consequences is radioactive waste. Radioactive waste has varying degrees of harmfulness and poses a problem when it comes to storage and disposal. Radioactive waste is usually kept below ground in varying containers, which depend on how radioactive the waste is. High-level radioactive waste (HLW) can be stored in underground carbon-steel tanks. However, radioactive waste must also be further immobilized to ensure our safety. There are several sites in the United States where high-level radioactive waste (HLW) are stored; including the Savannah River Site (SRS), established in 1950 to produce plutonium and tritium isotopes for defense purposes. In order to further immobilize the radioactive waste at this site an in-tank precipitation (ITP) process is utilized. Through this method, the sludge portion of the tank wastes is being removed and immobilized in borosilicate glass for eventual disposal in a geological repository. As a result, a highly alkaline salt, present in both liquid and solid forms, is produced. The salt contains cesium, strontium, actinides such as plutonium and neptunium, and other radionuclides. But is this the best method? The National Research Council (NRC) has empanelled a committee, at the request of the U.S. Department of Energy (DOE), to provide an independent technical review of alternatives to the discontinued in-tank precipitation (ITP) process for treating the HLW stored in tanks at the SRS. *Alternatives for High-Level Waste Salt Processing at the Savannah River Site* summarizes the finding of the committee which sought to answer 4 questions including: "Was an appropriately comprehensive set of cesium partitioning alternatives identified and are there other alternatives that should be explored?" and "Are there significant barriers to the implementation of any of the preferred alternatives, taking into account their state of development and their ability to be integrated into the existing SRS HLW system?"

Book Information

Series: Compass Series

Paperback: 141 pages

Publisher: National Academies Press; 1st edition (January 15, 2000)

Language: English

ISBN-10: 0309071941

ISBN-13: 978-0309071949

Product Dimensions: 8.5 x 11 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #10,735,109 in Books (See Top 100 in Books) #54 in [Books > Textbooks > Engineering > Nuclear Engineering](#) #166 in [Books > Science & Math > Environment > Recycling](#) #1703 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Toxicology](#)

Customer Reviews

Committee on Cesium Processing Alternatives for High-Level Waste at the Savannah River Site, Board on Radioactive Waste Management, Board on Chemical Sciences and Technology

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

Alternatives for High-Level Waste Salt Processing at the Savannah River Site Research and Development on a Salt Processing Alternative for High-Level Waste at the Savannah River Site Fishes of the Middle Savannah River Basin: With Emphasis on the Savannah River Site Geoenvironmental Engineering: Site Remediation, Waste Containment, and Emerging Waste Management Technologies Setup in Savannah: A Made in Savannah Cozy Mystery (Made in Savannah Cozy Mysteries Series Book 7) Missing in Savannah: A Made in Savannah Cozy Mystery (Made in Savannah Cozy Mysteries Series Book 6) Justice in Savannah: A Made in Savannah Cozy Mystery (Made in Savannah Cozy Mysteries Series Book 3) Swag in Savannah: A Made in Savannah Cozy Mystery (Made in Savannah Cozy Mysteries Series Book 4) Trouble in Savannah: A Made in Savannah Cozy Mystery (Made in Savannah Cozy Mysteries Series Book 5) Savannah Cats as Pets: Savannah Cat Breeding, Where to Buy, Types, Care, Temperament, Cost, Health, Showing, Grooming, Diet and Much More Included! A Complete Savannah Cat Owner Guide Savannah,GA in 3 Days Travel Guide 2017: A 72 Hours Perfect Plan with the Best Things to Do in Savannah: A Step-by-Step Plan on How to Enjoy 3 Amazing ... Savannah.Save Time&Money-20 Local Secrets Savannah Visitor's Map Pack - Savannah Historic District, Haunted Savannah, Bonaventure Cemetery Illustrated Maps High Fiber Recipes: 101 Quick and Easy High Fiber Recipes for Breakfast, Snacks, Side Dishes, Dinner and Dessert (high fiber cookbook, high fiber diet, high fiber recipes, high fiber cooking) Epsom Salt: The Magic Mineral For - Weight Loss, Eczema, Psoriasis, Gout & Much More! (Yeast Infection, Enema, Acne, Dead Sea Salt, Sea Salt, Magnesium, Natural Hair Care) Salt Lake City, Utah: Including its History, The Utah Museum of Fine Arts, The Salt Lake Temple, The Bonneville Salt Flats, and More What You Must Know about Statin Drugs & Their Natural Alternatives: A Consumer's Guide to Safely Using Lipitor, Zocor, Mevacor, Crestor, Pravachol, or Natural Alternatives CANOEING The Jersey Pine Barrens: Paddling

adventures along the Batsto River, Toms River, Rancocas Creek, Great Egg Harbor River, Mullica River
Zero Waste Home: The Ultimate Guide to Simplifying Your Life by Reducing Your Waste
Feedstock Recycling and Pyrolysis of Waste Plastics: Converting Waste Plastics into Diesel and
Other Fuels
Characterization of Remote-Handled Transuranic Waste for the Waste Isolation Pilot
Plant: Final Report (Compass series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)