

1. Record Nr.	UNINA9910778615303321
Titolo	Alternatives for high-level waste salt processing at the Savannah River Site [[electronic resource] ] / 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, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, c2000
ISBN	0-309-17158-X 1-280-18528-7 9786610185283 0-309-56357-7
Descrizione fisica	1 online resource (154 p.)
Collana	Compass series
Disciplina	621.4838
Soggetti	Radioactive waste disposal Salts
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Support for this study was provided by the U.S. Department of Energy under Grant No. DE-FC01-99EW59049"--T.p. verso.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""ALTERNATIVES FOR HIGH-LEVEL WASTE SALT PROCESSING AT THE SAVANNAH RIVER SITE""; ""Copyright""; ""Acknowledgements""; ""List of Report Reviewers""; ""Contents""; ""Summary""; ""1 Introduction""; ""BACKGROUND ON THE HIGH-LEVEL WASTE PROGRAM AT SAVANNAH RIVER""; ""Waste Concentration and Storage""; ""Radionuclide Immobilization""; ""Extended Sludge Processing""; ""Salt Processing""; ""Salt Disposal""; ""ORIGIN OF THE CESIUM REMOVAL PROBLEM""; ""IDENTIFICATION OF PROCESSES FOR CESIUM REMOVAL""; ""Strontium/Actinide Removal by MST""; ""Tetraphenylborate Precipitation Process"" ""Crystalline Silicotitanate Ion Exchange""""Caustic Side Solvent Extraction""; ""Direct Disposal in Grout""; ""RECOMMENDATIONS FROM THE COMMITTEE'S INTERIM REPORT""; ""GENERIC ISSUES""; ""2 Screening Procedure""; ""BACKGROUND""; ""Literature and Patent Search""; ""Initial Selection of Process Alternatives (Phase I)""; ""Reduction of Process Alternatives to Four (Phase II)""; ""Selection of Recommended Process

Alternative (Phases III and IV)"; "ANALYSIS AND FINDINGS";  
"Literature and Patent Search"; "Initial Selection of Process  
Alternatives (Phase I)"  
"Reduction of Process Alternatives to Four (Phase II)" "Selection of  
Recommended Process Alternative (Phases III and IV)" "GENERAL  
CONCLUSIONS"; "RECOMMENDATIONS"; "3 Strontium and Actinide  
Removal"; "BASELINE APPROACH"; "STRONTIUM AND ACTINIDE  
REMOVAL"; "MST SOLIDS REMOVAL"; "GLASS COMPATIBILITY"; "MST  
AVAILABILITY"; "ALTERNATE PROCESSES"; "R&D ACTIVITIES TO  
RESOLVE UNCERTAINTIES"; "ANALYSIS"; "RECOMMENDATIONS"; "4  
Tetraphenylborate: In-Tank Precipitation and Small-Tank Precipitation  
Options"; "In-Tank Precipitation Process"; "Small-Tank TPB  
Precipitation"  
"ANALYSIS" "FINDINGS AND CONCLUSIONS"; "RECOMMENDATIONS";  
"5 Crystalline Silicotitanate Ion Exchange"; "PHYSICAL, CHEMICAL,  
AND MINERALOGICAL CHARACTERISTICS OF CST"; "ISSUES TO BE  
ADDRESSED FOR CST"; "ANALYSIS"; "FINDINGS AND CONCLUSIONS";  
"RECOMMENDATIONS"; "6 Caustic Side Solvent-Extraction Process";  
"DESCRIPTION OF THE PROCESS"; "ANALYSIS, FINDINGS AND  
CONCLUSIONS"; "RECOMMENDATIONS"; "7 Direct Grout Option";  
"PROCESS DETAILS"; "OBSTACLES TO SUCCESSFUL  
IMPLEMENTATION"; "ANALYSIS"; "FINDINGS AND CONCLUSIONS";  
"RECOMMENDATIONS"  
"8 Barriers to Implementation of HLW Salt Processing Options" "SYSTEMS INTEGRATION"; "PROGRAM MANAGEMENT"; "References";  
"Appendix A Biographical Sketches of Committee Members";  
"Appendix B Interim Report "; "ATTACHMENT A"; "NRC Staff";  
"ATTACHMENT C"; "HIGH-LEVEL WASTE SYSTEM AT SAVANNAH RIVER  
SITE"; "SALT PROCESSING OPTIONS"; "Appendix C Information-  
Gathering Meetings"; "PRESENTATIONS GIVEN DURING FIRST  
COMMITTEE MEETING"; "PRESENTATIONS GIVEN DURING SECOND  
COMMITTEE MEETING"; "Appendix D Incidental Waste"  
"ROLE OF THE U.S. NUCLEAR REGULATORY COMMISSION IN  
INCIDENTAL WASTE DETERMINATIONS"

---