

1. Record Nr.	UNINA9910456019203321
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	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 Electronic books.
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"
