

1. Record Nr.	UNINA9910777448203321
Titolo	Electrometallurgical techniques for DOE spent fuel treatment [[electronic resource]] : status report on Argonne National Laboratory's R&D activity as of Fall 1998 / / Committee on Electrometallurgical Techniques for DOE Spent Fuel Treatment, Board on Chemical Sciences and Technology, Commission on Physical Sciences, Mathematics, and Applications, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1999
Descrizione fisica	1 online resource (93 p.)
Disciplina	621.4838
Soggetti	Radioactive wastes - Purification Spent reactor fuels - Management Electrometallurgy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""ELECTROMETALLURGICAL TECHNIQUES FOR DOE SPENT FUEL TREATMENT""; ""Copyright""; ""Acknowledgment of Reviewers""; ""Contents""; ""Executive Summary""; ""SPENT FUEL OPERATIONS""; ""Summary of Progress Through October 1998""; ""High-Throughput Electrorefiners""; ""Cathode Processor and Casting Furnace Unit""; ""RESEARCH AND DEVELOPMENT IN SUPPORT OF ARGONNE NATIONAL LABORATORY'S DEMONSTRATION PROJECT""; ""Metal Waste Form Testing and Plans""; ""Metal Waste Form Release Rate""; ""Ceramic Waste Form Testing and Development""; ""Hot Isostatic Pressing""; ""Additional Ceramic Waste Form Development Issues""; ""Demonstration-Scale CWF Processes""; ""Electrometallurgical Treatment of Oxide and Aluminum Alloy Fuels""; ""Oxide Fuels""; ""Aluminum Alloy Spent Fuels""; ""OVERALL PROGRESS IN ANL'S DEMONSTRATION PROJECT""; ""1 Introduction ""; ""2 Spent Fuel Operations ""; ""ELECTROMETALLURGICAL DEMONSTRATION PROJECT SUMMARY OF PROGRESS THROUGH OCTOBER 27, 1998""; ""Electrorefiner Operations at Argonne National Laboratory-West and Argonne National Laboratory-East""; ""FINDING""; ""RECOMMENDATIONS""; ""Cathode

Processor and Casting Furnace Unit"

""3 Research and Development in Support of Argonne National Laboratory's Demonstration Project """"METAL WASTE FORM TESTING AND PLANS""; ""Metal Waste Form Release Rate""; ""FINDINGS""; ""RECOMMENDATIONS""; ""CERAMIC WASTE FORM TESTING AND DEVELOPMENT""; ""Hot Isostatic Pressing""; ""RECOMMENDATION""; ""Additional Ceramic Waste Form Development Issues""; ""RECOMMENDATION""; ""Demonstration-Scale CWF Processes""; ""ELECTROMETALLURGICAL TREATMENT OF OXIDE AND ALUMINUM ALLOY FUELS""; ""Oxide Fuels""; ""Aluminum Alloy Spent Fuels""; ""4 Overall Progress in ANL's EMT Demonstration Project ""
""Appendices""""Appendix A Charge for the Committee on Electrometallurgical Techniques for DOE Spent Fuel Treatment (Phase 3 ""); ""Appendix B Demonstration Project Success Criteria and Demonstration Project Accomplishments Through October 26, 1998"";
""DEMONSTRATION PROJECT SUCCESS CRITERIA""; ""DEMONSTRATION PROJECT ACCOMPLISHMENTS""; ""Significant Accomplishments in the Treatment Process as Reported by ANL at the Committee's June 1998 Meeting""; ""Significant Accomplishments in the Treatment Process as Reported by ANL at the Committee's October 1998 Meeting""
""Appendix C ANL Monthly Highlights of the Electrometallurgical Treatment Program """"Electrometallurgical Treatment Program Technical Highlights for May 1998""; ""WBS 1.0 Treatment Operations""; ""WBS 1.1 Driver Treatment""; ""WBS 1.2 Blanket Treatment""; ""WBS 1.3 Metal Waste""; ""WBS 1.4 Ceramic Waste Operation with Irradiated Materials""; ""WBS 1.5 Facility Operations""; ""WBS 2.0 Equipment and Facility Modifications""; ""WBS 3.0 Treatment Process Development""; ""WBS 4.0 Process Modeling and Analysis""; ""WBS 5.0 Metal Waste Treatment Development""
""WBS 6.0 Metal Waste Qualification Testing""
