

1. Record Nr.	UNINA9910702717403321
Autore	Duncan Renee
Titolo	U.S. nuclear weapons stockpile : tritium and lithium production issues / / Renee Duncan, editor
Pubbl/distr/stampa	New York, [New York] : , : Novinka, , 2016 ©2016
ISBN	1-63484-476-9
Descrizione fisica	1 online resource (89 p.)
Collana	Nuclear Materials and Disaster Research
Disciplina	355.8251190973
Soggetti	Uranium enrichment - International cooperation Tritium - Government policy - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	U.S. NUCLEAR WEAPONS STOCKPILE TRITIUM AND LITHIUM PRODUCTION ISSUES ; U.S. NUCLEAR WEAPONS STOCKPILE TRITIUM AND LITHIUM PRODUCTION ISSUES ; Library of Congress Cataloging-in- Publication Data; CONTENTS ; PREFACE ; Chapter 1 DEPARTMENT OF ENERGY: INTERAGENCY REVIEW NEEDED TO UPDATE U.S. POSITION ON ENRICHED URANIUM THAT CAN BE USED FOR TRITIUM PRODUCTION* ; WHY GAO DID THIS STUDY ; WHAT GAO RECOMMENDS; WHAT GAO FOUND ; ABBREVIATIONS ; BACKGROUND ; International Agreements and Peaceful Use Restrictions Existing and Proposed Enrichment Facilities in the United States That Use or Will Use Foreign Technology U.S. Involvement in the Nuclear Fuel Cycle Markets ; Tritium Production; DOE HAS ONLY USED UNOBLIGATED LEU TO MEET NATIONAL SECURITY NEEDS FOR TRITIUM PRODUCTION ; DOE'S PRACTICE OF USING UNOBLIGATED LEU FOR TRITIUM PRODUCTION IS BASED ON A MIX OF LEGAL AND POLICY CONSIDERATIONS, BUT A KEY ASSUMPTION UNDERLYING THIS PRACTICE HAS CHANGED ; DOE's Practice of Using Unobligated LEU Is Based on a Mix of Legal and Policy Considerations ; DOE References Legal Considerations for Its Practice Only One of the Three International Agreements We Reviewed Explicitly Addresses by-product Material Such as Tritium U.S. Nonproliferation Policy Goals Call for DOE to Use Unobligated LEU for Tritium

Production; The Key Assumption Underlying DOE's Practice, Available Unobligated LEU, Has Changed; CONCLUSION ; RECOMMENDATION FOR EXECUTIVE ACTION ; AGENCY COMMENTS AND OUR EVALUATION ; APPENDIX I: OBJECTIVES, SCOPE, AND METHODOLOGY ; APPENDIX II: PEACEFUL USE LANGUAGE IN KEY INTERNATIONAL AGREEMENTS ADDRESSING URANIUM ENRICHMENT FACILITIES OPERATING OR PLANNED FOR OPERATION IN THE UNITED STATES APPENDIX III: PEACEFUL USE LANGUAGE IN ADDITIONAL SELECT TREATIES AND INTERNATIONAL AGREEMENTS RELATED TO NONPROLIFERATION AND NUCLEAR TRADE

End Notes; End Notes for Appendix I ; End Note for Appendix III ; Chapter 2 DOE PROJECT MANAGEMENT: NNSA SHOULD ENSURE EQUAL CONSIDERATION OF ALTERNATIVES FOR LITHIUM PRODUCTION ; ABBREVIATIONS; WHY GAO DID THIS STUDY ; WHAT GAO RECOMMENDS ; WHAT GAO FOUND ; BACKGROUND ; NNSA's Nuclear Security Enterprise ; Lithium Production ; Qualification Process ; DOE's Capital Asset Acquisition Process and Mission Need Statement Development

NNSA's Lithium Production Strategy

NNSA HAS IDENTIFIED VARIOUS CHALLENGES IN ITS LITHIUM PRODUCTION STRATEGY ; NNSA Has Identified Challenges in Three Key Areas ; Insufficient Supply of Lithium Material ; Catastrophic Failure of Buildings or Equipment ; Potential Delays in the Availability of the Proposed Lithium Production Capability Facility ; NNSA Has Identified Mitigating Actions to Address Some Challenges ; NNSA'S MISSION NEED STATEMENT FOR A LITHIUM PRODUCTION CAPABILITY IS NOT FULLY INDEPENDENT OF A PARTICULAR SOLUTION ; CONCLUSION ; RECOMMENDATION FOR EXECUTIVE ACTION

AGENCY COMMENTS AND OUR EVALUATION
