

REDUCED ENRICHMENT FOR RESEARCH AND TEST REACTORS

Edited by

D. Reidel



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Reduced Enrichment For Research And Test Reactors

**National Academies of Sciences,
Engineering, and Medicine, Division on
Earth and Life Studies, Nuclear and
Radiation Studies Board, Committee on
the Current Status of and Progress
Toward Eliminating Highly Enriched
Uranium Use in Fuel for Civilian
Research and Test Reactors**

Reduced Enrichment For Research And Test Reactors:

Reduced Enrichment for Research and Test Reactors Peter von der Hardt, A. Travelli, 1986-03-31 Proceedings of an International Meeting Petten The Netherlands October 14-16 1985 **Reduced Enrichment for Research and Test Reactors**, 1988 The international effort to develop new research reactor fuel materials and designs based on the use of low enriched uranium instead of highly enriched uranium has made much progress during the eight years since its inception To foster direct communication and exchange of ideas among the specialist in this area the Reduced Enrichment Research and Test Reactor RERTR Program at the Argonne National Laboratory sponsored this meeting as the ninth of a series which began in 1978 All previous meetings of this series are listed on the facing page The focus of this meeting was on the LEU fuel demonstration which was in progress at the Oak Ridge Research ORR reactor not far from where the meeting was held The visit to the ORR where a silicide LEU fuel with 4.8 g A/cm³ was by then in routine use illustrated how far work has progressed Reduced Enrichment Research and Test Reactor (RERTR) Program, Environmental Assessment (EA), 1980

Proceedings of the 1990 International Meeting on Reduced Enrichment for Research and Test Reactors, Newport, Rhode Island, September 23-27, 1990 Armando Travelli, 1993 **Proceedings of the 1992 International Meeting on Reduced**

Enrichment for Research and Test Reactors, Roskilde, Denmark, September 27-October 1, 1992 Karsten Haack, 1993 **Proceedings of the 1988 International Meeting on Reduced Enrichment for Research and Test Reactors, San Diego, California, September 19-22, 1988**, 1993 **Proceedings of the 1978 International Meeting on Reduced Enrichment for Research and Test Reactors, Argonne, Illinois, November 9-10, 1978**, 1993

Conversion of Research and Test Reactors to Low-enriched Uranium (LEU) Fuel United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications, 1985 **Reduced Enrichment for Research and Test Reactors**, 1995 **Reducing the Use of Highly Enriched Uranium in Civilian Research Reactors** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on the Current Status of and Progress Toward Eliminating Highly Enriched Uranium Use in Fuel for Civilian Research and Test Reactors, 2016-03-12 The continued presence of highly enriched uranium HEU in civilian installations such as research reactors poses a threat to national and international security Minimization and ultimately elimination of HEU in civilian research reactors worldwide has been a goal of U S policy and programs since 1978 Today 74 civilian research reactors around the world including 8 in the United States use or are planning to use HEU fuel Since the last National Academies of Sciences Engineering and Medicine report on this topic in 2009 28 reactors have been either shut down or converted from HEU to low enriched uranium fuel Despite this progress the large number of remaining HEU fueled reactors demonstrates that an HEU minimization program continues to be needed on a worldwide scale Reducing the Use of Highly Enriched Uranium in Civilian Research Reactors assesses the status of and progress toward

eliminating the worldwide use of HEU fuel in civilian research and test reactors Proceedings of the 1990 International Meeting on Reduced enrichment for Research and Test Reactors Argonne National Laboratory, IL., 1990 International meeting on reduced enrichment for research and test reactors, 1993 *Post-irradiation Examination Techniques for Research Reactor Fuels* IAEA, 2023-04-18 Post irradiation examination PIE is an indispensable step in the selection of new or improved research reactor fuel and in the characterization and understanding of its in core behaviour This publication provides an introduction to PIE techniques It describes a typical PIE process from intercycle inspections in the reactor pool or channel to hot cell PIE which is subdivided into non destructive and destructive testing techniques with their typical output advantages and drawbacks and their applicability to understanding fuel irradiation behaviour Much of the work presented in this publication originated from the research and development of new low enriched uranium research reactor fuels Intended readers include research reactor operators regulators and their technical support organizations fuel developers and manufacturers laboratory staff and policy makers *Reduced Enrichment for Research and Test Reactors* Peter von der Hardt, 1986 **Irradiation Testing of Miniature Fuel Plates for the RERTR Program. [Reduced Enrichment Research and Test Reactors].** , 1981 An irradiation test facility which provides a test bed for irradiating a variety of miniature fuel plates miniplates for the Reduced Enrichment Research and Test Reactors RERTR program has been placed into operation These tests screen various candidate fuel materials on their suitability for replacing the highly enriched uranium fuel materials currently used by the world's test and research reactors with a lower enrichment fuel material without significantly degrading reactor operating characteristics and power levels The use of low uranium enrichment of about 20% ²³⁵U in place of highly enriched fuel for these reactors would reduce the potential for ²³⁵U diversion The irradiation test facility designated as HFED is operating in core position E 7 in the Oak Ridge Research Reactor ORR a 30 MW water moderated reactor The miniplates will achieve burnups of up to approx 2.2×10^{27} fissions m³ of fuel **Dr - Hh** , *Reduced Enrichment for Research and Test Reactors* , 1991 **The RERTR (Reduced Enrichment Research and Test Reactor) Program** , 1987 The progress of the Reduced Enrichment Research and Test Reactor RERTR Program is described After a brief summary of the results which the RERTR Program in collaboration with its many international partners had achieved by the end of 1986 the activities results and new developments which occurred in 1987 are reviewed Irradiation of the second miniplate series concentrating on U₃Si₂ Al and U₃Si Al fuels was completed and postirradiation examinations were performed on many of its miniplates The whole core ORR demonstration with U₃Si₂ Al fuel at 4.8 g U cm³ was completed at the end of March with excellent results and with 29 elements estimated to have reached at least 40% average burnup Good progress was made in the area of LEU usage for the production of fission ⁹⁹Mo and in the coordination of safety evaluations related to LEU conversions of US university reactors Planned activities include testing and demonstrating advanced fuels intended to allow use of reduced enrichment uranium in very high performance reactors Two

candidate fuels are U3Si Al with 19 75% enrichment and U3Si2 Al with 45% enrichment Demonstration of these fuels will include irradiation of full size elements and possibly a full core demonstration Achievement of the final program goals is still projected for 1990 This progress could not have been possible without the close international cooperation which has existed from the beginning and which is essential to the ultimate success of the RERTR Program 1980 *Department of Energy Authorization* United States. Congress. House. Committee on Science and Technology,1979 Energy and Water Development Appropriations for 1997: Department of Energy fiscal year 1997 budget justifications United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,1996 *Congressional Record* United States. Congress,1991 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

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