

# REDUCED ENRICHMENT FOR RESEARCH AND TEST REACTORS

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# Reduced Enrichment For Research And Test Reactors

**Julia Schneider**



## **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/cm<sup>3</sup> 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      **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      **Proceedings of the 1978 International Meeting on Reduced Enrichment for Research and Test Reactors, Argonne, Illinois, November 9-10, 1978**, 1993      Reduced Enrichment for Research and Test Reactors, 1995      **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      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 *Reduced Enrichment for Research and Test Reactors*, 1991

**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

**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% <sup>235</sup>U in place of highly enriched fuel for these reactors would reduce the potential for <sup>235</sup>U 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  $2.2 \times 10^{27}$  fissions m<sup>3</sup> of fuel *Reduced Enrichment for Research and Test Reactors* Argonne National Laboratory, 1993

**Reduced Enrichment for Research and Test Reactors** Japanese Nuclear Data Committee, Nihon Genshiryoku Kenkyūjo. Nuclear Data Center, 1994

**Energy and Water Development Appropriations for 2000: Department of Energy, Environmental Management and Commercial Waste Management** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 1999

**106-1 Hearings: Energy And Water Development Appropriations For 2000, Part 6, March 16, 1999**, 1999 *Energy Research Abstracts*, 1995

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