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COMMUNITY
INFORMATION SERVICE
220 Southern Building, Washington 5, D.C.
telephone NAtional 8-5070

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U.S.-EURATOM R&D PROJECTS
AUTHORIZED

WASHINGTON, JULY 26 -- The U.S.-Euratom Joint Research and Development Board announced that a total of 45 proposals for research and development work amounting to approximately $7.8 million have been accepted for contract negotiation within the Community and within the United States, it was reported from Euratom headquarters in Brussels yesterday. Twenty-eight Community and ten United States organizations are represented by the work authorized, much of which involves close collaboration between Community and U.S. industrial groups. A list of the projects authorized by the Board is attached.

The Joint Research and Development program is aimed primarily at the improvement of the performance of the reactors to be constructed under the joint U.S.-Euratom reactor program, at the lowering of fuel cycle costs, and also deals with plutonium recycling and other problems relevant to these reactors. The interest of the Joint Research and Development Board to date has been in work related to the boiling water reactor concept and towards plutonium recycling. Emphasis has been placed on work in the areas of uranium and plutonium compounds, fuel development, improved zirconium alloys, and heat transfer studies.

The Board has essentially completed its review of the approximately three hundred (300) proposals which have been received through April 1, 1960, in response to its invitation for proposals of December 23, 1958. In the near future, the Board expects to make known specific areas of research which are of continuing interest to it and to invite additional proposals relating to boiling water reactors. Further announcements may be made from time to time as additional reactor projects are submitted under the joint reactor program.

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CONTRACTS AUTHORIZED BY UNITED STATES-EURATOM JOINT R&D BOARD

Project	Firm
Sintering in Air of Mixed Uranium and Thorium Oxides	Compagnie Industrielle des Combustibles Atomiques Frittes (CICAF), France
Improving Sintering of Uranium Oxide by Adding Oxides of Di, Tri and/or Pentavalent Metals with a View to Increasing Thermal Conductivity	Compagnie Générale de Télégraphie Sans Fil (CSF), France
Research on Uranium Oxide Extrusion	Compagnie Industrielle des Combustibles Atomiques Frittes (CICAF), France
Diffusion of Fission Gases in Reactor Materials	Hahn-Meitner Institut für Kernforschung, Berlin, Germany
Reprocessing of Irradiated Fuels Using Non-Aqueuous Methods	Centre d'Études de l'Énergie Nucléaire (CEN) in conjunction with the Société Belge de l'Azote et des Produits Chimiques du Marly and the Société d'Études, de Recherches et d'Applications à l'Industrie (SERAI), Belgium
Fundamental Research on Corrosion Using Electro-Chemical Methods	Centre Belge d'Étude de la Corrosion (CEBELCOR), Centre d'Études de l'Énergie Nucléaire (CEN) and the Société d'Études, de Recherches et d'Applications à l'Industrie (SERAI), Belgium
Fabrication by Swaging of Oxide, Oxide Mixture and Monocarbide of Uranium Based Fuel Elements	Nuklear-Chemie und Metallurgie, Germany
Longitudinal Deformations of Zirconium Alloys due to Temperature Variations	Metallgesellschaft, Germany
Stability of Certain Reactor Structural Materials	Metallgesellschaft, Germany
Zirconium Alloys Containing Mainly NB or SI with a View to their Utilization as Cladding Material in Water-Cooled Reactors	Metallgesellschaft, Germany
Obtaining of Uranium Oxide Pellets with the Addition of Beryllium Oxide and an Alkaline, Earth or Metal Oxide	Battelle Institut, Germany
Treatment of Radioactive Water and Waste	Centre d'Études de l'Énergie Nucléaire (CEN) in conjunction with Evence Coppée, Belgium
Fabrication of Uranium Carbide and Mixed Carbides and of Uranium Carbide Based Cermets	Nuklear-Chemie und Metallurgie, Germany
Sintered Uranium Oxide: Sintering Behaviour under Irradiation	Commissariat à l'Énergie Atomique (CEA), France
Uranium Swelling under Irradiation	Centre d'Études de l'Énergie Nucléaire (CEN), Belgium
Research on Vibrations and Pressure Losses in Tube Clusters	SOGREAH, France

Project	Firm
Research Program on Heat Transfer and Kinetics in Boiling Water Reactors	Technical University, Eindhoven, Netherlands
Improving Heat Transfer in Boiling Water Reactors	Société Nationale d'Étude et de Construction de Moteurs d'Aviation (SNECMA), France
Improving the Thermal Possibilities of Nuclear Fuels (vapotron)	Compagnie Française Thomson-Houston in Conjunction with Alsthom, France, and AEG, Germany
Preparation of Sintering Grade UO-2	Société Générale Métallurgique de Hoboken, Belgium
Wet Preparation of UO-2 Powders	Comitato Nazionale per le Ricerche Nucléari (CNRN), in conjunction with Fiat, Italy
Formation of Zirconium Hydride in Zircalloy-2 and ZR-NB Alloys	Siemens, Germany
Reactor Physics	Fiat, in conjunction with the Comitato Nazionale per le Ricerche Nucléari, Italy
Preparation and Irradiation of Uranium - Uranium Carbide and Stoichiometric Uranium Carbide Cermets	French Atomic Energy Commission
Application of Transient Electro-Chemical Methods to the Chemical Analysis of Products Relating to Nuclear Chemistry	Brussels Free University, Belgium
Flux Measurements of Fast Neutrons by Means of New Detectors	Nuclear Energy Study Center (CEN), Belgium
Sintering of Uranium Oxide in Water Steam	Fiat, Italy, in collaboration with Westinghouse, USA
Swaging of UO-2 Fuel Elements	Fiat, Italy, in collaboration with Westinghouse, USA
Fission Gas Release of UO-2	Fiat, Italy, in collaboration with Westinghouse, USA
Study of Water-Steam Mixtures as Heat Transfer Liquids and the Possibilities of Using These Mixtures in Water-Moderated Reactors	Centro Informazioni Studi Esperienze (CISE) in collaboration with Ansaldo, Italy, and Nuclear Development of America
Study of Sinterability and Industrial Sintering of Uranium Oxide	Nuclear Metallurgy and Mechanics (MMN), Belgium, in collaboration with Westinghouse, USA
Determination of the Hot Channel Factor by the Statistical Method	Fiat, Italy, in collaboration with Westinghouse, USA
Use of Plutonium Fuel in Nuclear Reactors	Association Belgonucléaire-CEN, Belgium, and APDA, USA

USA CONTRACTS

Project	Firm
Fission Gas Diffusion in Uranium Oxide and Cladding Materials	Radiation Applications, USA
Development of New Zirconium Alloys	Armour Research Foundation, USA
Study of Limit Performances of Uranium Oxide Fuel Elements in a Reactor	General Electric Company, USA
Phase Diagram Study of the Uranium - Carbon - Oxygen System	North Carolina State College, USA
Development of Ceramic Fuel Element Plates Obtained by Spray-Coating	American Standard Corporation, USA
Research on Heat Transfer and Bubble Co-efficient in Boiling Water Reactors	Battelle Memorial Institute, USA
Development of Uranium Nitride as Fuel for Reactors Using Slightly Enriched Uranium	Battelle Memorial Institute, USA
Investigation into the Possibility of Producing Zircalloy-2 Tubes by Cold Extrusion	American Standard Corporation, USA
Experimental Study of the Effect of Ultrasonic Vibrations on Burnout in Boiling Water	American Standard Corporation, USA
Study on Plutonium Recycling in Light-Water-Moderated Reactors	General Electric Company, USA
Determination of the Integral of Resonance of U-238	Babcock and Wilcox Company, USA, in conjunction with Indatom, France
Development of UO-2-Based Fuels	Babcock and Wilcox, USA, in conjunction with Indatom, France

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