

research reactor aluminum spent pdf

PDF | This paper gives an overview of activities carried out at IPEN, Brazil, in the IAEA-sponsored Coordinated Research Project (CRP) "Corrosion of Research Reactor Al-clad Spent Fuel in Water ...

(PDF) Corrosion of Research Reactor Aluminum Clad Spent

In 1995, the Office of Spent Fuel Management of DOE established a team of experts (the Research Reactor Spent Nuclear Fuel Task Team, hereafter referred to simply as the "Task Team") to help develop a technical strategy for treatment of aluminum spent fuel to put it into "road ready" form for disposal at a repository.

2. Treatment Options for Aluminum Spent Nuclear Fuel

A large variety of research reactor spent fuel with different fuel meats, different geometries and different enrichments in ²³⁵U are presently stored underwater in basins located around the world. More than 90% of these fuels are clad in aluminium or aluminium based alloys that are notoriously susceptible to corrosion in water of less than optimum quality. Some fuel is stored in the reactor ...

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corrosion coupons in the spent fuel pools of the participating research reactor laboratories and the evaluation of the coupons after predetermined exposure times, along with periodic monitoring of the storage water.

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Corrosion of Research Reactor Aluminum Clad Spent Fuel in Wet Storage Lalgudi V. Ramanathan Instituto de Pesquisas Energéticas e Nucleares "IPEN- CNEN/SP

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296 1 Introduction Concerns related to corrosion of Al-clad spent research reactor (RR) fuel stored for long periods in light-water filled pools around the world led to the

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(CRP) on "Corrosion of Research Reactor Aluminum-Clad Spent Fuel in Water.[1,2] The objectives of the CRP were to: (a) establish uniform practices for corrosion monitoring and surveillance, (b) provide a technical basis for continued wet storage of research reactor

Corrosion of Aluminium-clad Spent Research Reactor Fuel in

RESEARCH REACTOR ALUMINUM SPENT FUEL. Treatment Options for Disposal. MILTON LEVENSON, Principal Investigator, Menlo Park, California. KEVIN D. CROWLEY, Study Director. ANGELA R. TAYLOR, Senior Project Assistant. LATRICIA BAILEY, Project Assistant. Milton Levenson is a chemical engineer with more than 48 years of experience in nuclear energy and related fields. His technical experience ...

Front Matter | Research Reactor Aluminum Spent Fuel

research reactor spent nuclear fuel cannot be prepared to meet repository criteria once it is established. Even with reprocessing at SRS, the disposition of aluminum-clad spent fuel and/or spent

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aluminum cladding of Mk 22 assemblies in the K-Reactor basin and on the Mk 31A target slugs in L-Reactor basin as shown by Figures 1-2. Sampling and analysis of the corrosion products from the spent fuel cladding

Criteria for Corrosion Protection of Aluminum-Clad Spent

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aluminum clad SNF from research reactors within the United States (USRR), from foreign research reactors (FRR), and for interim dry storage of Savannah River Site (SRS) spent fuel if needed.

Materials Issues in Interim Storage and Direct Disposal Of

Effects of corrosion of aluminum alloys of nuclear purity in ordinary water of the spent fuel storage pool of the RA research reactor at VINĂCEA Institute of Nuclear Sciences has been examined in the frame work of the International Atomic Energy Agency Coordinated Research Project "Corrosion of Research Reactor Aluminum-Clad Spent Fuel in Water" since 2002. The study presented in this paper ...

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