

major parts of the system design have been completed [3]. A pre-application review by the US NRC has been initiated in the fall of 2007, and a formal licensing application is scheduled for 2010. Different from it, both the SSTAR and STAR-LM are at a pre-conceptual stage. It should be noted that small size and capacity of the fast reactors considered in [3] are, first-of-all, conditioned by the requirement of operation without on-site refuelling [2] and not by the a priori considerations of achieving a somewhat higher degree of passive response in accidents.



FIG. 2. General view of the SSTAR layout.

Design features of the 4S-LMR and the SSTAR and the STAR-LM contributing to Level 1 of defence in depth, "Prevention of abnormal operation and failure", are summarized in Table 1.

TABLE 1. DESIGN FEATURES OF SODIUM COOLED AND LEAD COOLED FAST SMRS CONTRIBUTING TO LEVEL 1 OF DEFENCE IN DEPTH

#	DESIGN FEATURE	WHAT IS ACHIEVED	SMR DESIGN
1	Low-pressure primary coolant system	Low non-nuclear energy stored in the primary coolant system – elimination of a potential of release of this energy	4S-LMR, SSTAR, STAR-LM
2	Use of metallic fuel with high thermal conductivity (relatively low temperatures)	High margin to fuel failure	4S-LMR
3	Use of oxide fuel with high thermal conductivity (relatively low temperatures)	High margin to fuel failure	SSTAR, STAR-LM
4	Relatively low linear heat rate of fuel	Higher margin to fuel failure	4S-LMR
5	Power control via pump flow rate in the power circuit, with no control rods in the core	Elimination of an accident with control rod ejection	4S-LMR
6	Large negative feedbacks from fast-spectrum core plus natural convection of the coolant in all modes, enabling passive load following and "passive shutdown"	Essential prevention or de-rating of the initiating events resulting from malfunctioning of the systems or components, or operator actions that would otherwise need to be considered as sources of failure	SSTAR, STAR-LM

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**Reactor Physics Constants Center
(U.S.)**



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Handbook of Small Modular Nuclear Reactors Daniel T. Ingersoll, Mario D. Carelli, 2014-09-22 Small modular reactors SMRs are an advanced safe type of nuclear reactor technology that are suitable for small and medium sized applications including both power and heat generation In particular their use as individual units or in combination to scale up capacity offer benefits in terms of siting installation operation lifecycle and economics in comparison to the development of larger nuclear plant for centralised electricity power grids Interest has increased in the research and development of SMRs for both developing countries as well as such additional cogeneration options as industrial chemical process heat desalination and district heating and hydrogen production This book reviews key issues in their development as well as international R D in the field Gives an overview of small modular reactor technology Reviews the design characteristics of integral pressurized water reactors and focuses on reactor core and fuel technologies key reactor system components instrumentation and control human system interfaces and safety Considers the economics financing licensing construction methods and hybrid energy systems of small modular reactors Describes SMR development activities worldwide and concludes with a discussion of how SMR deployment can contribute to the growth of developing countries **U.S. Power Reactors** ,1964 **Advanced**

Nuclear Systems Consuming Excess Plutonium E.R. Merz, Carl E. Walter, 2012-12-06 A survey of recent developments in the field of plutonium disposal by the application of advanced nuclear systems both critical and subcritical Current national R D plans are summarized The actinide fuelled critical reactors are associated with control problems since they tend to have a small delayed neutron fraction coupled with a small Doppler effect and a positive void coefficient Current thinking is turning to accelerator driven subcritical systems for the transmutation of actinides The book s conclusion is that the various systems proposed are technically feasible even though not yet technically mature The book presents a unique summary and evaluation of all relevant possibilities for burning surplus plutonium presented by experts from a variety of different disciplines and interests including the defence establishment The obvious issue the non proliferation of nuclear weapons is vital but the matter represents a complex technological challenge that also requires an assessment in economic terms

Proceedings: Small and medium power reactors; desalination and agroindustrial complexes; role of research reactors; impact of nuclear energy in developing countries ,1958 **Women in Power** Jill S. Tietjen, Marija D. Ilic, Lina Bertling Tjernberg, Noel N. Schulz, 2023-07-18 This enlightening volume examines core areas of development in electric power systems emphasizing the pivotal contributions of women engineers to the industry s evolution The authors cover a broad spectrum of key topics including generation technologies transmission and distribution progress environmental challenges worldwide electrification and workforce issues Advances in conventional and renewable energy technologies in parallel with growing environmental concerns and in conjunction with the aging of both the infrastructure itself and the workforce have led to imposing and fascinating challenges for the engineers of tomorrow This book documents the critical role of women

engineers and their pioneering discoveries relates their stories of success and struggle in their own words and shares their perspectives on how these challenges will be addressed in the decades ahead Journal of the British Nuclear Energy Society British Nuclear Energy Society,1963 Modular High-temperature Gas-cooled Reactor Power Plant Kurt Kugeler,Zuoyi Zhang,2018-10-05 Modular High temperature Gas cooled Reactor Power Plant introduces the power plants driven by modular high temperature gas cooled reactors HTR which are characterized by their inherent safety features and high output temperatures HTRs have the potential to be adopted near demand side to supply both electricity and process heat directly replacing conventional fossil fuels The world is confronted with two dilemmas in the energy sector namely climate change and energy supply security HTRs have the potential to significantly alleviate these concerns This book will provide readers with a thorough understanding of HTRs their history principles and fields of application The book is intended for researchers and engineers involved with nuclear engineering and energy technology Fuel Abstracts and Current Titles ,1962 *Research and Development Progress Report* United States. Office of Saline Water,1970 **TID.** ,1964 **Directory of Published Proceedings** ,1971 **Energy** ,1983 **Sauerstoff** Anthony A. Delyannis,Eurydike A. Delyannis,2013-11-11 Processes for recovering fresh water from the oceans of which men have dreamed since antiquity have changed markedly in the last 20 years In fact it has become possible so to increase the productivity of the technical steps involved that the cost of production of such water is almost three orders of magnitude smaller than for other large volume industrial products However the monographs and comprehensive reviews which have appeared to date in this field have been prepared by specialists for specialists In accordance with the tradition and objectives of the Gmelin Handbook this bibliography has been prepared to provide access to all of the ways in which fresh water can be and has been obtained on an industrial scale from the ocean Production of fresh water from sea and brackish waters amounts to almost two million cubic meters per day and this is increasing by about 25% per year This means that it will increase nearly tenfold in 10 years Reactor Physics Constants Reactor Physics Constants Center (U.S.),1963 **Scientific and Technical Aerospace Reports** ,1983 **Journal** British Nuclear Energy Society,1963 **Energy: a Continuing Bibliography with Indexes** ,1983 Energy Research Abstracts ,1993 *Nuclear Science Abstracts* ,1976-06 **Peaceful Uses of Atomic Energy** ,1972

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