

The HTR-10 Reactor and HTGR Development in China

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Abstract

The presentation will give an overview of the HTGR development program in China, focusing on the HTR-10 reactor project currently being executed. The HTR-10 is a 10MWt test reactor with pebble fuel elements. The technical features of this test reactor represent those of modular high temperature gas-cooled designs. The test reactor reached its initial criticality in December 2000. The key milestones and current status of the project will be shown, including the status of fabrication and irradiation of spherical fuel elements based on coated fuel particles. Future HTGR research and development framework within national programs for the tenth five-year plan has been worked out and will be briefly addressed.