

History of Liquid Metal Reactors in the United States

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Today, U.S. commercial nuclear power reactors are based on a design known as the light-water reactor (LWR). In this design, uranium oxide-based nuclear fuel is used once and then prepared for disposal. Although not commercialized in this country, other reactor designs continue to be explored and developed. One such design is a liquid metal reactor (LMR). This design uses metal fuel that is reprocessed after each use cycle and then fed back into the reactor as new fuel. Reprocessing is a chemical and physical process whereby new fuel is separated from the waste products. The LMR reactor was originally developed as a "breeder reactor" to produce excess plutonium during its operation. Breeder operation implies that the reactor and fuel reprocessing system can produce more nuclear fuel than the reactor consumes.

The liquid metal reactor concept has been under development in the United States since the 1950s. The first nuclear reactor ever to produce electricity, the experimental breeder reactor (EBR-I) at Argonne West in Idaho that began operation in 1951, was such a system (3, 15). The Clinch River Breeder Demonstration reactor was an LMR breeder design intended to demonstrate the concept on a large scale. It was designed to use a nuclear fuel reprocessing technology known as PUREX¹ for converting its spent fuel into new nuclear fuel. The Clinch River project was terminated by Congress in 1983 because of concerns about its risks in terms of



¹ The PUREX process was originally developed in the 1940s to separate plutonium for weapons production. The process in which spent fuel is dissolved, and plutonium and other materials are separated from wastes, can also be used to produce plutonium for nuclear fuel.

Technical Options For The Advanced Liquid Metal Reactor

Victor M. Corman

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