



NRC NEWS

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NRC Makes Available Partial Atomic Alchemy Construction Permit Application

The Nuclear Regulatory Commission has received the first portion of a construction permit application from Atomic Alchemy Inc. requesting permission to build four reactors for a facility to produce radioisotopes. The facility will be located at the Idaho National Laboratory near Idaho Falls, Idaho. The submission is now available for public inspection on the NRC [website](#).

On September 12, Atomic Alchemy submitted a preliminary safety analysis report for the facility, which would include up to four non-power reactors that would produce radioisotopes. The Versatile Isotope Production Reactor design is comparable to existing research reactors that operate in a pool of water. Each VIPR in the facility would generate approximately 15 megawatts of heat while producing a range of isotopes for use in several industries. Atomic Alchemy expects to submit the environmental portion of its application in the next few months. The company will have to submit separate operating license applications in the future.

The NRC staff is reviewing the application to determine if it is complete and acceptable for processing. If the application is determined to be sufficient, the staff will docket it and start a detailed technical review. The NRC will then publish a notice of opportunity to request an adjudicatory hearing on the application before the NRC's Atomic Safety and Licensing Board.

Information about the NRC's interactions with Atomic Alchemy regarding its VIPR design is available on the NRC [website](#).

The U.S. Nuclear Regulatory Commission was created as an expert, technical agency to protect public health, safety, and security, and regulate the civilian use of nuclear materials, including enabling the deployment of nuclear power for the benefit of society. Among other responsibilities, the agency issues licenses, conducts inspections, initiates and enforces regulations, and plans for incident response. The global gold standard for nuclear regulation, the NRC is collaborating with interagency partners to implement reforms outlined in new Executive Orders and the ADVANCE Act to streamline agency activities and enhance efficiency.