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Fast neutron reactors have a high power density and are normally cooled by liquid metal such as sodium, lead, or lead-bismuth, with high conductivity and boiling point and no moderating effect. They operate at around 500-550°C at or near atmospheric pressure.
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lead-cooled fast reactor* (LFR) technology. The delivery of commercially competitive, reliable, zero-emission clean and sustainable energy, with unparalleled safety and flexible operations*, are Westinghouse’s key goals.
Background
With the objective of commercializing an advanced reactor technology, Westinghouse has
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In practice, all liquid metal cooled reactors are fast-neutron reactors, and to date most fast neutron reactors have been liquid metal cooled fast breeder reactors (), or naval propulsion units.
The liquid metals used typically need good heat transfer characteristics.
Fast neutron reactor cores tend to generate a lot of heat in a small space when compared to reactors of other classes.
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Siberian Chemical Combine has awarded a RUB26.3 billion (USD412 million) contract to Titan-2 for the construction and installation works for the BREST-OD-300 lead-cooled fast neutron reactor facility at its site in Seversk, Russia. SCC is a subsidiary of TVEL, the nuclear fuel manufacturing subsidiary of Russian state nuclear corporation Rosatom.
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The SVBR is modular lead-bismuth-cooled fast neutron reactor from Gidropress. Rosatom set up joint stock company AKME-Engineering in 2009 to develop and commercialize the SVBR-100. The reactor, to be built in Dimitrovgrad in Russia’s Ulyanovsk region, is expected to enter pilot operation in 2017 or 2018.
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