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Submitter Information

Name: Alexander Parkhurst
Address:
PO Box 2018
Whitefish, MT, 59937
Email: mtloans@centurytel.net

General Comment

The NRC has a responsibility to the citizens of the United States to encourage, fund and test a Thorium Molten Salt Reactor. Is there a person at the NRC who has the technical experience, critical thinking skills and a future oriented policy
mindset to bring this technology forward? If not then could the NRC/DOE please hire someone or farm it out to Kirk Sorensen at FLIBE.

It is well known in the community that the DOE is helping the Chinese with MSR technology invented in the US. Since MSR technology was started in the US why are we giving this IP and technology to the Chinese? This makes absolutely no sense whatsoever.

I am not in the nuclear business, just a citizen seeing a great technology buried for no reason at all.

Attachments

Flibe Energy

Flibe Energy

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Flibe Energy

Our mission is to supply the world with affordable and sustainable energy, fresh water, and fuels.

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Contact Information

Flibe Energy, Inc.
PO Box 5952
Huntsville, Alabama
USA 35814

info@flibe-energy.com
256-617-7258

Our Technology and Vision

Flibe Energy is developing liquid-fluoride thorium reactor (LFTR) technology to access the energies of the element thorium, Earth's most abundant energy-dense natural resource. Fission of one atom of nuclear fuel releases over one-million-times more energy than burning of any hydrocarbon or other fuel molecule. With LFTR technology, 6,600 tons of thorium could provide the energy equivalent of the annual global consumption of 5 billion tons of coal, 31 billion barrels of oil, 3 trillion cubic meters of natural gas, and 65,000 tons of uranium.

The key to efficient, safe and sustainable use of thorium is liquid fuel, particularly, including a combination of lithium fluoride (LiF) and beryllium fluoride (BeF2) salts often called "F-Li-Be." Liquid FLiBe is ideal for nuclear reactor operation and chemical processing as it is unaffected by neutrons or radiation and is chemically stable. FLiBe salts have tremendous heat capacity with over 1000 degrees of liquid range to transfer large amounts of thermal energy at low pressures, enabling more efficient electricity generation with a more-compact and safer form of nuclear reactor.

LFTR technology is scalable from small 10-50 megawatt reactors that could be used in remote locations up to utility-scale 250 megawatt reactors that could be arrayed for multi-gigawatt installations. With LFTR, the thorium fuel cycle can generate significantly less mining waste and many orders of magnitude less long-term byproduct waste than conventional solid-uranium-fueled energy generation.

LFTR is based on demonstrated technologies with sound operational fundamentals proven by 20,000 hours of molten salt reactor operation. LFTR operates at low pressure—offering greater safety, and at high temperature—offering greater efficiency, with greatly reduced environmental impact relative to conventional reactors.

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