

NRC-2012-0246
 PR-51 Waste Confidence
 (Comment 00937)*

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PUBLIC SUBMISSION

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Docket: NRC-2012-0246

Consideration of Environmental Impacts on Temporary Storage of Spent Fuel After Cessation of Reactor Operation

Comment On: NRC-2012-0246-0456

Waste Confidence - Continued Storage of Spent Nuclear Fuel; Extension of Comment Period

Document: NRC-2012-0246-DRAFT-1176

Comment on FR Doc # 2013-26726

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General Comment

First Dry Cast all available waste then:

The United States can solve all its problems of waste by going to "Thorium is a natural occurring element found on earth, the moon, mars... essentially everywhere. It is a slightly radioactive metal and is about four times more abundant on Earth than uranium. Because of its fertility, it can be used as fuel in a nuclear power plant.

Why is thorium important if we already have uranium-fueled nuclear power plants? A thorium-fueled nuclear reactor generates hundreds of times the power of a uranium or coal power plant but produces essentially no waste. A thorium power plant would produce much less than 1% of the waste that a uranium plant of equal magnitude produces and, of course, would produce no carbon dioxide. More importantly, while the waste of a uranium power plant is toxic for over 10,000 years, the little waste that is produced in a thorium plant is benign in under 200 years. Even more impressive, the thorium power plant can be used to burn our current stockpile of nuclear waste. And yet, the benefits continue. The thorium power plant cannot "melt down", thorium cannot practically be used to make nuclear weapons, there is enough thorium in the United States alone to power the country at its current energy level for over 10,000 years, and the thorium power plant can be designed to be a plug and play module that could tap right in at the source of a current coal or uranium plant so there would be no need for laying a new grid.

Now, although it sounds like science fiction, the potential of thorium power has already been witnessed. Studies and experiments were conducted from the 1950's until the 70's. Almost 20,000 hours of operation and the true value of thorium was proven as a superlative energy source in the molten-salt reactor experiment (MSRE) between 1964-1975. With all that said, we hear the same question from everyone who hears about thorium for

the first time. "It almost sounds too good to be true, why isn't it already in use today?" Surf on if you are one of these people. You'll find that there isn't a good reason." <http://www.thoriumenergyalliance.com/>

Attachments

co2_emissions_electricity_usage_chart

Bond, Bayh introduce rare earth legislation - St. Louis Business Journal

usa_thorium_map

Radiation_Dose_Chart

Thorium-fueled MSR

American_Scientist_Hargraves

Congressional_letter_LFTR

Concepts & Prototypes- Two Next- Gen Nukes

Could the Clean Energy We Need Be Right Under Our Feet? Read More <http://www.gq.com/blogs/the-q/2010/02/could-the-clean-energy-we-need-be-right-under-our-feet>

Green_for_Profit Corruption has destroyed America's mainstream environmental groups

Is a Thorium reactor the answer?

Liquid Fluoride molten-salt Thermal-neutron Reactor

Molten Salt Reactor (MSR) Basics

MSR_RARE_EARTH_TURBINE_POWER_PLANT

New Power Source For Nuclear Plants In The Wings

NRC_regulation_changes NUCLEAR REGULATORY COMMISSION 10 CFR Parts 30, 40, 70, 170, and 171
RIN 3150-AH15 [NRC-2009-0084]

Nuclear Regulatory Commission Seeks Public Comment On Proposed Changes To Regulations On Distribution Of Uranium And Thorium

Price is right for better nuclear fuel

CivilianNuclearPower

Molten salt reactors- A new beginning for an old idea

Revive R&D in thorium, says India

Pu-238 can be made in thorium reactors...in isolation

Saudi Arabia, China Sign Nuclear Cooperation Pact

The Future of Nuclear Power after Fukushima Thorium Reactors

Safe nuclear does exist, and China is leading the way with thorium

Thor-Facts_pdf

Russia, India to develop new- generation nuclear reactors

THORIUM A lifetime of power in the palm of your hand

Thorium Cycle Hype

Thorium_reactors_New_Scientist

UK Parliament Group to Study Thorium Reactors

U.S. partners with China on new nuclear

Uranium Wastes versus Thorium Solution

Uranium Is So Last Century - Enter Thorium, the New Green Nuke