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on Diablo Canyon

Additional submitted attachment is included below.

From: [Mercury gold](#)
To: [Energy - Docket Optical System](#)
Subject: Fwd: Diablo canyon "21-ESR-1"
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DOCKET 21-ESR-1

From: Mercury gold <e196197198@gmail.com>
Date: August 12, 2022 at 12:38:25 PM MDT
To: info@mothersfornuclear.org
Cc: BinghamLyle <lyle.bingham@gmail.com>
Subject: Diablo canyon

My actual name is Robert Bennion. I am an inventor with several patents including recently a small nuclear reactor that can even run on materials from retired nuclear fuel rods that are now falsely designated as nuclear waste. The Chinese had two nuclear reactors built by the Canadian company that built CANDU reactors and they can even operate on unprocessed but repackaged retired fuel rods from the standard almost universal light water reactors, and the Chinese have been testing this process.

There is a false belief spread by opponents of nuclear energy including many involved in the production of petroleum products including natural gas to protect their profits and that is "no amount of nuclear radiation is safe" If this were true the entire airline industry should be shut down by anti-nuclear power groups because high altitude flying exposes more people to more radioactivity than any other activity including medical x-rays or other radioactive procedures. All Californians should move to Death Valley or the Salton Sea area to avoid the additional levels of cosmic radiation received even on the sea coast. Or better move to the shores of the Dead Sea in Middle East.

Most people do not even know that all humans are radioactive and always have had built in radioactivity. A hundred and fifty pound human has about 4000 potassium atoms exploding in them every second. Every plant especially and other food products have built in radioactivity. Pure sugar and drinking alcohol have the least radioactivity because they have no potassium in them but non radioactive alcohol cannot be sold because it is made at petroleum refineries and not from grain or fruit all of which have radioactive carbon 14 in them. Look up potassium 40 in Wikipedia.

Politicians climbed onto the anti nuclear bandwagon just to make sure that they would be re-elected, and the best example of this is Angela Merkel who turned against nuclear power after Fukushima meltdowns during her election. Now many Russians soldiers equipped and paid by German money for Russian natural gas are killing Ukrainians. Far more Ukrainians have been killed by Russia than were killed by the man made explosion experiment at Chernobyl which were less than

two hundred.

Natural gas is not the answer to reducing carbon release because the hidden production and use of other hydrocarbons including the simple flaring of inconveniently present natural gas outweighs any carbon release savings at point of use of natural gas.

California never did have much coal and even steam locomotives in California burned oil. California imports oil from many nations of the world and the entire production of electricity by wind or solar would not reduce the carbon release of Californians to the air substantially.

We must also consider the hidden carbon release of Americans including Californians; the purchase and use by importing of products made outside the boundaries. At one time China was completing the construction of a coal fired power plant every week to support its manufacturing and sale of export goods. An entire steel mill was relocated from California to China as was its twin from Utah.

Reactor melt downs as in Three Mile Island and Fukushima are not caused by fission but only by the destruction of the zirconium of the fuel rod cladding by high temperature steam when cooling pumps or systems fail too soon after reactor fission shut off. The California Company Capstone Green Energy could have been asked to supply turbines mounted on the Fukushima reactor building roofs to supply sufficient power above the Tsunami flood to supply all of the power needed to cool the reactors until they were cooled enough to prevent the chemical reaction with Zirconium. One of the reactors shut down prior to the tsunami survived. Having emergency power supplied in triplicate could have saved Fukushima and Chernobyl and the earth billions of tons of carbon release.

Several cities and many people believe that hydro electricity has no carbon release impacts. Some have pointed out that rotting organics in water release organic carbon into air, but ignore the major loss of plants that cannot grow on the soils covered now by the water. California imports much hydroelectricity supplied even from rainfall in Canada or Colorado.

David Poston, formerly of Los Alamos Laboratory, is interested in making a reactor that can supply electricity for Mars colonies, and with careful computer design combined with his own thinking has built and tested a nuclear fission reactor that requires no operators and no computers and can run for many years without any attention. Some companies even a company in Ogden Utah, Qnergy, have built an electric generator that has no wearing parts and can operate unattended for years. The generator does have external electronic controls. David Poston borrowed several such machines that NASA has been testing for many years and generated electricity with his reactor and the reactor would supply the amount of heat needed to generate the electricity demanded without external control. The reactor and generator are a combined unit and can be lifted by a strong person before operation. It requires much shielding during operation and for a while afterwards. There is no chance of a meltdown as there is no water and zirconium.

The China Syndrome is entirely false. Any commercially built reactor needs exact placement of fuel rods and water to operate a fission chain reaction. No Water No Fission chain.

General Atomics, a California company even has a contract to provide replacement materials that will prevent reactor meltdowns and even has a partial solution for sale. CANDU heavy water reactors have so much water in them that it is far more unlikely to experience anything similar to a light water reactor meltdown. California has a coal burning power plant in Utah and it should be replaced by a CANDU reactor.

Helen Keller wrote "Security is a superstition, by and large the children of men do not experience security." Last Sunday I saw a picture of a slum in Kenya. Not a bit of security in sight. Superstition not visible.

40,000 people in USA killed in Automobile accidents a year, and same by guns, and same by Drug overdose. Nuclear reactors dangerous???

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