Gallagher, Carol

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From: Rudy Stefenel <rudystefenel@yahoo.com>
Sent: Monday, February 29, 2016 8:08 PM
To: Gallagher, Carol
Subject: [External_Sender] Indian Point Nuclear Generating Unit Nos. 2 and 3

12/29/2015
80 FR 81377

Dear Carol Gallagher,

Keeping Indian Point Nuclear Generating Unit Nos. 2 and 3 working and on-line is critically important. We need them for fighting pollution and climate change. The wind does not blow all the time and the sun does not shine all the time. So wind and solar guarantee we burn fossil fuels most of the time. Stick with me and I will get to what will work.

"Wind turbines generate electrical energy when they are not shut down for maintenance, repair, or tours and the wind is between about 8 and 55 mph. Below a wind speed of around 30 mph, however, the amount of energy generated is very small. Wind turbines produce at or above their average rate around 40% of the time. Conversely, they produce little or no power around 60% of the time." Please see:

http://TinyURL.com/WindWatch

Both wind and solar need to be backed up by other kinds of power plants. That backup is primarily coal, natural gas and biomass, which worsens Climate Change. In addition, new statistics show that windmills, in the U. S. alone, are killing a million birds and a million bats every year – and insect-borne diseases are on the rise! A good web related web site is:

http://TinyURL.com/WindTricks

To be environmentally correct, we should be promoting super-safe, CO2-free, 90% efficient, 24/7 nuclear power. France, which is about 75 % nuclear, provides a shining example, producing far less CO2 per person than any other nation! France set these records with traditional nuclear plants, but today's Generation IV plants are even safer and more efficient. One of these new plants is the Molten Salt Reactor - MSR. Here is how MSRs compare to the reactors we have been using for 40-50 years. Unlike conventional reactors, MSRs

- are "walk away" safe: Automatically shut down if needed without human input.
- don't make hydrogen, so they can't explode.
- can consume about 90% of the stored waste created by conventional reactors.
- can't melt down because the fuel is supposed to be molten.
- don't need water cooling, so they can be built anywhere.
- are more efficient because they run much hotter.
- are better suited to desalinate water.
- don't need a huge, costly containment dome because they operate at normal air pressure.
- can be powered by super-abundant, highly efficient thorium. (A proof of concept MSR successfully ran at Oak Ridge National Labs for 22,000 hours during the 1960s.)

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Let's eliminate subsidies for fossil fuels burners and massive wind and massive solar "farms" and increase the build rate for Generation-IV nuclear plants, especially MSRs.

There are remote areas where wind power and solar power make sense, but on a massive national scale, they don't because their inefficiency requires back up by power plants that burn more carbon.

For the negatives about wind and solar, and the reasons to promote CO2-free, safe Generation IV nuclear power, especially MSRs, please investigate the Thorium Energy Alliance at: http:/TinyURL.com/ThEnergyA

Please also watch this YouTube video by Robert Hargraves, the author of *THORIUM: Energy Cheaper than Coal,* (available at Amazon books) which compares all the energy sources and promotes MSRs:

http://TinyURL.com/ThCheaper

Also see George Erickson's web site which covers energy and environmental topics in depth and supports nuclear power:

http://TinyURL.com/EnergyReality

The ball is in your court, and I hope that you will get everyone at the U.S. Nuclear Regulatory Commission on board. We must stop burning fossil fuels, especially coal. We must use what really will work – and that is nuclear power. Nothing else will address pollution and climate-change as effectively. Many organizations are already doing the engineering for MSRs..

Again, let's keep as many existing nuclear power plants on line as long as we can while building the newer Generation IV kind for the sake of addressing pollution and climate-change. Burning fossil fuels is killing more than 5 million people per year world wide. See:
http://TinyURL.com/SmogKills5-5

Sincerely,

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