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**Re: Email 12/26/2023**

**To:** "Division, Criminal (CRM)" <Criminal.Division@usdoj.gov>, civil.feedback@usdoj.gov

I want to build a model of the earth's systems and what I think is called the biosphere. I don't know much about biology, other than sociobiology. I want to build a model that includes all of the species that are impacted by the climate and other human affected earth systems.

The purpose is to be able to calculate outcomes of solar engineering. The earth has many interconnected systems, and part of the objection to solar engineering is that it can create unexpected and potentially catastrophic changes. These things like droughts, extreme cold, and other things that affect agricultural output. Then there may be other unexpected consequences. I want my model to capture it all.

Screwing with the climate has all kinds of effects that the typical person would never expect. AGW is causing trees to die in certain areas, because it doesn't get cold enough to run off or kill a certain species of beetle in the winter. The Beetles feed off of the tree bark year round and the trees can't survive it. I think I'm remembering this right.

These trees will 1) no longer absorb CO<sub>2</sub>; and 2) eventually release CO<sub>2</sub> into the atmosphere. Probably a fire hazard too. But this is a feedback loop among a bazillion feedback loops that are possible. It's a small one, but I want a model that captures it all.

I also want to model a societal transformation at a global scale, the type that would be required to effectively address climate change through a reduction of emissions.

I like the technology route a whole lot better.

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Warmest Regards,

Clint Williams

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