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Diablo Canyon Power Plant

Additional submitted attachment is included below.

From: Paul Lindsey

To: Energy - Docket Optical System

Subject: 21-ESR-01 Diablo Canyon Power Plant

Date: Friday, August 12, 2022 10:29:38 AM

Attachments: CAISO Wind and Solar 2021 cf.pdf

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I am a retired US Navy nuclear-propulsion officer with a MS in Mechanical Engineering. In the Navy, I supervised the operation and maintenance of the largest naval nuclear reactors installed on Nimitz-class aircraft carriers.

I strongly urge the California Energy Commision to fully support the continued operation of Diablo Canyon Nuclear Power Plant for as long as the NRC says that it is safe to do so. This power plant generates over 2,000MW of safe, carbon-free electricity that is unaffected by weather, hours of daylight, or the supply and cost of natural gas. In comparison, I have attached a file showing the capacity factors of wind and solar generation facilities supplying CAISO. These charts were created using publicly available CAISO 5-minute increment data. The wind power chart shows the inherent unreliability of wind power, requiring backup sources, typically natural-gas turbines or diesel generators. The solar chart shows that while solar is more predictable, it still produces less than 10% of the rated capacity 55% of the year. Nuclear power has neither of these limitations, and has been shown to be a reliable source of electricity when it is not constrained or shutdown for political reasons.

I attempted multiple times to submit this comment using the electronic submission form, but the form system failed.

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