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SUNSI Review
Complete
Template=ADM-013
E-RIDS=ADM-03
ADD: Getachew
Teffaye, Stacy Joseph
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As of: 9/19/23, 12:32 PM
Received: August 04, 2023
Status: Pending_Post
Tracking No. lkx-9j6e-xgfc
Comments Due: October 03, 2023
Submission Type: Web

Docket: NRC-2023-0027
NuScale Power, LLC

Comment (1)
Publication Date:
8/4/2023
Citation: 88 FR 51874

Comment On: NRC-2023-0027-0002
NuScale Power, LLC

Document: NRC-2023-0027-DRAFT-0001
Comment on FR Doc # 2023-16679

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General Comment

I am writing to express my support for the standard design approval application of the US460 Small Modular Reactor (SMR) design submitted by NuScale Power, LLC. I believe that SMRs are essential in fighting climate change and displacing fossil fuels, as they offer several benefits such as:

SMRs produce significantly lower carbon emissions compared to fossil fuel-based power plants, making them a major contributor to decarbonization efforts. According to the application, the US460 SMR design has a carbon footprint of 0.02 kg CO₂/kWh, which is comparable to wind and solar power.

SMRs have a minimal environmental footprint and can be deployed in remote areas where renewable energy sources such as wind and solar are not feasible. The US460 SMR design has a compact size of 76 feet in height and 15 feet in diameter, and can be transported by truck, rail or barge.

SMRs can provide the energy needed to generate hydrogen, which is a clean fuel for transportation and industry. The US460 SMR design can produce up to 50,000 kg of hydrogen per day using high-temperature steam electrolysis, which is more efficient than conventional methods.

I urge the NRC to approve the US460 SMR design as soon as possible, as it represents a promising technology that can help mitigate climate change and enhance energy security. The US460 SMR design has also demonstrated a high level of safety and reliability, as it features a passive cooling system, a simplified design, and a reduced number of components. The approval of the US460 SMR design will also support the innovation and competitiveness of the U.S. nuclear industry, as NuScale Power, LLC is the first U.S. company to submit an SDA application for an SMR design.

Michael Ravnitzky