



August 21, 2024

Docket No: 99902098

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Transmittal of GA-EMS Fast Modular Reactor Safety Approach and Probabilistic Risk Insights

General Atomics - Electromagnetic Systems (GA-EMS) is submitting to the Nuclear Regulatory Commission (NRC) the Fast Modular Reactor (FMR) Safety Approach and Probabilistic Risk Insights for pre-application license review. The white paper in Enclosure 1 contains no proprietary information.

This activity is in support of the DOE award for the cost-share agreement DE-NE0009052 under the Advanced Reactor Concepts – 20 (ARC-20) program. GA-EMS requests that the NRC perform their initial review and schedule determination of the white paper within 60 days of receipt of this letter. No specific feedback is requested on the Safety Approach and Probabilistic Risk Insights and the white paper is being provided to give the NRC staff familiarity with the FMR for future pre-application submittals. Additional interactions to clarify any questions from the NRC staff on the white paper is anticipated to take 3 months with an NRC staff effort of around 50 hours. A meeting between GA-EMS and NRC staff can be scheduled to address questions and feedback on this pre-application license submittal.

If you have any questions or need any additional information, please contact John Bolin by email at john.bolin@ga.com or by phone at 858-762-7576.

Sincerely,

A handwritten signature in black ink that reads "John Bolin".

John Bolin
Nuclear Technologies and Materials Division
General Atomics – Electromagnetic Systems

Enclosures:

1. "Fast Modular Reactor Safety Approach and Probabilistic Risk Insights," 30599T00041 Rev. 1, August 21, 2024 (Non-proprietary).

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