



June 3, 2022

Docket No: 99902098

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

Subject: Transmittal of GA-EMS Fast Modular Reactor Principal Design Criteria Topical Report

General Atomics - Electromagnetic Systems (GA-EMS) is submitting to the Nuclear Regulatory Commission (NRC) the Fast Modular Reactor (FMR) Principal Design Criteria Topical Report for pre-application license review.

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 review and provide feedback on the proposed set of Principal Design Criteria within 90 days of receipt of this letter. Additional interactions leading to a Safety Evaluation Report on the topical report is anticipated to take 6-12 months with an NRC staff effort of around 400 hours. A meeting between GA-EMS and NRC staff can be scheduled in the near future any early 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](mailto:john.bolin@ga.com) or by phone at 858-762-7576.

Sincerely,

A handwritten signature in black ink, appearing to read "John Bolin".

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

Enclosure: "Fast Modular Reactor Principal Design Criteria," 30599T00005 Rev. 1, May 31, 2022.

cc: [Samuel.CuadradoDeJesus@nrc.gov](mailto:Samuel.CuadradoDeJesus@nrc.gov)  
[William.Kennedy@nrc.gov](mailto:William.Kennedy@nrc.gov)