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Project No. 99902071

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

**Submittal of X Energy, LLC (X-energy) Xe-100 Licensing Topical Report Plume Exposure Pathway
Emergency Planning Zone Sizing Methodology**

The purpose of this letter is to submit the subject licensing topical report (LTR) to the U.S. Nuclear Regulatory Commission (NRC). This LTR describes the methodology to establish a design- and site-specific plume exposure pathway emergency planning zone size for Xe-100 reactor plants. It is provided for NRC review and approval as indicated in the report and is expected to be referenced in future licensing applications using the Xe-100 technology. The specific review schedule will be coordinated by X-energy and NRC project managers.

The subject LTR contains proprietary information. As such, X-energy requests that Enclosure 3 be withheld from public disclosure per 10 CFR 2.390, "Public inspections, exemptions, requests for withholding." Redacted information is identified using [[]]^P. An affidavit certifying the basis for the request to withhold Enclosure 3 from public disclosure is included as Enclosure 1. Proprietary information has been omitted from the LTR provided in Enclosure 2 that should be made publicly available.

This letter contains no commitments. If you have any questions or require additional information, please contact Jessica Maddocks at jmaddocks@x-energy.com.

Sincerely,

James Fogarty
Manager, Licensing (Acting)
X Energy, LLC

Enclosures:

- 1) Affidavit Supporting Request for Withholding from Public Disclosure (10 CFR 2.390)
- 2) "Xe-100 Licensing Topical Report Plume Exposure Pathway Emergency Planning Zone Sizing Methodology," Revision 1 (Public)
- 3) "Xe-100 Licensing Topical Report Plume Exposure Pathway Emergency Planning Zone Sizing Methodology," Revision 1 (Non-Public)



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