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30 October 2023  
Project No. 99902071

2023-XE-NRC-041

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

**Presentation Materials – Xe-100 Graphite Engagement: ASME Service Level Definition, LBE Mapping, and Design Loadings for Graphite Core Assembly**

This letter provides the X Energy, LLC (X-energy) presentation material for the 9 November 2023 “Xe-100 Graphite Engagement: ASME Service Level Definition, LBE Mapping, and Design Loadings for Graphite Core Assembly” U.S. Nuclear Regulatory Commission pre-application engagement meeting (Enclosures 2 and 3). The presentation material contains proprietary information; as such, it is requested that Enclosure 3 be withheld from public disclosure per 10 CFR 2.390, “Public inspections, exemptions, requests for withholding.” Redacted information is identified using [[ ]]<sup>P</sup>. 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 presentation materials provided in Enclosure 2 that should be made publicly available.

This letter and enclosures make no new or revised regulatory commitments.

Should you have any questions regarding this presentation, please contact Jon Facemire at [jfacemire@x-energy.com](mailto:jfacemire@x-energy.com).

Sincerely,

A handwritten signature in black ink that reads "Jon Facemire".

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Jonathen Facemire  
Licensing Manager  
X Energy, LLC

Enclosures:

- 1) Affidavit Supporting Request for Withholding from Public Disclosure (10 CFR 2.390)
- 2) “Xe-100 Graphite Engagement: ASME Service Level Definition, LBE Mapping, and Design Loadings for Graphite Core Assembly Presentation Material – Open Meeting – Non-Proprietary (Public)
- 3) “Xe-100 Graphite Engagement: ASME Service Level Definition, LBE Mapping, and Design Loadings for Graphite Core Assembly Presentation Material – Closed Meeting – Proprietary (Non-Public)



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