

25 June 2024

2024-PLM-NRC-009

Project No. 99902117

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

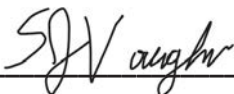
**Submittal of Project Long Mott Presentation Materials - Geotechnical and Groundwater Modeling Approach**

This letter provides the X Energy, LLC (X-energy) presentation material on behalf of Project Long Mott for the upcoming “Geotechnical and Groundwater Modeling Approach” U.S. Nuclear Regulatory Commission pre-application engagement meeting (Enclosure 2), scheduled for July 23, 2024. 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 [ [ ]]. An affidavit certifying the basis for the request to withhold Enclosure 3 from public disclosure is included as Enclosure 1.

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

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

Sincerely,



---

Stephen Vaughn  
Program Manager, Xe-100 Licensing  
X Energy, LLC

Enclosures:

- 1) Encl. 1 – Affidavit Supporting Request for Withholding from Public Disclosure (10 CFR 2.390)
- 2) Encl. 2 – Presentation Materials – “Geotechnical and Groundwater Modeling Approach” – Non-Proprietary (Public)
- 3) Encl. 3 – Presentation Materials – “Geotechnical and Groundwater Modeling Approach” – Proprietary (Non-Public)



**X Energy, LLC**  
801 Thompson Avenue  
Rockville, MD 20852  
+1 301.358.5600

---

cc:

X Energy, LLC

Harlan Bowers

David Bannister

Steve Miller

Milton Gorden

U.S. Nuclear Regulatory Commission

Stephen Philpott

Adrian Muñiz

Ondra Dukes

Department of Energy – Office of Clean Energy Demonstrations:

Jeff Ciocco

David Yarwood