

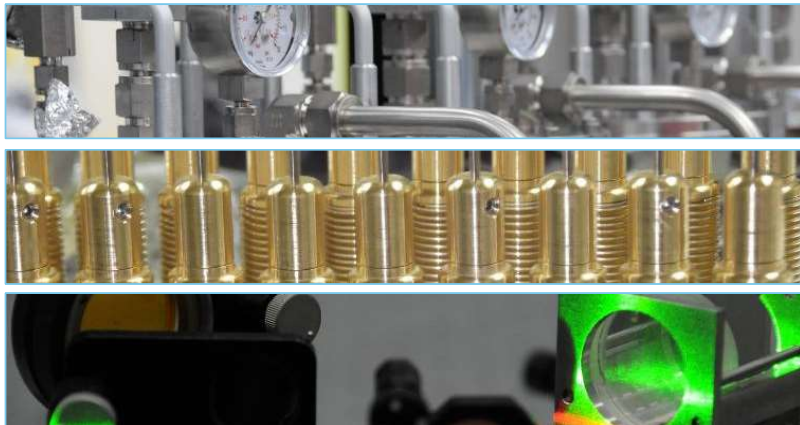


# **Efficiency In Motion Paducah Laser Enrichment Facility (PLEF) License Application**

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# About us



## Our Mission:

**Deploy the world's first laser-based uranium enrichment facility in Paducah ...**

- ... for reliable, carbon-free nuclear power
- ... for U.S. energy security and diversity of supply
- ... to restore U.S. leadership in advanced fuel cycle technologies
- ... to convert legacy DOE waste to clean energy



## Ownership

GLE is jointly owned by Silex Systems Ltd. and Cameco Corporation



*Inventor of the SILEX process*



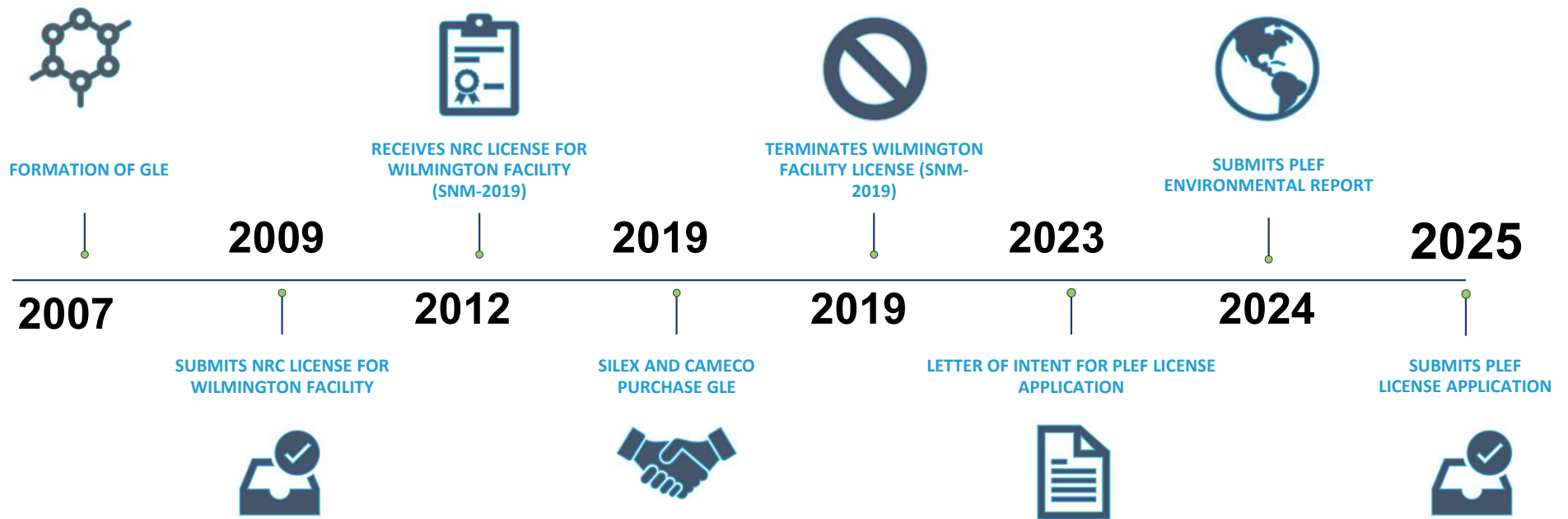
*One of the world's largest integrated nuclear fuel suppliers*

## Locations

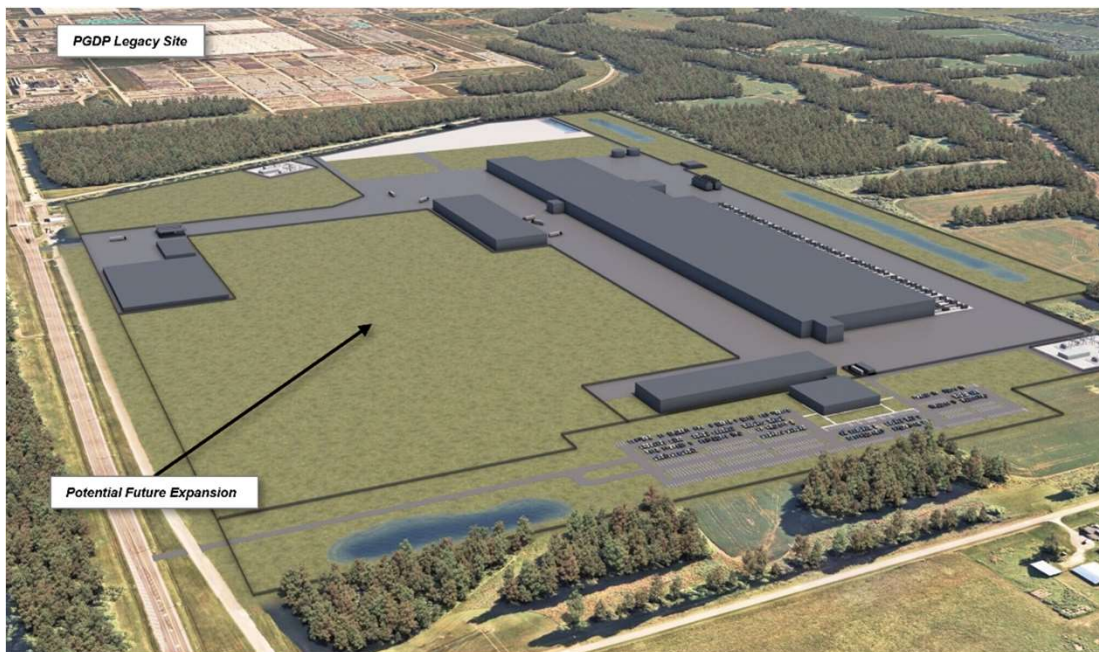


**120+ employees ... 85,000+ sf of advanced manufacturing and operations footprint**

# Historical Context of GLE License Application



# Environmental Report Activities



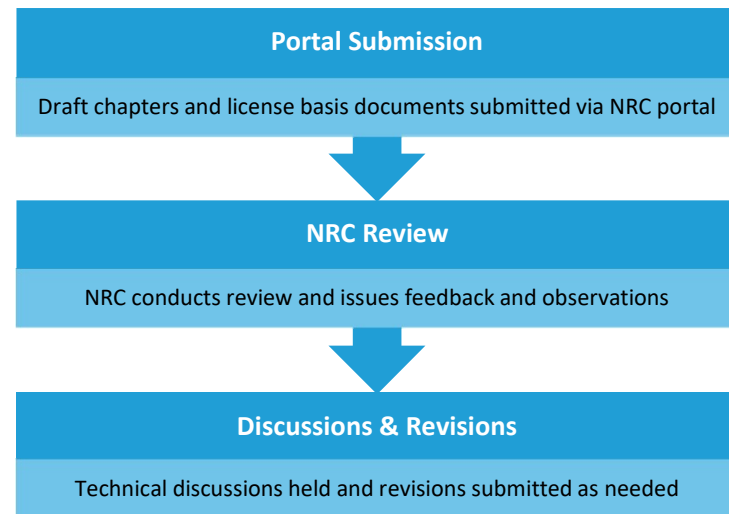
- **July 2024** GLE submits an exemption request to allow the Environmental Report required by Part 51 to be submitted separately from and before the license application
- The initiative for a bifurcated request:
  - allowed for the NRC to begin the review of the environmental report while the safety and safeguards portions of the license application preparation was completed,
  - did not endanger life or property or common defense & security, and
  - was in the public interest (national objectives, industry demand, and clean energy initiative).
- Pre-application meetings, written observations and site visit conducted prior to formal submission
- **December 2024** GLE submitted its Environmental Report
- **No** RAIs were issued for the ER
- Draft EIS is expected in **March 2026**



# Pre-application Engagement

- SNM-2019 (terminated) served as the foundation and basis for license application development
- GLE engaged in multiple pre-application meetings with the NRC Technical Reviewers throughout the application development process
- An NRC portal was established to streamline the sharing of draft application documents
- GLE submitted the majority of its license application content through the online portal for NRC draft review
- NRC provided observations to draft documents and revisions made to reduce RSI/RAIs

## Draft Submission & Review Process



# Submission & Acceptance Review

- June 2025 GLE submits PLEF License Application
  - First enrichment facility license application in over a decade
- Received acceptance letter August 4, 2025
  - No Requests for Supplemental Information (RSI) were issued during acceptance review
- Established an **18-month review schedule** to be completed in **January 2027**
- Promptly received voluntary observations and responses were provided



# Strengths & Recommendations

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- **Strengths**

- The review process has been streamlined
- Portal establishment significantly improved draft review and license application development
- Pre-submittal meetings, draft reviews, and observations have resulted in a reduction of RAIs

- **Recommendations**

- More consistency in NRC staff and technical reviewers
- Rulemaking changes under 10 CFR 70.22 requires consideration
- Revisions to NUREG-1520 are needed as part of an NEI led initiative

