

Office of Nuclear Energy HALEU Availability Program FY 2022 Proposed Activities

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High-Assay, Low-Enriched Uranium Availability

Budget Summary

\$ in thousands

	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Request	Change FY22 vs FY21
High-Assay Low-Enriched Uranium Availability	-	-	33,075	33,075



HALEU Demonstration Centrifuge

Mission

Advanced reactors are being developed for flexible baseload power generation, providing U.S. leadership in nuclear technology, enabling new markets for export, and reducing greenhouse gas emissions. Many of these reactors are expected to require high-assay, low-enriched uranium (HALEU) fuel. This subprogram will work to make available small quantities of HALEU from limited DOE uranium inventories in the short term, in coordination with the National Nuclear Security Administration (NNSA), and support the private sector in its building out of commercial HALEU production and supply chain capability in the U.S. in the long term.

FY 2022 Planned Accomplishments

- Work with the National Nuclear Security Administration on the recovery and down-blending of limited quantities of highly enriched uranium to high-assay, low-enriched uranium (HALEU).
- Develop criticality benchmark data to support the design and licensing of transportation packages.
- Acquire transportation packages for Department of Energy-owned HALEU.
- Provide additional support to HALEU enrichment demonstration contractor for impacts related to COVID, such as supplier issues and contractual impacts.
- Continue staffing and operation of the HALEU enrichment demonstration facility in a cost share with industry for a limited time, if appropriate.
- Work in partnership with industry to understand and help enable commercialization of long-term private-sector HALEU production.
- Initiate National Environmental Policy Act activities supporting HALEU availability.