

Developing a HALEU Transport Infrastructure –A Collaborative Path to Nuclear Energy Security

The UK's Department for Energy Security and Net Zero (DESNZ) has partnered with Nuclear Transport Solutions (NTS) under the High Assay Low Enriched Uranium (HALEU) Fund Phase 3a Transport Solution to develop comprehensive solutions for the safe and efficient transport of HALEU. This proposal, building on the success of Project THOR, outlines key advancements in UK transport capabilities to support the nuclear fuel supply chain.

Team UK is driving critical innovations in HALEU logistics, including the design, licensing, and prototyping of HALEU oxide transport packages to be approved by the Office for Nuclear Regulation (ONR). These efforts encompass road and maritime transport solutions, ensuring seamless domestic movement and facilitating international exports, particularly to North America. Through coordinated industry engagement, Team UK is addressing regulatory challenges, promoting best practices, and fostering strategic collaboration among key stakeholders in the nuclear sector.

The outcomes of this project will strengthen the UK's energy security and nuclear resilience, offering a robust infrastructure for HALEU transport that supports both commercial needs and strategic national interests. This initiative positions the UK as a leader in HALEU transport, underpinning future developments in advanced nuclear technologies and clean energy.

Country or International Organization

Instructions

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