Spending Time on SNF/UNF: (some of) Orano’s Activities

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Reprocessing/Recycling: La Hague Commercial Reprocessing Facility
Advanced Recycling: Recycling Used MOX, Take-Back Program with Advanced Reactors, Isotope Recovery, Advanced Separations, ARPA-E

Orano lends client first core load of plutonium

Client

Deep Geologic Repository

Orano receives final amount of plutonium balancing initial loan

Returned UC-C and UC-V are disposed of by Client

The Solution… a modular “plug-n-play” treatment system*

*Initial proposal subject to optimization...

Upstream Treatment Facility for AR UNF/SNF

Treatment Modules likely will need upstream conditioning of incident gases and downstream monitoring

Stack Release (Monitored)

Particulate Capture

Xe Capture

Metal Organic Frameworks

106Ru Capture

3H Capture

129I Capture

14C Capture

85Kr Capture

Silica Gel

Molecular Sieve

AgI-Func Silica Aerogel

Liquid Scrubber
Transportation: Intermodal Transfers, VY LLW Shipment in UNF Cask, Atlas
Consolidated & Extended Interim Storage: HBU Demo Project, Interim Storage Partnership (ISP), Site-Specific Deinventory Studies, DPC Monitoring
Disposal: Direct Disposal of Dual Purpose Canisters (DPC), Deep Borehole (DBH), Cube System, Disposal System Designs