2025 Northwest Interstate Compact Commission Annual Meeting - Corporate Update

Vern C. Rogers

Director, Regulatory Affairs

Adapting to Industry Macro-Trends

1970s
- Minimal federal coordination; state-based regulation
- High disposal volumes from growing nuclear power operations sector

1980s
- Low-Level Radioactive Waste Policy Act and 1985 Amendments: Regional Compacts Created
- Closure of multiple sites (e.g., Maxey Flats, KY and Sheffield, IL) due to groundwater concerns

1990s
- Shrinking disposal access: Barnwell, Richland
- Waste from large environmental restoration projects. Increased reliance on storage at reactor and generator sites

2000s
- Barnwell closed to out-of-compact generators (2008) → most states lost B/C disposal option (on-site storage)
- Equivalent operational and decommissioning waste volumes. Most restoration projects completed.

2010s
- Energy*Solutions* and Waste Control Specialists are primary commercial disposal facilities
- Declining operational volumes, increasing decommissioning volumes

2020s
- Increase in restart and extension of operating power reactors (decreasing decommissioning waste volumes)
- Medical / industrial waste steady, but minor fraction of disposal volume

The Executive Order 14300 (signed on May 23, 2025)

Category	Direct Changes	Indirect Changes
Personnel	DOGE embedment; commissioner firing (Hanson), resignation (Caputo), confirmation (Wright); planned layoffs.	Potential morale impacts or voluntary departures due to reform pressures.
Regulatory	NEPA rulemaking initiated; 18-month rulemaking timeline for licensing/streamlining; interim exemptions.	Industry roadmaps influencing future NRC policies; enhanced focus on advanced reactors.
Structural	Reorganization planning (e.g., flatten hierarchies, new licensing office).	Broader political debates on agency independence; market enthusiasm for nuclear expansion.

Department Of Government Efficiency

Category	Direct Effects	Indirect Effects
Oversight and Structure	DOGE staffer embedded for EO implementation; mandated consultations for reorganization and rule revisions.	Perceived loss of independence; debates on accountability and "hostile takeover."
Personnel	Reductions in force; firings (e.g., Hanson); staff reassignments.	Morale decline; potential expertise drain amid retirement wave.
Regulatory Processes	"Rubber stamp" directives for DOE/DOD designs; fixed deadlines and expedited pathways.	Resource shift from inspections to licensing; safety concerns from advocates.
Broader Impacts	Formation of regulatory revision team with DOGE input.	Industry push for faster approvals; political scrutiny in Congress.

Expanding Nuclear Services

Nuclear Services

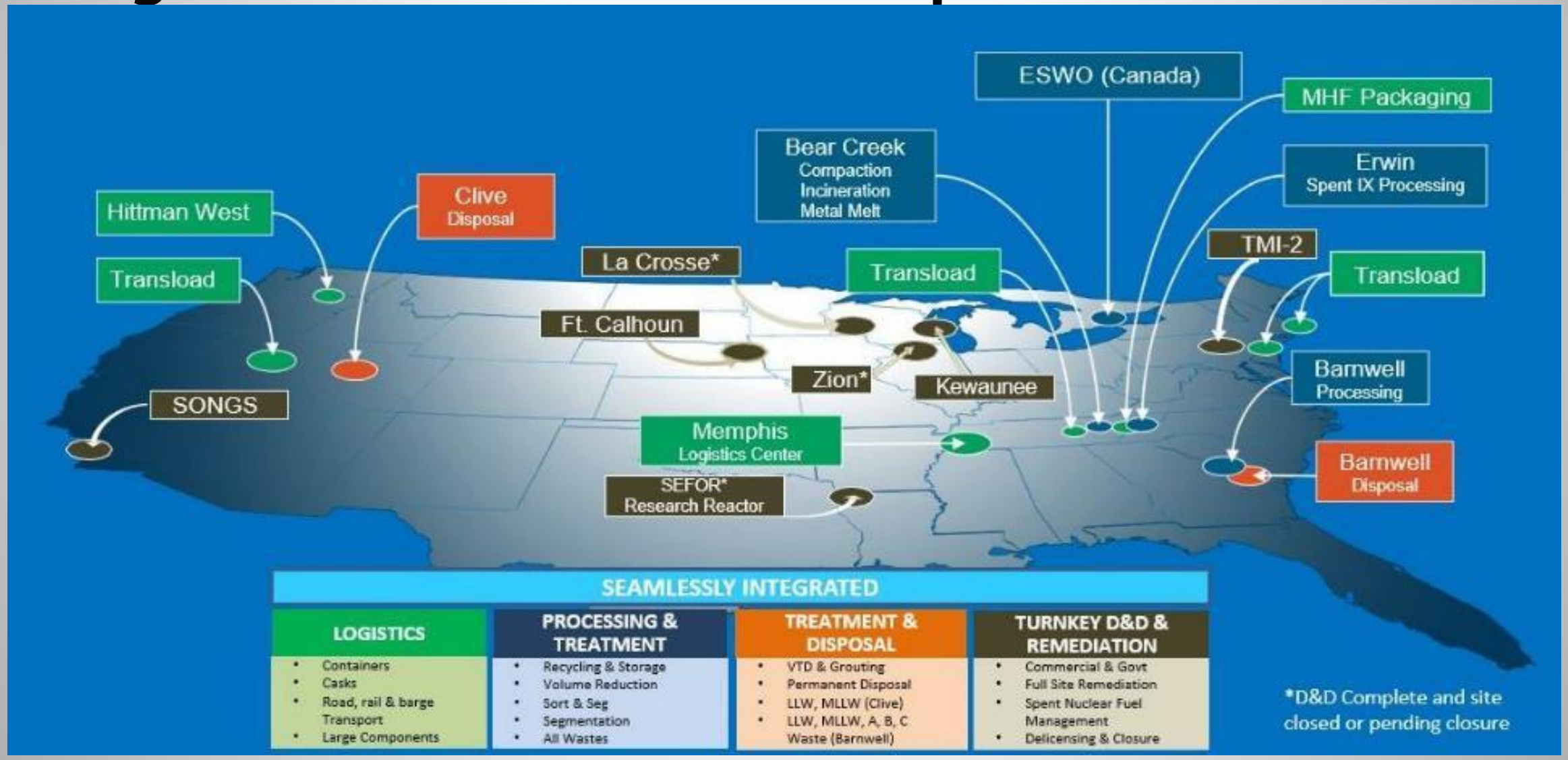
- Small Modular Reactor Design and Construction
- Operating Nuclear Plan License Extension
- Operating Nuclear Plant Refurbishment
- Decommissioning & Decontamination
- Waste Disposal
- Waste Processing
- Nuclear Plant Waste Solutions
- Onsite Integrated Services

Acquisitions / Partners

Transportation& Logistics

Cask Division

Integration of WM and D&D OperationsContinued



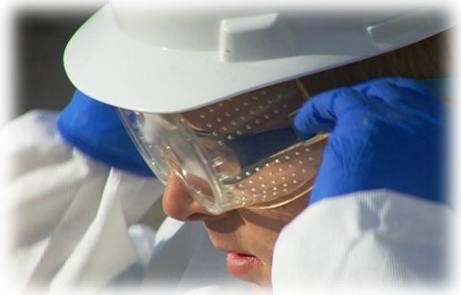
Clive Facility Update

- Over 35 years of proven experience treating and disposing of Class A radioactive waste.
- One-of-a-kind bulk waste and containerized waste facilities with unique licenses and permits.
- Long-term federal and commercial contracts.

Facility Overview – Clive Operations

- Industrial
  - Behavior Based/HPI
  - Employee directed / Management Commitment
  - Between 2004 & 2025, over Seven Million hours worked without a lost-time injury
  - Utah Safety Council Award of Merit
    - 2006, 2007, 2008, 2009, 2012, 2013, 2015, 2016, 2017, 2018, 2019, 2020, 2021 + + +
  - Utah Safety Council Perfect Record Award
    - 2011, 2012, 2013, 2015, 2016, 2017
  - Utah Safety Council 1 Million Man Hour Award
    - 2013, 2016, 2020
  - Utah Safety Council Award of Honor
    - 2017, 2019
  - National Safety Council Perfect Record Award
    - 2005, 2006, 2007, 2008, 2010, 2015, 2017
  - National Safety Council Million Man Hour Award
    - 2006, 2008, 2013, 2017, 2020, 2021
  - National Safety Council Occupational Excellence Achievement Award
    - 2017
  - National Safety Council Safety Leadership Award
    - 2017, 2021
  - **VPP Star - 2017**

- Radiological
  - ALARA
  - Personnel exposures very low
  - 34 mRem average annual employee exposure



Clive Permits and Licenses

EnergySolutions

EnergY*Solutions* is permitted, licensed, and authorized to receive, treat and dispose of the following wastes:

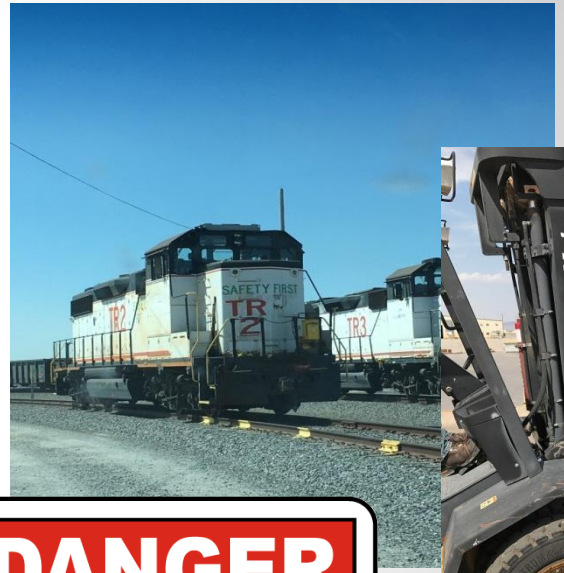
Class A LLRW as defined in UAC R313-15-1009 Class A Mixed LLRW (radioactive and hazardous) NORM/NARM	Radioactive Material License RML UT 2300249, as amended
11e.(2) Byproduct Material as defined by the AEA	11e.(2) Byproduct Material License RML UT 2300478, as amended
Receipt and storage of RCRA-regulated mixed waste Treatment of mixed waste for RCRA constituents Mixed waste disposal	State-issued Part B Permit EPA ID Number UTD982598898
BWF - Receipt, storage, treatment, and disposal of waste containing SNM - concentration-based receipt limits (versus mass-based)	Special Nuclear Material Exemption Order issued by NRC, as amended
Receipt, treatment, management and disposal of PCB radioactive and PCB mixed waste	Two TSCA Approvals issued by EPA Region 8

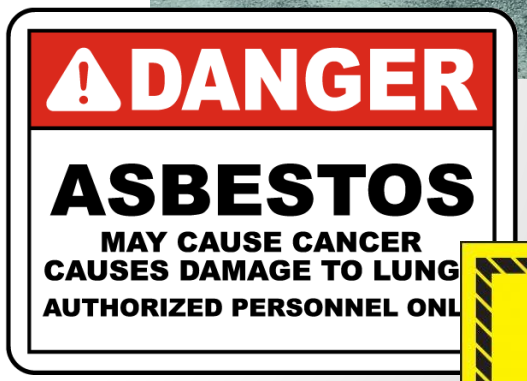
Automation & Customer Convenience

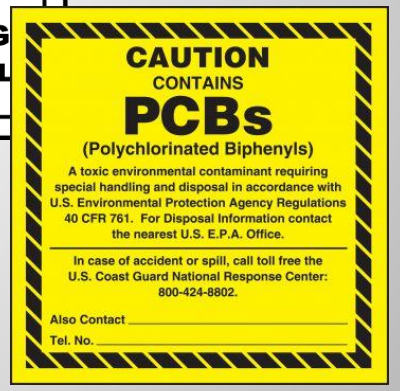
All current Permits, Licenses, WAC, etc. can be accessed from our company website: www.energysolutions.com

Clive Waste Management Capabilities

- **Class A LLRW and NORM**
  - Soil, resin, filters, operational waste, large components
  - Containerized Waste (CWF) and Bulk Waste (BWF)
- **Rail or Truck Transport**
- **Radioactive Liquids**
  - Two 10,000-gallon tanks to process real-time
  - Two+ Portable Eurotainer ISO Tanks (3,000-gallon)
- **Mixed Waste (Radioactive and RCRA Hazardous)**
- **PCB/Radioactive Waste - TSCA Regulated**
- **Approved to accept CERCLA Waste**
- **Large Component Logistics**
- **UCNI and Export Controlled Waste**
- **Other hazardous substances**
  - Asbestos, beryllium, etc.







Clive Waste Acceptance

Bulk Waste Facility (BWF)

- MW, 11e.(2), & most of Class A LLRW
- Receive Bulk and non-Bulk Containers
- Soil, Debris and Oversized Debris
- Low Dose Resin (< 500 mR/hr, Dewatered)
  - Liquid Verification for Grossly Dewatered (< 10R)
- Receive Highway and Rail shipments
- CLSM (Grout) disposal for Higher Contamination / Higher Dose Rate Waste

Clive Waste Acceptance

Bulk Waste Facility – (Rail)

- Direct Union Pacific rail service to facility
- Over 16 Miles of rail lines onsite
- Railcar Dumping
  - Two Rotary Dumpers in Operation
- Rail Decon Facility is part of Rotary
- Railcar transloading capabilities (Intermodals and Cargo Containers)

Clive Waste Acceptance

Bulk Waste Facility – (Highway)

- Facility is located just 5 miles off I-80
- Security Officers onsite 24/7
- Parking for over 40 Trucks / Trailers
- 2 Unloading Docks
- Live unloading of all shipments
  - Driver doesn't have to enter restricted area
- Flatbed, Van, Conestoga Trailers all acceptable
- Onsite Truck Scale for weight verification
- Showers, Laundry, Lounge for Driver Use

Clive Waste Acceptance

Mixed Waste Treatment Facility

- Macroencapsulation
- Stabilization
  - Deactivation / Neutralization / Ox / Red
- Mercury Amalgamation
- Liquid Solidification
  - Aqueous and Non-aqueous
- Vacuum Thermal Desorption (VTD)
  - Organics, PCB's

Clive Waste Acceptance

Containerized Waste Facility (CWF)

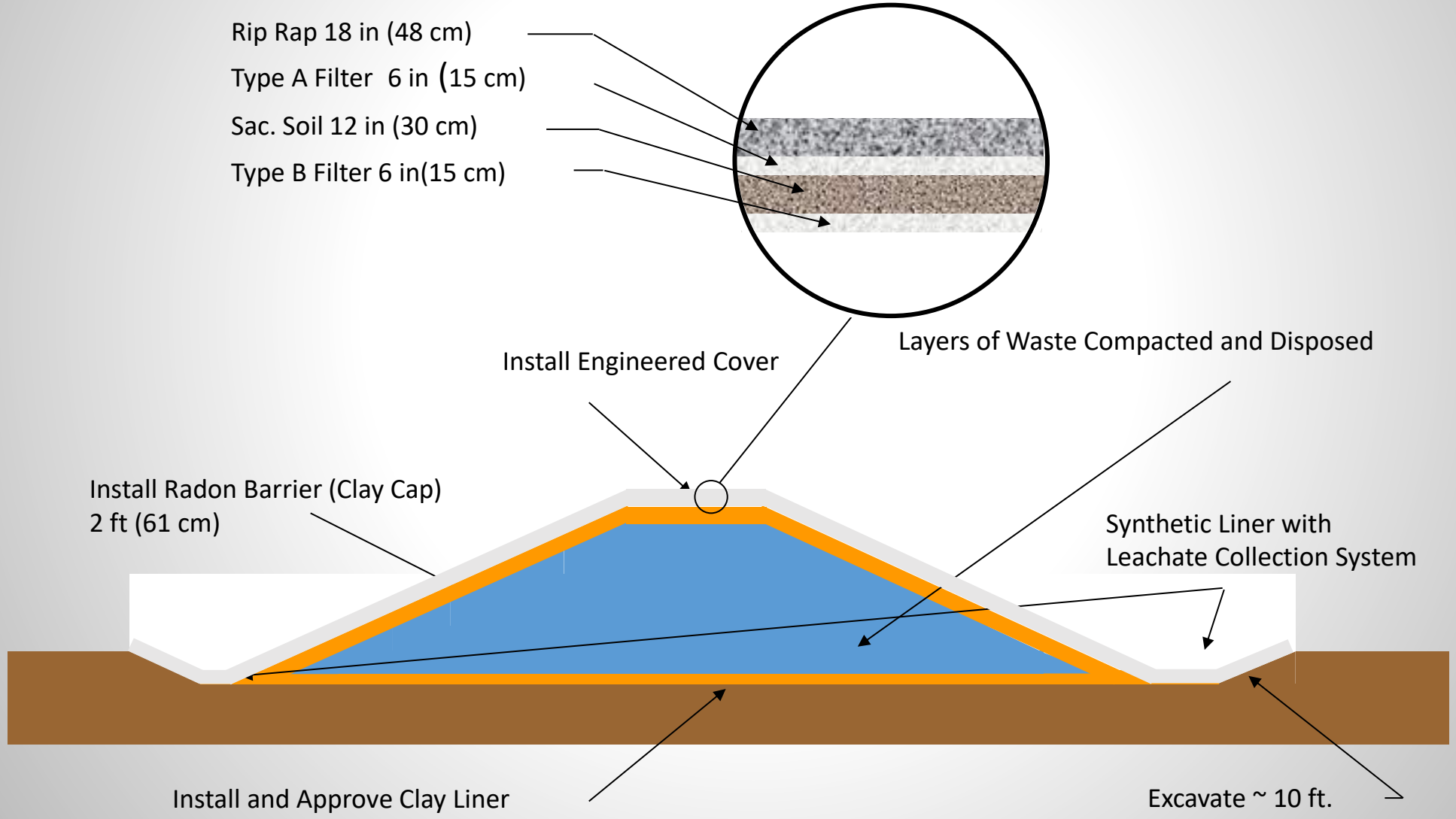
- Higher Dose / Higher Activity liners / packages for disposal
- Low contamination “clean area” material handling
- Void Remediation on packages that are <85% full **(prior approval needed)**
- Capabilities to handle multiple casks per day (same day turnaround)
- Certified Generator Program

Clive Waste Acceptance

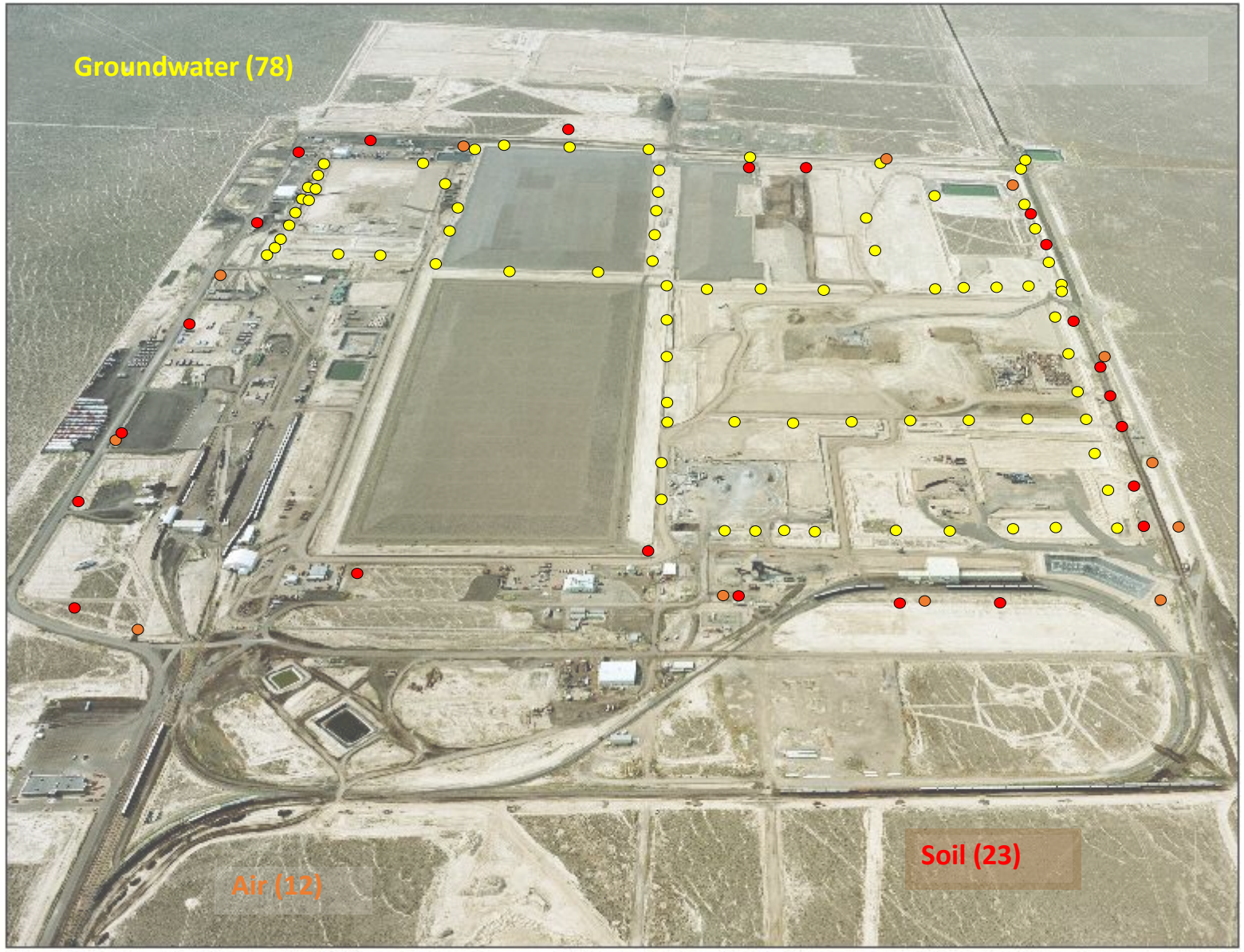
Large Component Disposal

- Receive by highway or rail
- Typically – Greater than 20,000 lbs
- Heaviest component received - 1.52 million pounds
- All Large Components undergo an Engineering Review prior to approval
- All Large Components are placed for final disposal (will be grouted in place)

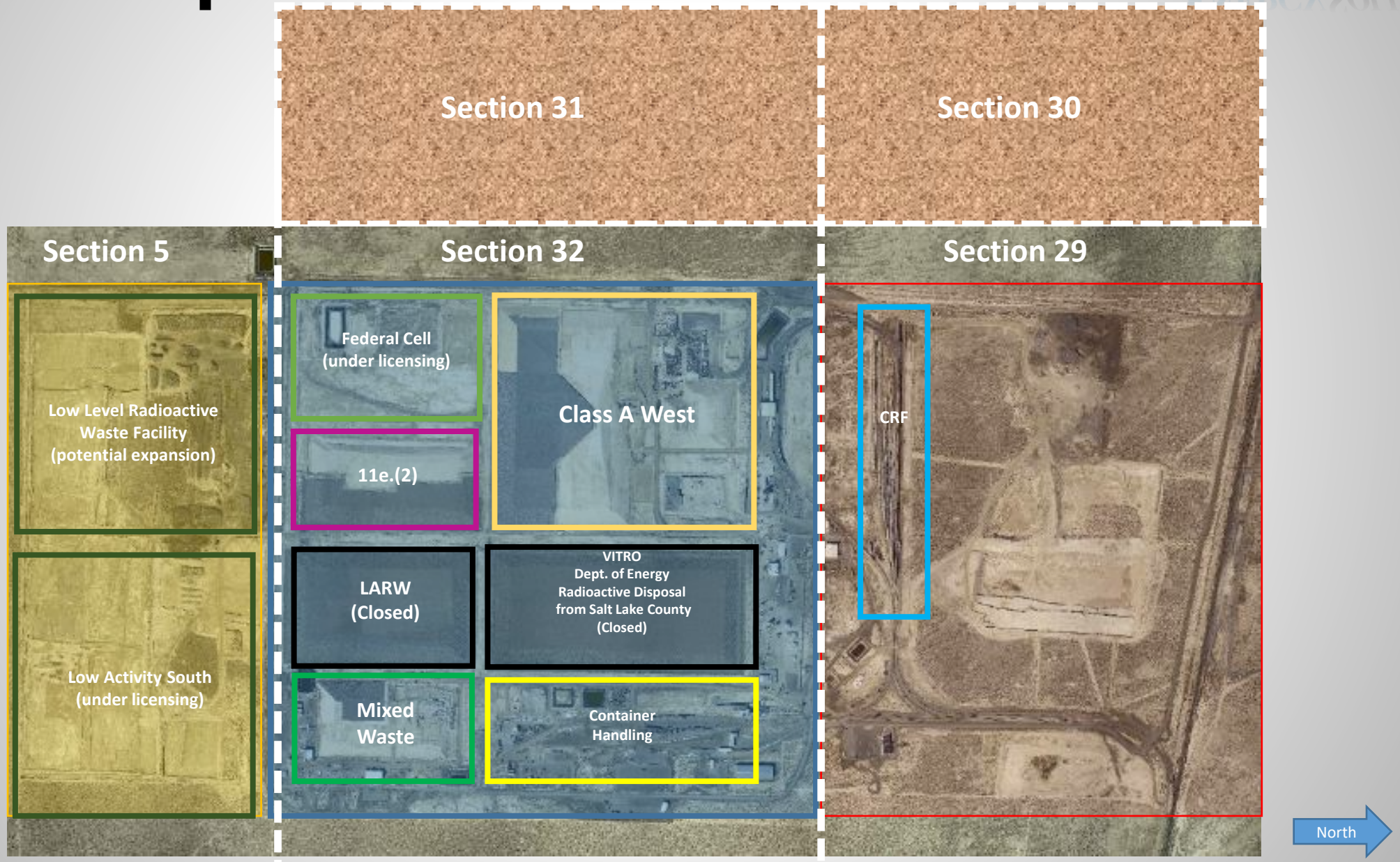
Facility Overview - Clive Waste Disposal



Environmental Monitoring



Updates for the Clive Facilities



SITE UPDATE
Licensing Update

- Federal Cell Facility for depleted uranium and federally-generated low level radioactive waste (license application under review)
- License and Permit Renewals
  - RML UT2300249
  - GWQDP UGW450005
  - RCRA Part B Permit (renewal completed September 2025)
- Low Activity Cell Amendment (~10% Class A)

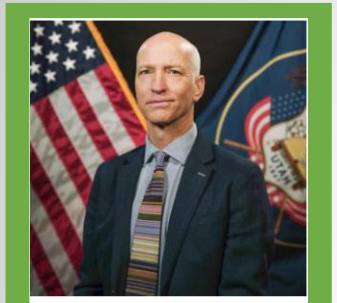
SITE UPDATE
Capital Improvements

- East Side Rotary Facility
- Liquid Waste Treatment
- Evaporative Storage
- LLRW Cover Construction
- Mobile equipment fleet upgrades
- Cranes / Heavy Haul Equipment
- Health Physics Instrumentation

SITE UPDATE
Liquid Waste Treatment and Disposal

SITE UPDATE

Changes in Regulators / Inspectors



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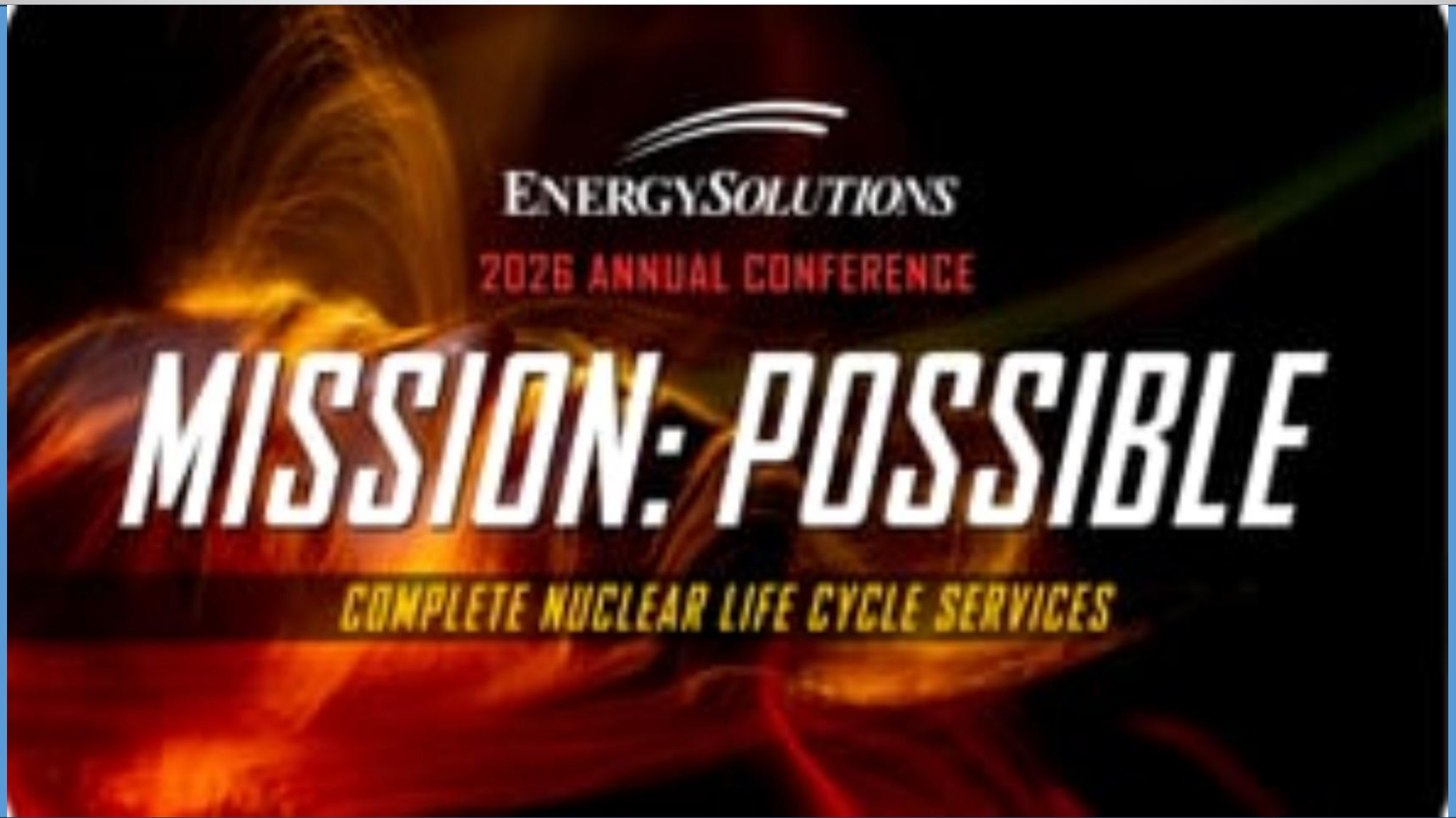
= new in position

2026 Customer Conference



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Questions ?