



# **LLRW Management Disposal Update**

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- We always put **Safety** first
- We build **Trust** by
  - always telling the truth
  - making our Customer's success our success
  - being the best in the World at what we do
  - and delivering results
- We care deeply about our **Employees** and want them to be happy and successful

# Logistics, Processing & Disposal



## Logistics

- Provide all aspects of complex planning and transportation
- Dedicated fleet of tractors, trailers, railcars, and containers

## Processing

- Own/operate multiple processing facilities in South Carolina, Utah, and Tennessee
- The most diverse capabilities in the U.S. for handling, treating, and processing radioactive materials

## Disposal

- Own the largest commercial radioactive waste disposal facility for Class A low-level radioactive waste (LLRW) in the U.S.
- Operate the LLRW disposal facility in Barnwell, SC to dispose of Class A, B, and C LLRW from Atlantic Compact states

# Range of Products & Services



**Casks and Containers**



**Liquid Waste Processing Equipment**



**Analytical Services**



**Decontamination and Decommissioning**



**Metal Melt & Beneficial Reuse**



**Large Component Transportation**



# Clive Disposal Facility



- World's largest commercial radioactive waste disposal facility
- ~30 years of capacity remaining under current permits
- 20 years of proven experience in treatment and disposal of complex waste streams





# Bear Creek Processing Facility



- Largest privately held commercial facility for the processing of radioactive material
- VPP STAR site



# Customized Solutions



- Facility operations
- Materials management
- Recycling and equipment disposition
- Professional engineering services
- Radioactive materials preparation, profiling, processing, treatment and disposal
- Transportation and logistics
- Emergency response



# Zion Decommissioning



EnergySolutions has entered into a first-of-its-kind “license stewardship” agreement for the decommissioning, site restoration, and dry fuel storage for the two-unit Zion nuclear power plant in Illinois





# SONGS Steam Generator Project



# Sealed Sources



- EnergySolutions submitted a request to the Utah Division of Radiation Control (DRC) to accept Class A sealed sources (August 2011)
- DRC draft approval is out for public comment through March 13, 2012
- Approval would allow disposal of Class A sealed sources for one year
  - Waste Class is calculated based on the activity and volume of each individual sealed source
  - Sources will be disposed at CWF

# Blending



- Nuclear power plant resins are classified for disposal post-processing
  - Processing of high activity with low activity resins has been defined as “blending” by regulators
- Utah DRC approved EnergySolutions to receive up to 40,000 ft<sup>3</sup> of “blended” Class A waste per year from SEMPRASAFE
- SEMPRASAFE is a joint venture between EnergySolutions and Studsvik that takes advantage of Studsvik’s technology to process resins into a safer, more stable waste form, enabling immediate disposal at EnergySolutions’ Clive, UT disposal facility



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**ENERGY** *SOLUTIONS*