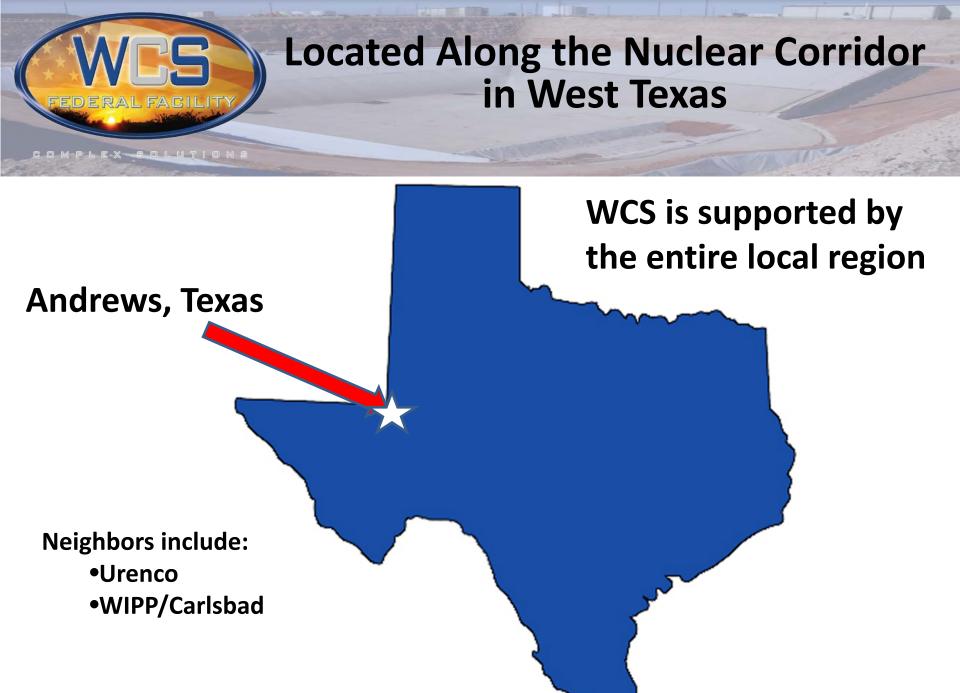


#### COMPLEX SOLUTIONS

#### Getting More Done With Less





**WCS Current Facilities** 

**Compact Facility** 

COMPLEX SOLUTIONS

#### **Byproduct Facility**

#### **Federal Facility**

Hazardous Waste Landfill

> Administration Buildings and Treatment Facility

LSA Pad



### Radioactive Waste Disposal License - What a Difference a Year Makes!

#### • Class A, B, and C - LLRW and Mixed LLRW Disposal

- Final LLRW license received September 2009
- CWF First LLW disposed April 2012
- FWF First MLLW disposed June 2013
  - FWF also has RCRA Permit and TSCA/CERCLA authorizations

#### • Includes Federal and Compact Landfills

- DOE signed Agreement to take ownership of the Federal Landfill after post-closure – minimizes long term liability – only federal waste is allowed – no comingling of waste
- TCEQ has taken ownership of Texas Compact Landfill and WCS leases it back for operations – no long term liability – title of the waste is transferred directly to the State of Texas upon acceptance



# **Federal Waste Facility**



- FWF Cell is over 100 feet deep 7 ft liner system
- Multi-layered cover system that is 25 45 feet thick, return to original surface
- Depth to waste is at least 25 feet below surface
- Natural red bed clay is less permeable to water than concrete
- •The FWF exceeds the 10,000-year period of compliance -10 CFR Part 61 draft rulemaking



# Federal Waste Facility Key Dates

- Contract Award May 2, 2013 Nationwide IDIQ -Low-Level and Mixed Low-Level - Waste Disposal Services DE-EM0002405
- Grand Opening June 6, 2013
- DOECAP Audit July 2013 ZERO Findings or Observations
- Currently 9 FWF Certified Generators to date (two additional audits pending)
- Current Task Order awards for the disposition of 38,000 cubic feet of Class C MLLW/LLW YTD



# WCS Operations at the Treatment Facility



SOLUTIONS

#### Portsmouth MLLW Class C Treatment (stabilization) – Doing More for Less

Stabilized shredded drum waste in flexible packaging for disposal into FWF





# Encapsulated sealed source process (exit signs)

#### Encapsulated 20,000 curies of tritium contaminated exit signs





# **Doing More With Less**



Los Alamos Governors Goal Doing More for Less

With the help of WCS and the supporters in Texas, we now have a cost-effective way of meeting our commitment to the Governor of New Mexico that was agreed to following the 2011 Las Conchas fire that came within 3-1/2 miles of the Las Alamos National Laboratory waste storage area

David Nickless - Los Alamos Field Office DOE Transuranic Waste Manager – DOE Press Release - June 6, 2013



Los Alamos Governors Goal Doing More for Less

- Governor's Goal 3,706 cubic meters
- LANL's current process includes the decontamination of glove boxes from TRU to Class C MLLW
- DOE issued direct task orders to WCS <u>saves</u> DOE the 40% overhead/G&A applied by the M&O contractor
- Waste required Macro-encapsulation Treatment WCS disposal method meets the requirements under RCRA – <u>saves</u> LANL the cost associated with treatment



# Los Alamos Governors Goal Doing More for Less

- WCS has designed and is building oversized MCCs (triple) to allow for the direct disposal of oversized waste –<u>saves</u> LANL the cost of size reduction, and is ALARA
- Previous approach transport to Tennessee for treatment, and then transport to NNSS for disposal – 3,219 miles instead of 395 miles (one way) to WCS – <u>saves</u> LANL transportation cost, minimizes transportation risk, and allows for increased number of shipments
- DOE at LANL has issued 5 task orders to WCS for disposal of Class C MLLW totaling – 847 cubic meters YTD – representing 23% of the entire governor's goal – Allows LANL to better meet the Governor's Goal safer, and at the lowest cost



# **LANL MLLW Class C Shipment**

Receipt of waste packages into WCS





# **LANL MLLW Class C Shipment**

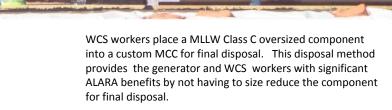
COMPLEX SOLUTIONS

#### Receipt of oversized MLLW waste packages into WCS





### Disposal Class C Oversized MLLW in the FWF



wcstexas.com

0020



# SPRU Waste

Separations Process Research Unit

- DOE issued direct task orders to WCS
- 105 M<sup>3</sup> of Class C LLW Debris (Solidified Tank Waste)
- Performed generator certification, waste profile approval, and task order award within seven working days from first contact by DOE
- First shipment received 10/11/13





## **License Changes to Further Support the DOE EM Mission**

- ✓ <u>Special Nuclear Materials</u> allows WCS to take possession of USDOT limits of SNM on a conveyance prior to disposal. *Amendment approved.*
- Co-disposal Concept allows WCS to dispose of Class A soil/debris waste and large components outside of an MCC, with limited size restrictions. *Amendment approved.*
- ✓ Increase Tc Limits the Tc limit for the FWF increased to 1190 curies. Amendment approved.
- Depleted Uranium Disposal submitted an amendment to revise the performance assessment to take ~400,000 m3 of DU (large quantities) as well as other LLW near the Class C limits. Amendment expected to be approved in July 2014.



# **Questions?**

#### www.WCSTEXAS.com