A CENTRALIZED INTERIM STORAGE FACILITY FOR USED NUCLEAR FUEL

A PARTNERSHIP OF THE EDDY-LEA ENERGY ALLIANCE AND HOLTEC INTERNATIONAL

By: John Heaton, Chairman ELEA, LLC
What Are The Waste Solutions

• Consolidated Interim Storage
  – Most Immediate Solution (4-5 years)
  – Need Access to Nuclear Waste Fund (Law)

• Geologic Repository
  – Years From Reality
  – WIPP Clear Option – Takes LWA Change)

• Technical Solutions
  – Reprocessing SNF
  – New Reactor Technology Could Burn SNF
Interim Dry Storage Sites in the U.S.

Map courtesy of Ux Consulting, StoreFuel, STF206, 10/6/15
Why Do We Need Consolidated Interim Storage?

- CIS is a perfect compliment to a future repository – not a permanent solution
- CIS is a safe and secure way to age the fuel before storage at a future repository site
- Recommended by the BRC
- At 7 decommissioned sites, the spent fuel stored on-site is all that prevents from releasing the land to other uses
- CIS is the shortest path for DOE to begin taking spent fuel and reduce the amount the government pays as a result of lawsuits
  - By 2020 projected cost to be $22 billion & $38 billion by 2048
  - Currently projected at $500M per year by 2020
- Provides the most flexibility for recycling, research, and disposal
- Dispels Arguments There Are No Solutions For SNF
WHERE ARE WE TODAY?

• 2015 Senate tried Producing Comprehensive Bill – DOA needs help
• 2015 House– Conaway produces CIS bill – DOA Shimkus kills
• 2016 House – Mulvaney produces CIS bil – DOA Shimkus kills
• 2016 Senate is working on S. 854 comprehensive BRC bill
• 2016 Alexander reported to be working on CIS bill
• House Still Working On Yucca Bill, But May Include CIS (reluctantly)
• House wants Yucca funding and Senate wants CIS, but no Yucca
  – Will Bill provide for a pilot CIS only?
  – Will Bill overcome CIS restrictions in NWPA?
• NE embarking on Consent Based Siting Process Development and flInding
• DOE interested in Defense only repository
Who is the EDDY-LEA Alliance?

- Alliance of the Cities of Carlsbad & Hobbs and the Counties of Eddy & Lea
- Formed Under the Local Economic Development Act for Economic Development Purposes in 2006 & to Respond to Global Nuclear Energy Partnership (GNEP) Proposal from DOE
- ELEA purchased 1,000 acres of land approximately halfway between Carlsbad and Hobbs, N.M. for use
Why the ELEA Site?

- Land studied extensively during Global Nuclear Energy Partnership (GNEP) process
- Remote location
- Geologic stability
- Dry area
- Infrastructure present, including rail
- Preexisting robust scientific and nuclear operations workforce
- STRONG CONSENT FROM AREA
SE New Mexico’s Nuclear Corridor
Holtec International

- Established in 1986
- Excellent on-time delivery record
- No history of long-term debt
- Self financed company growth
- Highest industrial credit rating [D&B-5A1]

Business Mix:

- ✓ 72% Nuclear
- ✓ 15% Coal, 10% Gas & Renewables, 3% O&G
HI-STORM UMAX: The Safest Solution for C.I.S.

Holtec constructed the HI-STORM UMAX at a U.S. nuclear power plant
HI-STORM UMAX: Stores Spent Nuclear Fuel Completely Below Grade

- Corrosion-Resistant Stainless Steel Spent Fuel Canister
- Steel/Concrete Lid
- Reinforced Concrete Top Pad
- Reinforced Concrete Base Mat
- Steel Liner
Phase 1 Construction

- Secure Area
- Rail Spurs from SWRR
- Operations & Security
- Batch Plant
- 200 HI-STORM UMAX Canisters
- Cask Transfer Facility
Excavation
CEC Placement
CLSM Pour
Form for Top Pad
Enhanced Security

- Configured to be visually inconspicuous
  - Profile is less than 610 mm (2 ft.) tall
  - A less visible target from the air
  - Reduced visibility from public land

- There are no areas on the ISFSI where a person may hide, making security an easily implemented activity
Turning Plans into Actions

- Holtec will support the prompt development of the consolidated interim storage site
  - ELEA believes Holtec underground dry storage technology is a perfect solution for a CIS facility
  - Holtec has partnered with Eddy Lea Energy Alliance, LLC to establish a CIS
  - Holtec will design, license and operate the CISF

- Holtec has constructed an underground dry storage facility in the U.S. which is now in use
EDDY-LEA ENERGY/HOLTEC
CONSENT STATUS FOR CISF

• Strong resolutions of support from counties and cities in area
• Legislature just passed two memorials supporting the CISF project
• Governor has written a strong letter of support for the project to Sec. Moniz
• Public Members (cities and counties) have endorsed contract with Holtec
• Holtec is proceeding with NRC license
NOW, WHAT ABOUT YOU?

- Why are you letting Shimkus & Upton kill any option to solve the problem? Illinois has the most nuclear power plants in the country?
- Holtec Private facility up and running by 2021
- 30 Total shuttered Reactors (7 ISFSI only, 4 license terminated, 3 in Decon, 3 Due to close, 13 in Safstor)
- 10 more considered at risk
- Others will fall into decommissioning status in the 2030’s
- There are 39 states with nuclear waste problems
- You Must Act to Motivate Your Cong Delegations
QUESTIONS ABOUND