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
Why Do We Need Consolidated Interim Storage?

- CIS is the missing piece to a disposal SYSTEM. It 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 (soon 12) decommissioned sites, the spent fuel stored on-site is all that prevents releasing the land to other uses
- CIS is the shortest path for DOE to begin taking ownership of SNF and reduce the amount the government pays for lawsuits
  - ✓ By 2020 projected cost to be $22 billion & $38 billion by 2048
  - ✓ Currently projected at $500M per year after 2020
- Provides the most flexibility for recycling, research, and disposal
- Repackaging will be almost certain
- Dispels Arguments There Are No Solutions For SNF
WASTE MANAGEMENT SYSTEM

REACTOR FUEL → WET STORAGE 4 TO 5 YEARS → DRY STORAGE AT SITE UNTIL < 50 C

CONSOLIDATED INTERIM STORAGE → CANISTER & FUEL R&D → RESIZING & REPACKAGING FOR DISPOSAL

REPOSITORY PERMANENT DISPOSAL
WHAT ABOUT THE BUSINESS MODEL?

- No Business Can Survive Without Revenue
- Every Decommissioned Site Costs $8-$10M
- Consolidation Cuts Cost Dramatically
- Allows DOE to Meet Contract Agreement
  - Take possession of SNF
  - Stop drain on treasury and all taxpayers
- Must Have Legislation to Access Fund
- DOE is Driving Transportation System Now
OTHER BUSINESS SOLUTION

• If Bill NOT Passed, Is There An Option?
• PUC’s Could pass 1/8 mil/KwHr = $100M
  – Money must remain in utility’s hands
  – Allows them to solve own problem
  – PFS was utility endeavor
  – Present model is all private with consent

• Challenges
  – Will utilities move forward with liability
  – Transportation Costs & Infrastructure
HI-STORE will employ HI-STORM UMAX technology - last word on public safety and security

HI-STORE will be a *universal* storage facility:

- It will store any US-origin commercial nuclear fuel currently packaged in dry storage canisters or stored in fuel pools.
- License application to store NUHOMS 24PT1-DSC canister in HI-STORM UMAX
  - Groundbreaking: Horizontal canister stored vertically
  - Submitted to U.S. NRC on August 30, 2016

Holtec will submit all remaining canister types supplied by other companies that are presently in use around the U.S.
HI-STORE Schedule

- UMAX Generic License Submittal – Aug 16
- HI-STORE Pre-application Audit with U.S. NRC – Feb 17
- HI-STORE Site-specific license submittal – Mar 17
- Work in progress to prepare site – Coordination with Fed, State, Local, Private entities:
  - Break Ground - 2020
  - Operations Commence - 2022
WIPP EVENT IMPACT?

- WIPP did not cause accident!!
- WIPP facility responded as designed.
- Area re-educated about radiation
- WIPP DSA & Procedures Much Enhanced
- Lesson Learned:

- NUCLEAR INDUSTRY IS A FAMILY. EVERYONE OWNS ANY MISTAKE. SAFETY, SAFETY, SAFETY.
Closing Summary

- Holtec: Industry leader in on-site and away from reactor spent nuclear fuel storage and transport systems

- HI-STORE:
  - Universal solution for the Nation’s SNF & HLW
  - Has strong State and Local support in NM - Consent
  - Designed to be operated with utmost ease & maximum safety
  - Provides Integral Component of SYSTEM

- Licensing effort well underway:
  - HI-STORM UMAX Certificate update – Completed August 2016
  - Site Specific License – March 2017
QUESTIONS ABOUND