

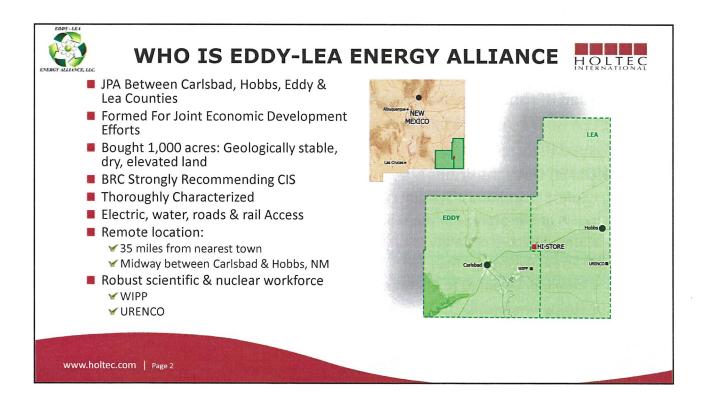


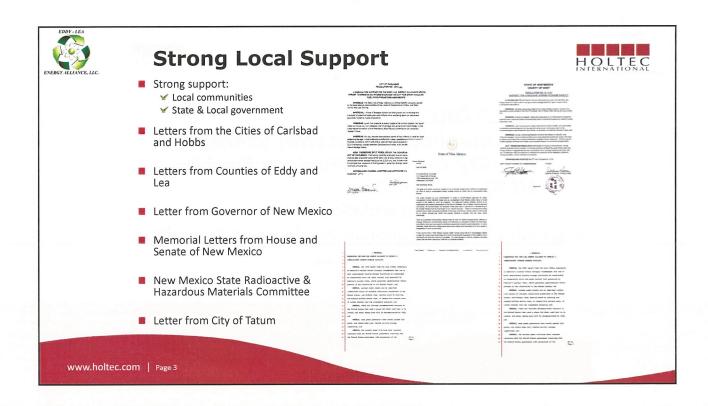
HI-STORE CISF:

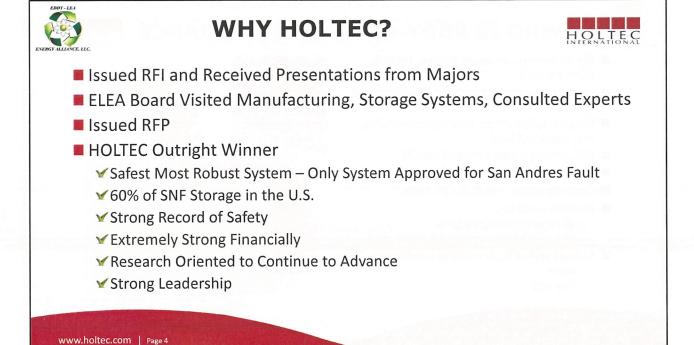
A Consolidated Interim Storage Facility for Used Nuclear Fuel & HLW

Presentation To:
Legislative Rural & Economic Development Committee
Las Cruces

By: John Heaton
Vice Chair Eddy-Lea Energy Alliance
October 11, 2018







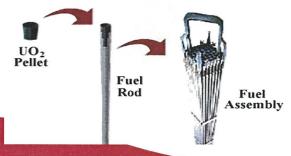


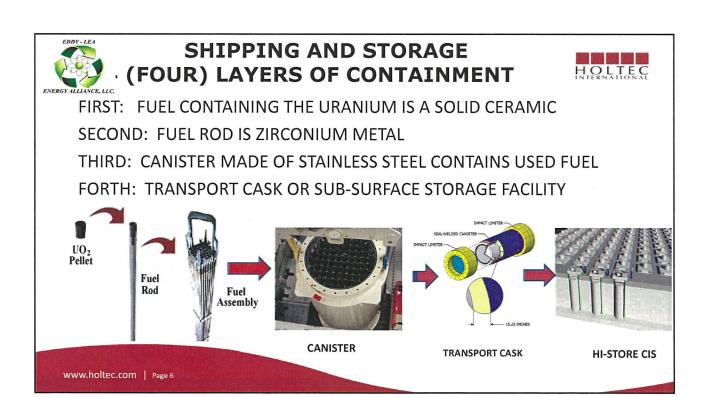
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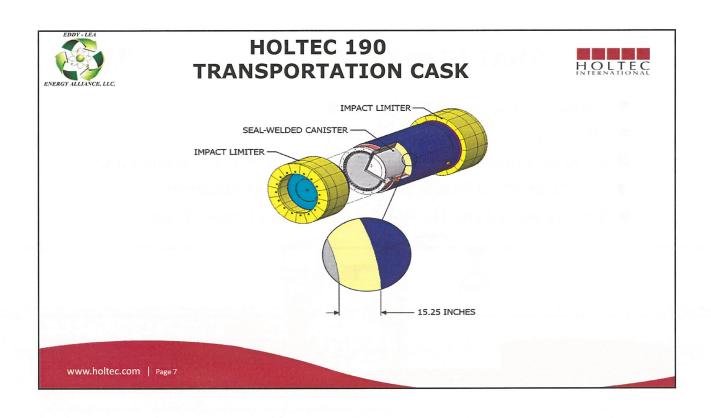
WHAT IS NUCLEAR FUEL



- Uranium 235 is Enriched to About 5%
- It Is Incorporated Into a Ceramic Pellet
- Placed into Zirconium Metal Tube about 12 feet long & welded shut
- Then Made into a Bundle of Fuel Rods Called an Assembly
- They Are Moved into The Reactor Core Where Fission Occurs











HOW RAILROADS WORK



- E.LLC 92% OF RAIL IS PRIVATELY OWNED
 - DOT, NRC, FRA MAKE THE ROUTE DETERMINATIONS

 - ✓ CAREFULLY INSPECTED BEFORE DEPARTING TO MEET STANDARDS
 - DEDICATED TRAINS WITH 7 10 CARS
 - ✓ BUFFER CAR BETWEEN ENGINE & TRANSPORT CARS & SECURITY CAR
 - ✓ WILL HAVE A SECURITY CAR WITH GUARDS AND GUNS
 - ✓ SATELLITE TRACKED AND GIVEN RAIL PREFERENCE TO DESTINATION
 - SLOWER SPEED ON ALL CLASSES OF RAIL FOR SAFETY (50 MP MAX)
 - WEIGHT IS DISTRIBUTED BY ADDING AXLES TO CARS
 - LOCOMOTIVES WEIGH THE SAME AS THE LOADED RAIL CAR

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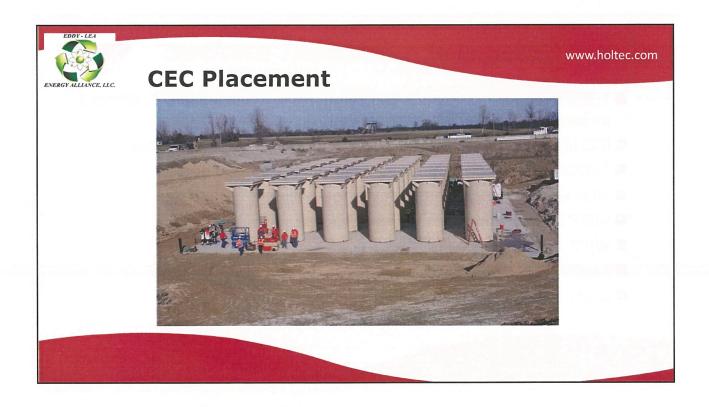
USED FUEL TRANSPORT HISTORY



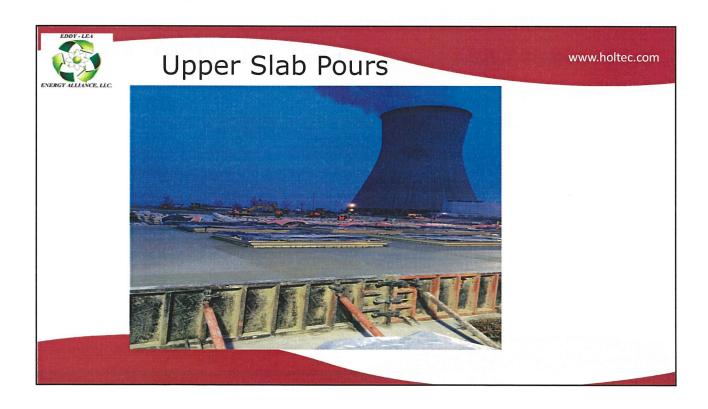
- 1,300 Used Fuel Transports by Utilities Have Occurred in U.S. Without Incident or Release
- 850 Naval Fuel Transports by Navy Without Incident or Release
- 1,000s of Warhead Shipments Between Kirkland & Pantex
- 30,000 World Wide Transport Without Incident or Release
- WIPP 12,000 Shipments Without Release
- WIPP 14 Million Loaded Miles (moon and back 28 times)
- Sandia Does Cask Integrity Testing
- Casks are Virtually Indestructible

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HI-STORE CISF Utilizes the HI-STORM UMAX Technology



- Below-grade, passive, vertical, aircooled
- Maximizes Safety & Security
- Store canisters up to:
 - √ 75 ¾ in dia. / 213 in tall
- Any US-origin commercial nuclear fuel approved by NRC:
 - ✓ Packaged in dry storage canisters
 - ✓ Stored in fuel pools
- Operational Advantages
- No repackaging required



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WHAT ARE STATE & AREA BENEFITS?



- ☐ INCENTIVE PAYMENTS:
- ☐ INCENNTIVE PAYMENT IS TARGET OF GROSS REVENUE
 - □ESTIMATE 25% LOCAL; 75% STATE FOR ROADS
- ☐ \$2.4 BILLION CAPITAL INVESTMENT
- ☐ 215 HIGHLY PAID JOBS
 - **✓**100 CONSTRUCTION WORKER FOR 10 YEARS
 - ✓ 100 TECHNICAL RAD TRAINED MATERIAL HANDLERS & SECURITY FORCE
 - 10 RAIL CAR AND TRANSPORT CASK MAINTENANCE
 - 5 CENTER OF EXCELLENCE FOR HOLTEC WORLD WIDE TRAINING
 - √15-30 SILO CONSTRUCTION WELDERS AND FABRICATORS
 - ✓ OTHER POTENTIAL SPIN-OFFS (Research: Aging, Science, Heat Transfer, etc)

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HI-STORE Site-Specific License Timeline



■ Application submitted to USNRC: March 2017

■ Application accepted by USNRC: March 2018

■ NRC public meetings (phone & in NM): April – May 2018

RAI #1 received (partial): September 2018

■ Adjudicatory process closed: September 2018

■ Holtec answers to petitions submitted: October 2018

■ RAI #2 (if needed): February 2019

■ Draft EIS: June 2019?

Final EIS: Early 2020

■ NRC completes review: July 2020

■ Accept First Shipment: 2023

Construction start:



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FINAL THOUGHTS



- THERE WILL BE A CONSOLIDATED INTERIM STORAGE FACILITY!!
- YOU CAN HAVE IT IN NEW MEXICO OR TEXAS?
- IF IN TEXAS:
 - ¥ EUNICE 2 MILES AWAY, HOBBS 15 MILES & JAL 15 MILES
 - ✓ RAIL ROUTE THROUGH JAL & EUNICE
 - ✓ NEW MEXICO HAS ALL THE EMERGENCY RESPONSE RESPONSIBILITY 37 miles to Andrews

2020

- ✓ TEXAS GETS ALL THE BENEFITS & NEW MEXICO HAS ALL RESPONSIBILITY
- WIPP & URENCO HAVE BEEN GREAT PROJECTS FOR OUR AREA
- RURAL AREAS HAVE TO FIND THEIR NICHE
- RURAL AREAS DON'T TELL OTHERS WHAT BUSINESS TO PURSUE
- NO INTERACTION WITH WATER OR O&G INDUSTRY
- VERY BENIGN NO PUMPS NO MOVING PARTS GETS COOLER EVERY DAY.

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