



AMERICA'S NUCLEAR SOLUTION

**WCS Consolidated Interim
Storage Facility**

What Have We Learned?

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Overview

- WCS in Andrews County – An Established Site
- Application Status Update
- Current Timeline
- What Have We Learned?



WCS in Andrews County

- Site includes ~14,000 acres (~23 square miles)
- Licensed by Texas Commission on Environmental Quality as an Agreement State
- Includes Rail access for large components, and large scale D&D projects



WCS in Andrews County

- An Established Site with ongoing nuclear operations
- Currently operating the most robust LLRW disposal facilities in the U.S.
 - Texas Compact and Federal Waste Facilities
 - Intermediate Depth Disposal
 - Atop ridge of 600 feet of Red Bed Clay
 - LLRW placed Modular Concrete Canisters, grouted and precisely positioned in disposal cell
 - RCRA Cell – Exempt Waste Disposal



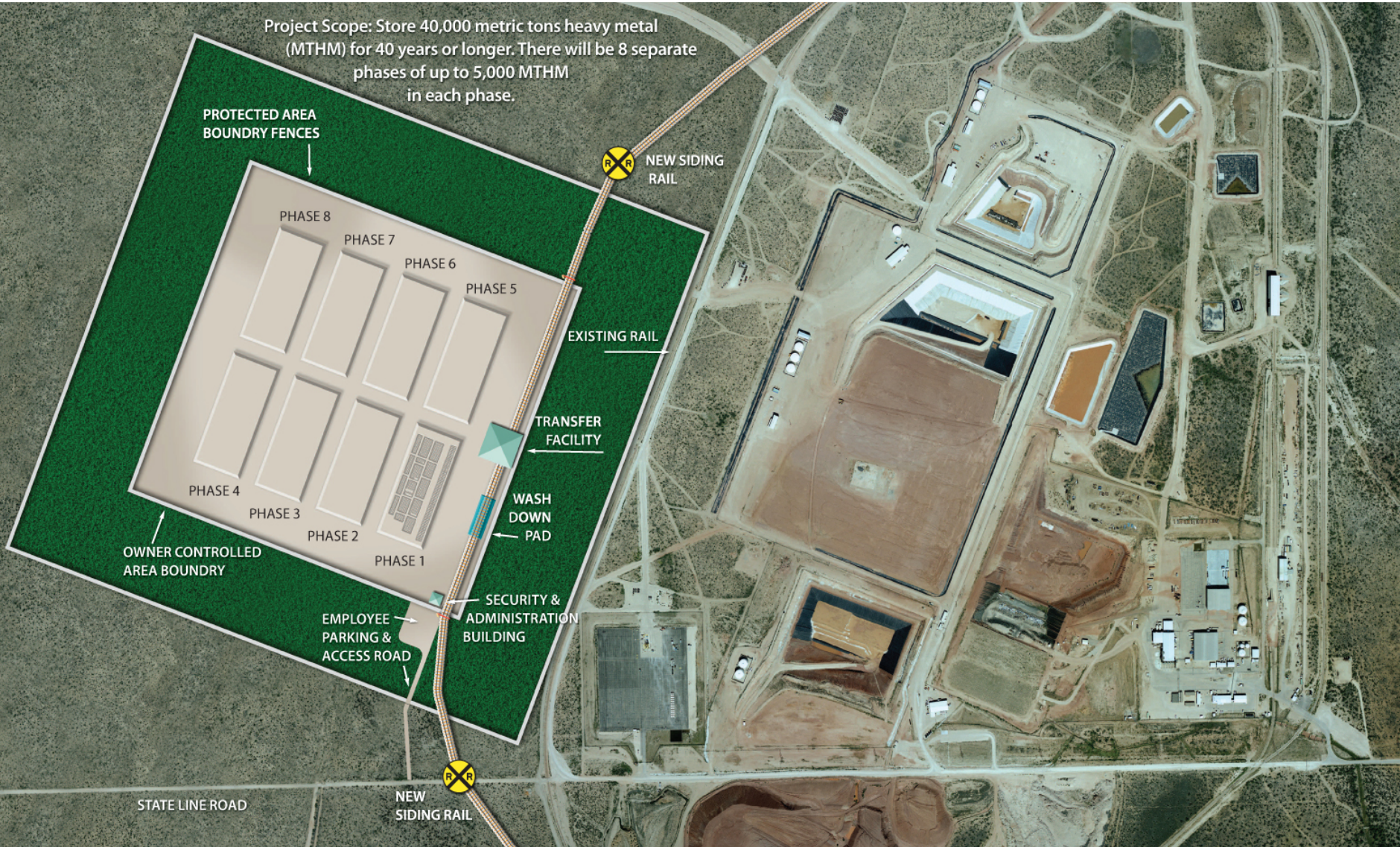
WCS in Andrews County

- Operations include Irradiated Hardware
 - Dose rates as high as 20,000 rem/hr on contact,
 - Collective dose of only 50 mrem for receipt to disposal
- Radiation safety, environmental monitoring, security and other functions are ongoing
- Strong community support



CISF Layout at WCS Site

Project Scope: Store 40,000 metric tons heavy metal (MTHM) for 40 years or longer. There will be 8 separate phases of up to 5,000 MTHM in each phase.



CISF Scope

- Environmental impacts have been analyzed with storage of 40,000 MTHM for 40 years
 - 8 separate phases; storage of up to 5,000 MTHM in each phase
- Designed for our partners' storage systems
 - AREVA NUHOMS®
 - NAC International



CISF Scope

- Continuing to have discussions with DOE on how CISF intersects with their UNF strategy
- Prioritizing shutdown sites
 - Additional systems and sites to be added in future License Amendments
 - Phase 1: Storage of UNF from over 9 shutdown/decommissioned NPPs



Focus of CISF Phase 1

UNF & GTCC from ...

NAC International

- Maine Yankee (PWR)
- Connecticut Yankee (PWR)
- Yankee Rowe (PWR)
- La Crosse (BWR)
- Zion (PWR)

- Red = stranded (ISFSI only) site from 2012 BRC report

AREVA NUHOMS

- Rancho Seco (PWR)
- SONGS Unit 1 (PWR)
- Millstone Unit 1 (BWR)
- Oyster Creek (BWR)
 - S/D sched. 2019
 - Fuel BU < 45 GWd/MTU

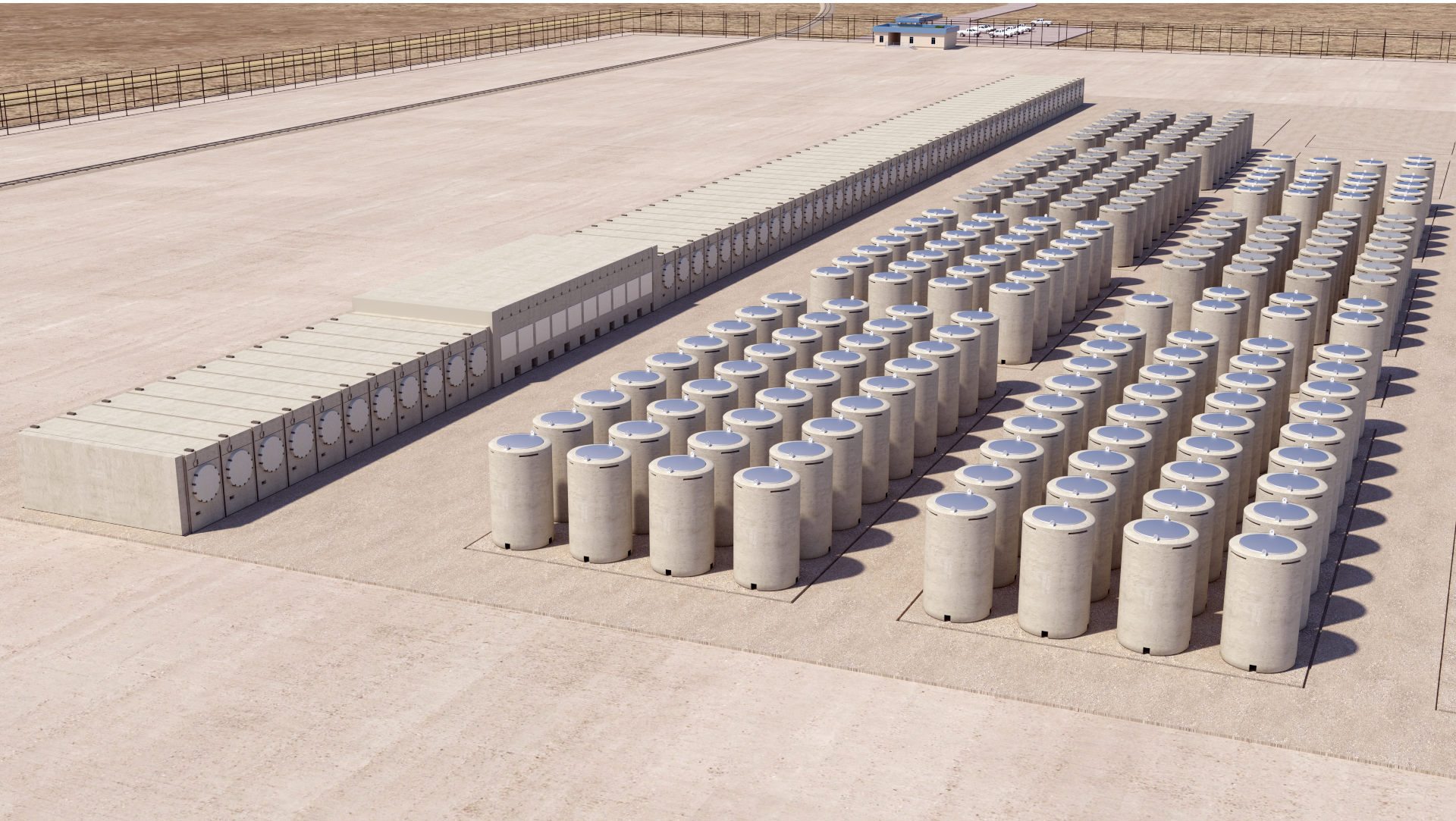


Focus of CISF Phase 1

- Initial License Application will address 80% of UNF and GTCC waste at BRC “Stranded” Sites
- AREVA Cask Systems
 - NUHOMS MP 187
 - Standardized NUHOMS
 - Standardized Advanced NUHOMS
- NAC International Cask Systems
 - NAC-MPC
 - NAC-UMS
 - MAGNASTOR



View of Deployed Systems for Phase 1



Application Status Update

- Revision 1 to the Application
 - To Be Submitted 15 March
- Changes to the SAR based on RSI responses
 - Principal effort directed toward facility descriptions.
 - Additional work on referencing
 - 72.18, “clear & specific”
- Aside from RSI-related changes, only editorial or corrections made.



Current Timeline

- April 2016 – License application submitted
- November 2016 – Commencement of ER
- January 2017 – LA accepted by NRC for docketing
- May (mid) 2017 – ER RAIs issued; responses mid-July
- July 2017 – SAR RAIs issued; response mid-Sept
- Mid 2019 – Licensing Decision
- 2021 – Operations commence*



Current Timeline

- The reason for the “*”
 - WCS LA specifies DOE takes title of SNF at the commercial nuclear reactor sites and responsible for its transport to the CISF.
 - WCS proposed LC – DOE would be contractually obligated to fund the operations of the CISF.
 - LC stipulates that the contract must be in place prior to commencement of operations at the CISF.
- Comply with statutory requirements



What Have We Learned?

- Although there are manageable risks ...
- There are inherent advantages to a Private Entity taking on the Front-End activities of Licensing a CISF
 - 40,000 MTHM CISF can de-inventory approx. 51 shutdown sites
 - Significant “bow wave” of plant closures starting in 2029
 - Cost-effective solution that reduces overall Federal Government expenditure by billions of dollars
 - Reduces U.S. Taxpayer liability by **\$5.4B+**?
 - **\$1B+** benefit to communities hosting shutdown sites.



What Have We Learned?

- Opponents don't change their talking points.
 - Rewinding the tape
- Public Attention is Fleeting
 - 7 seconds
- Changing public opinion
 - = Consumer opinion
- Swaying public opinion
 - Swaying Customer Opinions = Creating Customers
- Use the “Business Is Two Things” Approach





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QUESTIONS?