Consolidated Interim Storage
November 2019
Spent Nuclear Fuel in the US

- The Nuclear Waste Policy Act requires the US Government to remove and dispose SNF from the nation’s Reactors.
- To date, little SNF has been picked up by the government.
- This resulted in 81 Interim Storage facilities across the nation.
- Each Facility at a shut down reactor costs ~10M per year to operate.
- Consolidating the SNF will save the US taxpayers billions of Dollars over the next 50 years.
Consolidation Benefits

- Elimination of multiple ISFSIs at Shutdown Reactors
- **Complementary** to a national repository
- Investment in safety, security and maintenance
- **Elimination of management costs** and support functions for multiple ISFSIs
- Communities at shutdown sites will be able to repurpose or monetize property
- Economic benefits to hosting CISF community
- Transportation assets can be re-used for transport to final repository
- **Minimize Taxpayer liability** for dry fuel storage

**CISF reduces both Cost and Risk**
ISP’s CISF Project

- Interim Storage Partners LLC, a JV between WCS and Orano, established in 2 QTR 2018.
- **NAC International and Orano TN** are the DFS Technology providers.
- Project Environmental impacts analyzed with storage of **40,000 MTHM in canisterized storage systems**.
- 8 separate phases; storage of up to 5,000 MTHM in each phase.
- **License for 40 years** with renewals of up to 40 years each.
- Initial SAR includes selected NAC International and TN NUHOMS® canisterized storage systems which prioritize shutdown sites.

Phase 1 will be populated with Fuel that is or will be ready for near term Transportation to West Texas
Licensing Process

NRC License Application Review Process

- Applicant Submits License Application
- NRC Decide Whether to Accept Application for Review
- NRC Dockets License Application
- NRC Begins Safety Review
- NRC Begins Environmental Review
- NRC Issues Safety Evaluation Report
- NRC Issues Environmental Impact Statement
- NRC Adjudicatory Hearings
- ASLBP* Issues Findings: NRC may Issue License
- NRC Review to be complete in May 2021

ASLBP*: Atomic Safety and Licensing Board Panel
• License application **submitted on April 28, 2016**.
• Completed RSI responses July through Dec 2016
• The NRC started review of the Environmental Impact Statement (NEPA) during the review of the RSI responses.
• **NRC Accepted for Review in 1 QTR 2017**
• Review Suspended in 1 QTR 2017
• Restart requested **June 8, 2018**.
• NRC meeting to discuss the Emergency Plan, August 29.
• Security RAIs received in Nov 2018
• First part of RAI round 1 received Nov 2018,
• Part 2 of 2 of Round 1 RAIs received March 2019
• Public meetings with NRC to discuss RAI responses April 2019
• Environmental RAIs received April 2019
• Part 4 Coming soon

**RAIs responses underway. NRC Review scheduled to be complete - May 2021.**
License Application

Priority on currently licensed systems for shutdown sites:

**NAC International**
- Maine Yankee
- Connecticut Yankee
- Yankee Rowe
- La Crosse
- Zion

**Orano TN NUHOMS®**
- Rancho Seco
- SONGS Unit 1
- Millstone Unit 1
- Oyster Creek* (S/D scheduled 2019)

* Fuel burned less than 45 GWd/MTU

Indicates a “stranded” (ISFSI only) site identified in the 2012 Final Report of the “Blue Ribbon Commission on America’s Nuclear Future” (BRC)

Initial license application targets shut down reactors with fuel that is ready to transport today.
Request for Additional Information (RAI) Round 1 Part 1

• ISP has received 81 RAIs that make up RAI Round 1, Part 1
• A few Part 1 RAI held over to Part 2 due to overlap in NRC requests
• Balance of the responses submitted

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Request for Additional Information (RAI)  
Round 1 Part 2 and Part 3

• Part 2 of Round 1 RAIs received March 2019.
• Part 3 ER RAIs received in April 2019
• Part 2 and 3 RAI responses will be submitted beginning this fall, Complete in January 2020.

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CISF Site Overview
Pad Layout for CISF

Conceptual Drawing

Security and Administration Building

New Rail Spur

Cask Handling Building
Thorough Environmental Characterization

- Environmental Impacts have been extensively analyzed in the region.
  - TCEQ conducted environmental reviews supporting issuance of LLW licenses.
  - NRC prepared an EIS for adjacent URENCO USA.
- Proposed approach ensures cumulative environmental impacts are analyzed.
- The CISF site is not located near any Aquifers
Rail Infrastructure

- The ISP site already has the rail infrastructure to support transportation of heavy loads.
- Rail lines upgraded to support shipments of steam generators 204 MT (450,000 lbs) to the WCS disposal facility, exceeding the capability necessary for SNF Transportation.
- Four steam generators were barged to Houston, TX, transferred to rail line and transported to WCS.
- All SNF shipments will be arrive by rail

Rail lines to the site are ready for heavy loads – no need for new rail lines off property.
WCS Visitor Center Grand Opening

• Opened June 5, 2018, for community outreach in Andrews, Texas
• InterimStoragePartners.com (English and Spanish translation)
• Holding regular community tours of the WCS site with focus on ISP
• Follow us on twitter, @ISP Nuclear