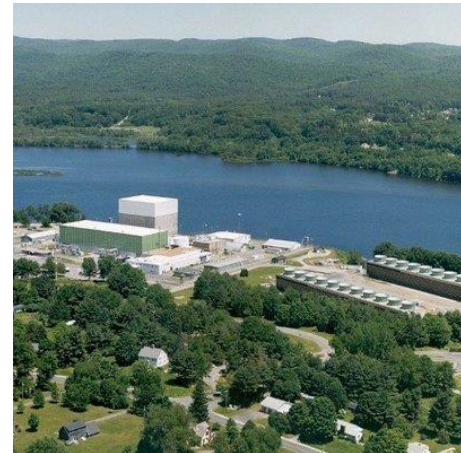




Texas Low-Level Radioactive Waste Disposal Compact Commission

October 5, 2017





Introductions

Joseph R. Lynch
Sr. Manager, Government Affairs
Decommissioning – EWC

Michael Pletcher
Radiation Protection Manager
Entergy Nuclear Vermont Yankee



Decommissioning Project Status

VY Decommissioning Update

- Dry Fuel Storage Project
 - ISFSI Pad Construction
 - Construction of second pad started on March 13th
 - Second ISFSI pad was declared operational on August 14th
- Dry Fuel Loading
 - Cask loading initiated week of June 11, 2017.
 - Thirteen (13) casks have been loaded in 2017 with a total of 26 casks loaded and stored on the ISFSI pads.
 - Target all fuel transferred to the ISFSI by end of 2018, pending NRC approvals.



VY Decommissioning Update (Cont'd)

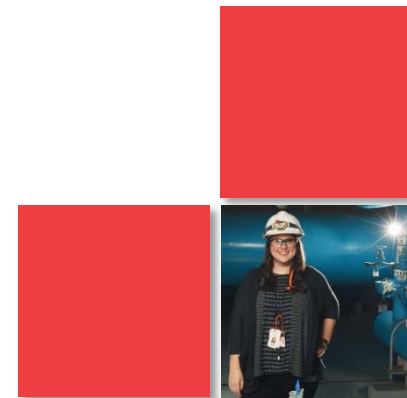
Completed 2nd ISFSI Pad



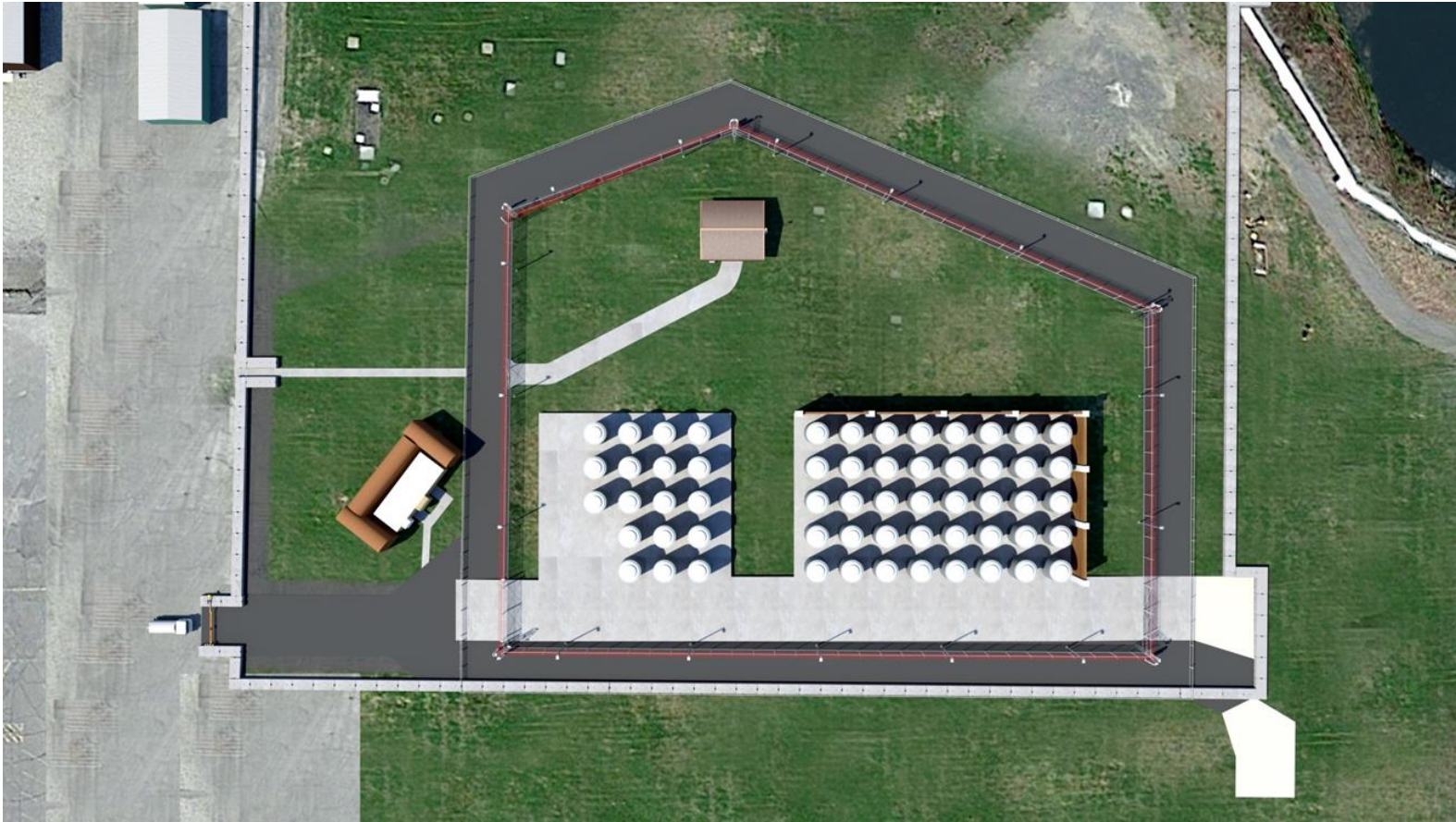
WE POWER LIFESM

Reduction of Site Protected Area

- Background
 - After all fuel is transferred to dry storage, the Protected Area (PA) will be reduced – “ISFSI PA”
 - Protected area reduced to ISFSI to safeguard dry fuel systems
 - Installation of new vehicle barrier system, perimeter and security fences, cameras, lighting, Central Alarm Station (CAS) building
- Two primary benefits of reducing PA:
 - Access to decommission areas of the site that are outside of the PA
 - Cost reductions to optimize the decommissioning trust
- Implementation is contingent on NRC approval of proposed changes to our Security Plan with a targeted completion by the end of 2018.



ISFSI Protected Area Rendering





Proposed VY Sale and Accelerated Decommissioning

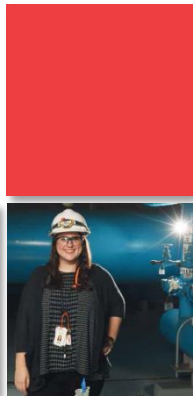
Potential Sale of ENVY to NorthStar

- Sale to a specialty Demolition & Decommissioning firm
- Transaction is contingent upon a number of conditions, including:
 - Successful regulatory approval by USNRC and PUC
 - Entergy loading all spent fuel into dry casks by 2018
 - PUC adopting proposed Site Restoration Standards
- NorthStar will:
 - Provide financial commitments that will assure completion of decommissioning
 - Initiate onsite work by 2021
 - Decommission and restore nearly the entire VY site by 2030



Federal and State Approval Processes

- Nuclear Regulatory Commission: Federal agency that must approve transfer of the VY Station NRC operating license and transfer of control of Entergy Nuclear Vermont Yankee (ENVY) from Entergy to NorthStar
 - Will review decommissioning plan, financial assurances, technical capabilities
- Public Utility Commission: State agency that must approve the sale of ENVY and the transfer of the Certificate of Public Good to operate and decommission the VY Station to NorthStar
 - Will review several factors to determine if sale is in the public good
 - Will also set site restoration standards that are a material part of the transaction



NRC License Transfer Application Update

- In the event the proposed transaction between ENVY and NorthStar is not approved by either the USNRC or the Vermont PUC, the schedule will be as submitted in the Post Shutdown Decommissioning Activities Report (PSDAR).

Decommissioning Activity	Start	End	Approximate Duration (Years)
Preparations for Dismantling & Decontamination (D&D)			
Preparation for D&D	2068	2069*	1.5
Active D&D			
Large Component Removal	2069	2070*	1.3
Plant Systems Removal & Building Decontamination	2070	2073*	2.5
License Termination	2073	2073*	0.7
Site Restoration			
Site Restoration	2073	2075*	1.5
Total – Shutdown to Completion of License Termination	–	–	59





Waste Stream Information

Waste Stream Information

- Entergy maintains ownership of Vermont Yankee
 - The quantity of radioactive waste generated will be minimal.
 - Waste would be limited to a small quantity of filters and demineralizers used to process water from the spent fuel pool – approximately 400 cubic feet.

Waste Stream Information

- Ownership of Vermont Yankee is transferred to Northstar.
- Decommissioning would commence as soon as possible.
- The waste that would be sent to the compact facility would be completed within 3 to 4 years.

Waste Stream Information

Waste	Waste Class	Estimated Volume
Reactor Vessel/components/ irradiated hardware	Class A, B, C	3,000 Cu. ft
Resins	Class A, B, C	1,125 Cu. ft
Filters	Class A, B, C	375 Cu. ft
High dose rate Class A waste that cannot be disposed in the TSD Facility (>75 mrem/hr on contact unshielded)	Class A	79,000 Cu. ft



