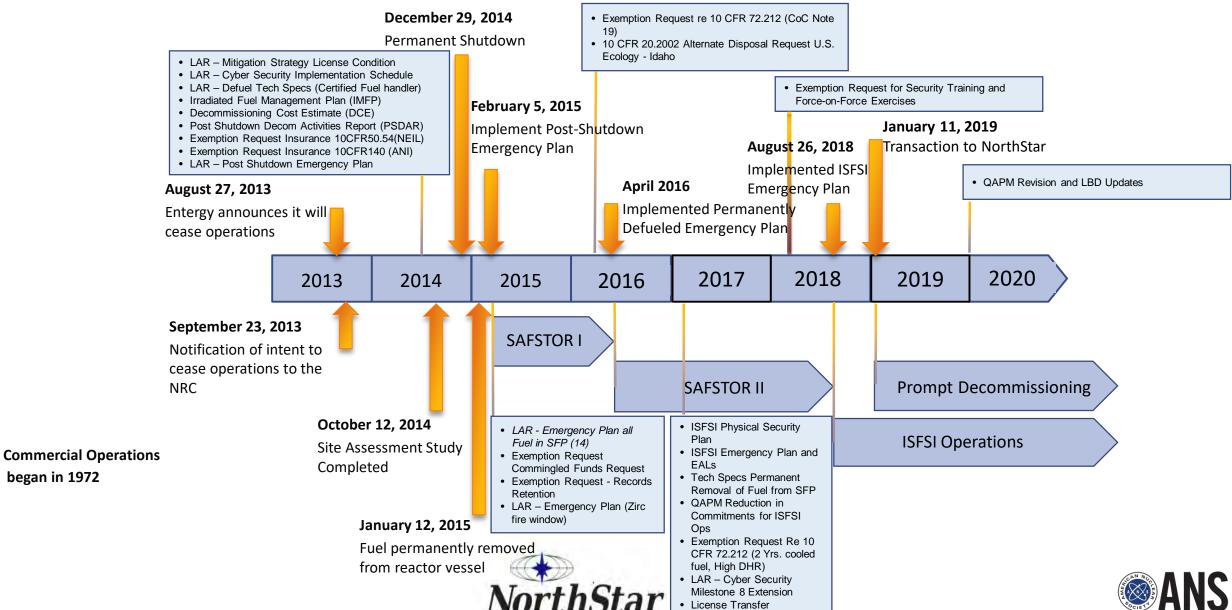






Vermont Yankee Shutdown/Decom Timeline



Application

VY Pre-Transaction Work / Preparation / Schedule adjustments

- Vermont State and Local Stakeholders/Intervener involvement necessitated significant effort by NorthStar to gain collaborative approval for sale/license transfer of VY from Entergy to NorthStar (ref MOU's/VT Docket 8880)
- Original Transaction target date slipped by approximately 4-5 months awaiting approval by VT State PUC
- Site configuration required multiple adjustments for logistical preparations to accommodate efficient bulk material transportation and equipment interim storage/laydown areas (VY Protected Area is a small footprint)
- Schedule compression for Dry Fuel Storage campaign/ISFSI construction/commissioning to meet transaction timing target challenged other Pre-Transaction Prep Work (Primarily the Spent Fuel Pool rack removal/cleanout and demobilization of RFF from DFS campaign)
- Transfer of all permits (environmental/operating/discharge, etc.) with transaction arrangement was complex and took significant effort/coordination with associated State Agencies





Refuel Floor Preparation & Infrastructure adjustments

Empty & Clean Spent Fuel Pool



Demo of Office Building



HTS construction/pad



Custom Box storage area



NorthStar

Rail Refurb/Spur Addition



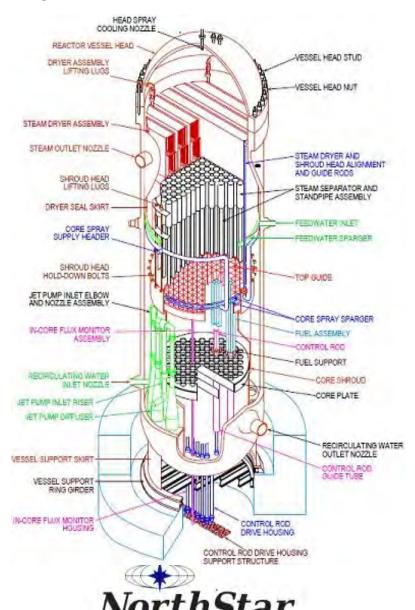
Temp Structure Erection





GE BWR (3/4) Reactor & Internals Removal

- Detailed 3-D modeling and surveys conducted in containment of reactor and associated components allowed optimization of cutting and packaging plans
- Specialized tooling of multiple varieties have been developed and proven for optimizing cutting process
- Cutting and packaging work broken into "sequences" started at the top of the vessel and working downward



- 17 Custom Boxes fabricated in 11 different sizes for VY project
- Precise geometries are obtained during cutting
- Most cutting operations performed underwater
- Many components were already removed during Safstor Preps (fuel, control rods, instrumentation, etc.)



Reactor Vessel Segmentation Update

Reactor Head DONE Steam Dryer DONE Steam Separator **DONE** Shroud Head DONE Feedwater Sparger DONE Top Guide (Upper Grid) DONE **Guide Tubes DONE** Core Plate DONE Shroud Cylinder DONE Jet Pump Assemblies DONE



Next Steps

Final packaging of Jet Pump Diffusers ongoing.

Preparations commenced for:

- 1. Reactor Vessel drain down
- 2. Cutting of Nozzles
- 3. Reactor Vessel Segmentation





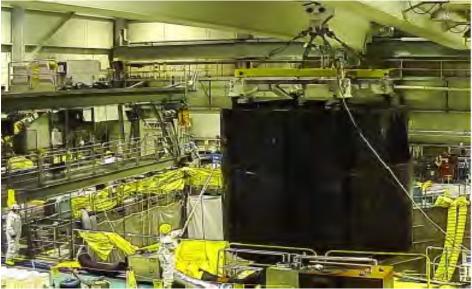


Segmentation of VY Reactor and Internals



N-CORE FLUX MONITOR -HOUSING

> CONTROL ROD DRIVE HOUSING SUPPORT STRUCTURE



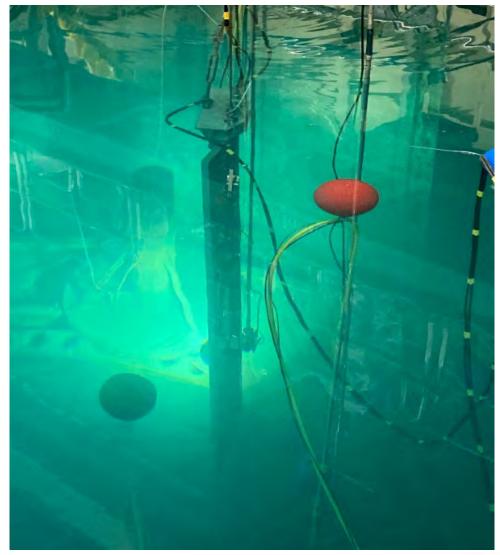








Core Shroud Segmentation / Underwater Operations



Shroud Segment (more than 13ft tall)









Reactor (Jet Pump) Segmentation Operations



Jet Pump Diffuser removal

Jet Pump D/P Instrument Piping removal







Reactor Vessel Segmentation Operations



Jet Pump Inlet Riser Pipes are 13 feet long and segmented with specialty cutting tools





Refuel Floor Activities

Demobilizing to make room for next sequence activities



Removing the racks that once held Core Shroud segments in the Spent Fuel Pool, as they are no longer needed



Racks decontaminated and packaged for shipment



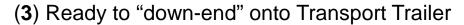
Cask Transfer Operations

(1) Out of the Reactor Cavity/SFP



(2) Down from the Refuel Floor











Cask Transfer Operations

(4) Moving loaded Transfer Trailer with the "Tugger"



(5) Transfer into the HTS (Storage Vault)





Dismantling the Steam Plant







Steam Plant Piping & Component removal







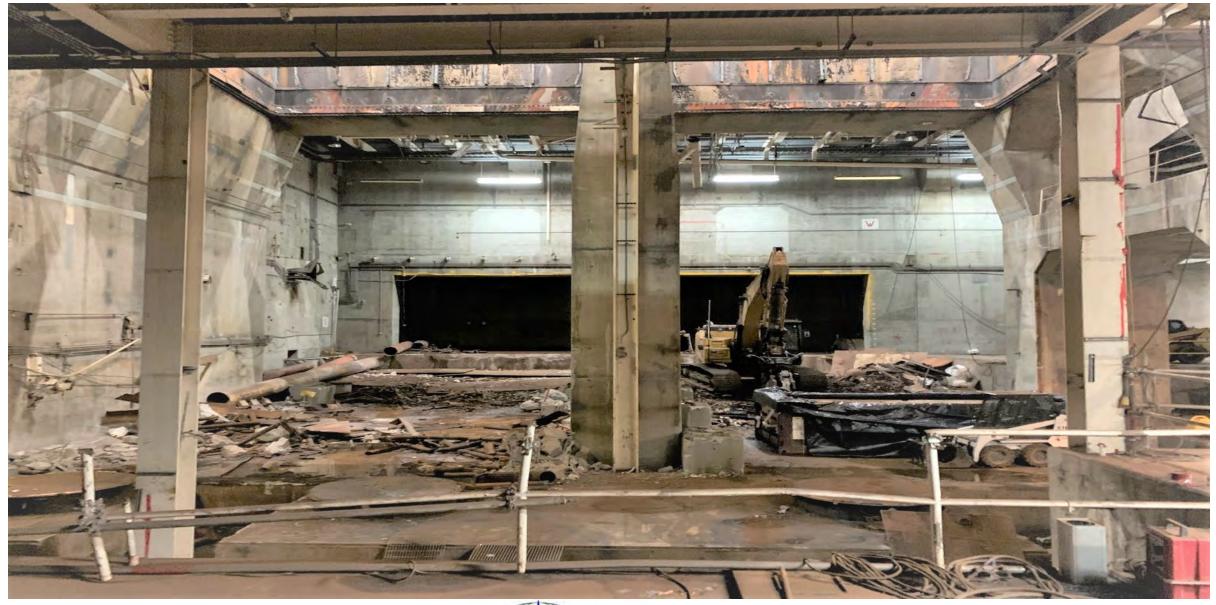
Removing Condensate Demineralizers







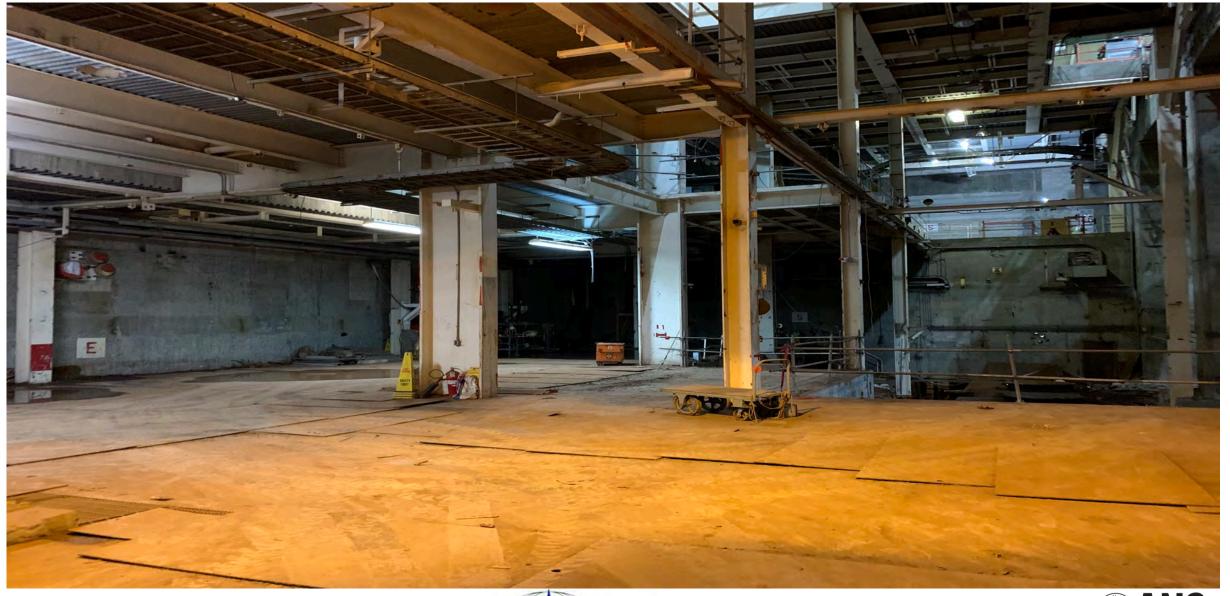
Main Condenser Demo nears completion







Turbine Building (Heater Bay) Empty







Epoxy Floor Coating Removal in Turbine Building







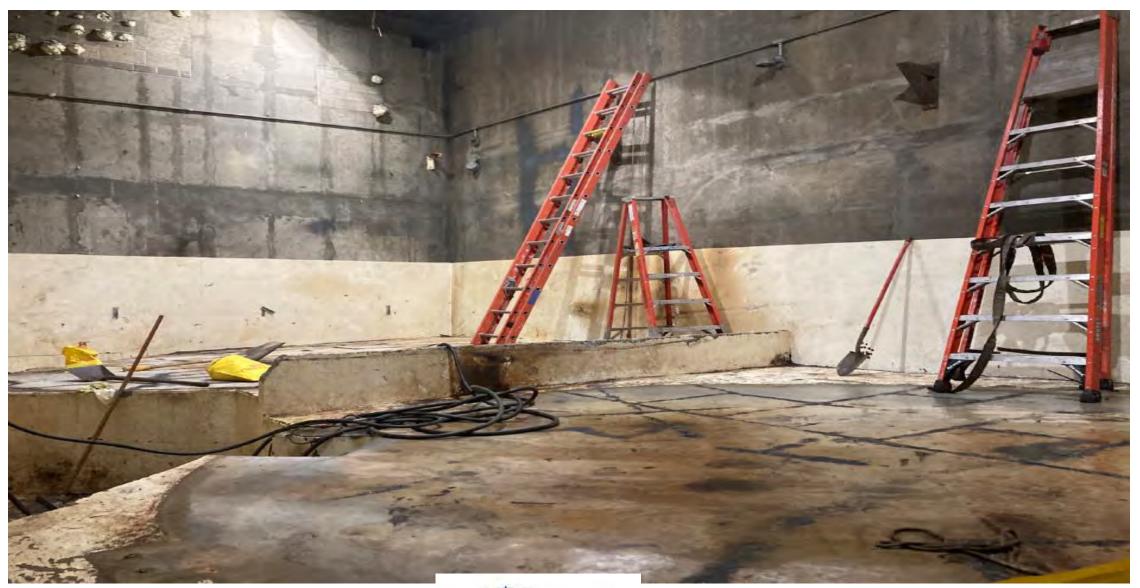
Creating new access hatchways for RadWaste Bldg Demo







RadWaste Bldg Demo/Tank Removal



NorthStar



Demo for Warehouse/Office & AOG (re-cap from 5/4/20)







Warehouse and Maintenance Office Structure Demo







Warehouse/Maint Office Structure Debris Removed







AOG Structure Demo







AOG Structure Demo

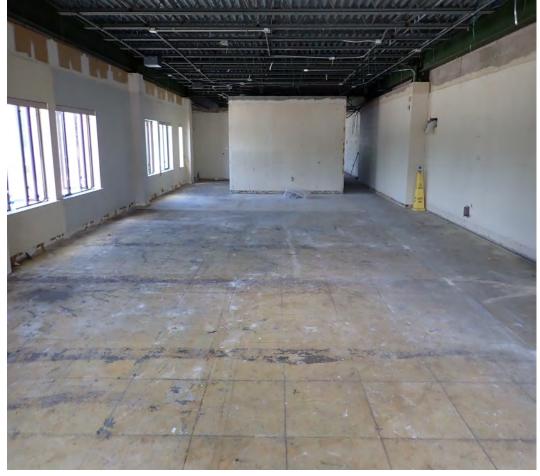






Admin Building Demo Preps



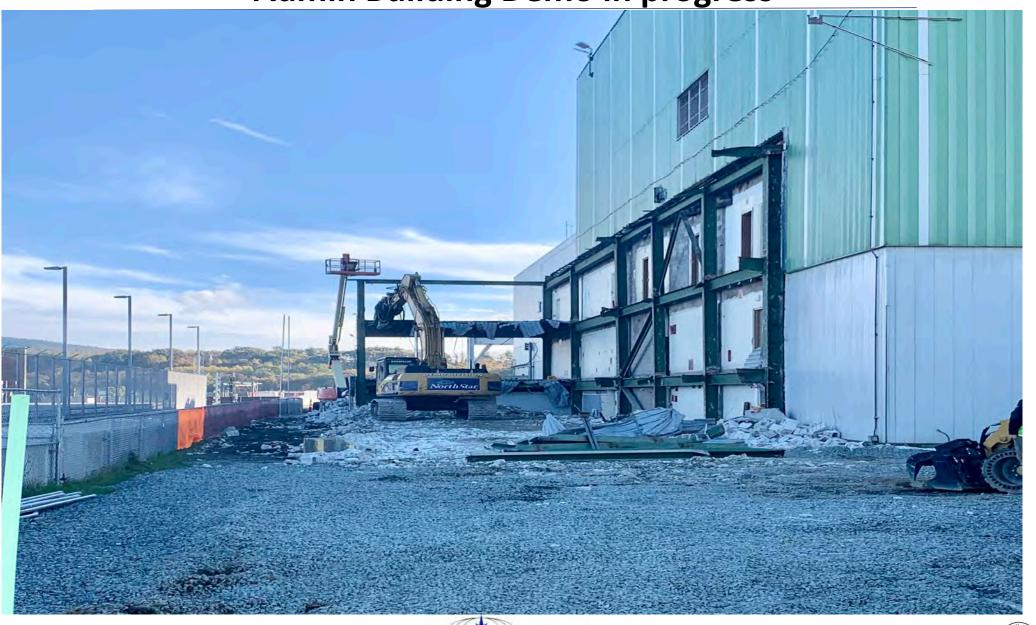


Relocation of personnel, removal of all furniture, materials, universal waste, & structural separation from service building in preparation for demolition





Admin Building Demo in progress







500,000 gal Condensate Storage Tank Demo







Stack Demolition



(Zooming in)



7/13/21
completed
Stack Demo
from 100' to
ground with
NorthStar HiReach
Excavator





Other Infrastructure Adjustments











NorthStar

Transportation of waste to WCS in Texas











Shipping and Material Volumes as of 9/20/21

- Currently shipping about 3 rail cars per week to WCS (106 shipments consisting of 89 railcars and 17 trucks shipped YTD / about 13 per month)
- Total Number of Shipments to Date: 320
- Total Volume 677,300 ft³ (25,086 cyd)
- Total Weight 34,520,000 lbs (17,200 tons)
- Total Activity 25,850 curies





NorthStar Target Zero (Accidents) Do It Right. Do It Safe.

>1,100,000 hours worked (and counting) at Vermont Yankee without a Lost Time Accident

No Regulatory violations (cited or non-cited) have occurred since ownership transfer

NorthStar is highly committed to maintaining a strong bias for conservativism through our Target Zero approach to Nuclear, Radiological, Industrial, and Environmental Safety.

Decommissioning is a creative and rapidly changing business.

NorthStar is committed to continuous learning:

- We realize the value of partnering early with utility/host sites to conduct effective due diligence and create a mutual success path.
- ➤ We embrace the integration of a small knowledgeable workforce from host sites to leverage talent and sustain momentum from Shutdown/Defuel/DFS into Decommissioning.
- > We actively engage ALL stakeholders early in process to develop trust, confidence, and mutual success.



