NorthStar VTY Decommissioning NorthStar

NDCAP Update 09/23/2024

Vermont Yankee Nuclear Power Station

1.2	Read and a second se	21. New fuel storage vault	41. Intercept valve	61. Receiver
	Torus	22. Overhead crane	42. Moisture separator	82. Elevator
	Main steem lines		43. Main condensets	63. Turbine
	Recirculation pump	23. Diological shield well	44. Cooling water recirculation	64. Rad was
4	Inboard main steam leolation valve	24. Steam dryer		
	Outboard main steam isolation valve	25. Steem separator	45. Turbine oil tank	65. Condem
	Downcomers	26. Fuel assemblies	45. Emergency diesel generators	66. Centrilu
- 2	ACCESSION OF A CONTRACT OF A C	27. Reactor vessel	47. Overhead crane	67. Cask 18
	Shield plug	28. Vessel head	48. Condensate storage tank	68. Spent ru
8.	Dryen/separator storage pool		49. Feedwater pump	69. Waste sl
9.	Reactor building cooling water heat exchangers	29. Main steem outlet	S0. Control room	70. Travelin
10.	Reactor building cooling water pump	30. Recirculation water outlet		71. Sample
	Reactor water cleanup heat exchanger	31. Uninterruptible power supply	51. High pressure heaters	
	Reactor water cleanup pump	32. Main transformer	52. Main stop valve	72. Surge to
	Vital AC motor generator set	33. Ring header	53. Turbina lub oli storage tank	73. Dischar
		34. RHR service water pump	54. Excitation cubicle	74. Low pre
	Recirculation motor generator set	35. Recirculation inlets	55. Main generator leads	75, Intake st
15	Fuel pool (spent fusi storage)		56. Make-up demineralizers	76. Advance
16.	Spent luci rock	36. Manifold		77. West co
17	Hydrautic control units	37. Feedwater iniet	57. House heating boiler	
	Standby gas treatment	38. Generator	58. Clearwell	78. East co
	Primary containment well	39. Low pressure turbine	59. Acid storage tank	79. Spray p
		40. High pressure turbine	st. Caustic storage tank	-60. Wereho
- 20	Refueling bridge	and the businesses and the		

NorthStar Nuclear Decommissioning Company, LLC

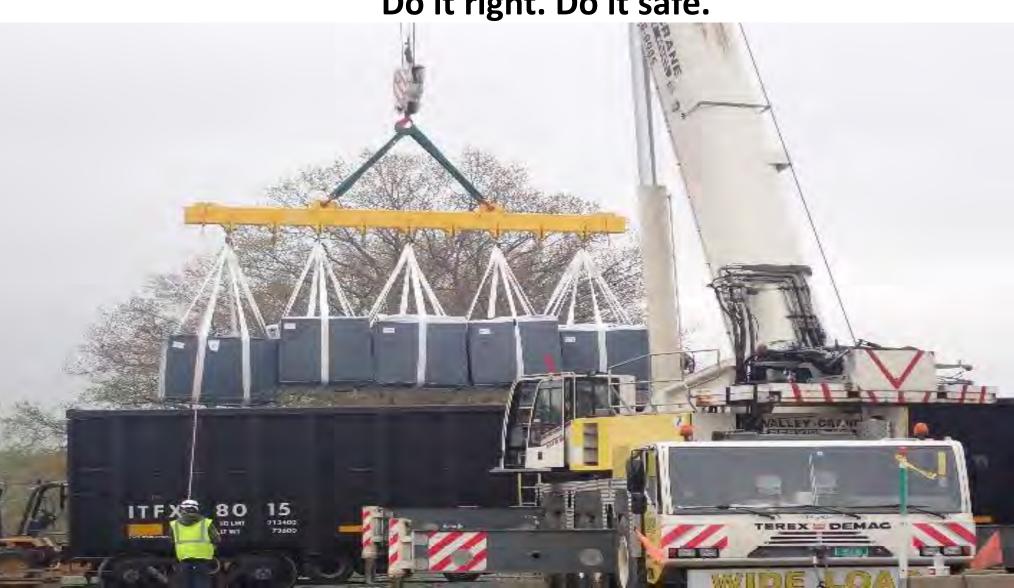
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Simple Priorities NorthStar

SAFETY with all we do: Target Zero (Accidents)

Radiological, Environmental, Industrial, Nuclear

Do it right. Do it safe.





Project Schedule – Overview (Re-Cap)

														al Site ease		License Termination (ISFSI) Target 12.31.52)
	2020 202		2021 2022		2023		2024		2025		2026		2027 thru 2051	2052		
Spent Fuel Management																
Site Restoration & Final Site Survey																
Large Component Removal																
Reactor Vessel & Internals																
Condenser																
Large Pumps & Motors (Circ H2O, Recirc, etc)																
Main, Start-Up & Aux Transformers																_
Decontamination & Demolition																Final Site
Asbestos& Lead Paint Removal										-						Restoration &
Security Structures and Equipment																License
Turbine Warehouse																Termination
Aog																-
Rotors and Storage Structures																-
Stack																-
Intake																-
Reactor Building																-
Admin Building																
Control Building																
Rad Waste																
Discharge																
Service Building																



SFP Media Blasting





SFP Media Blasting



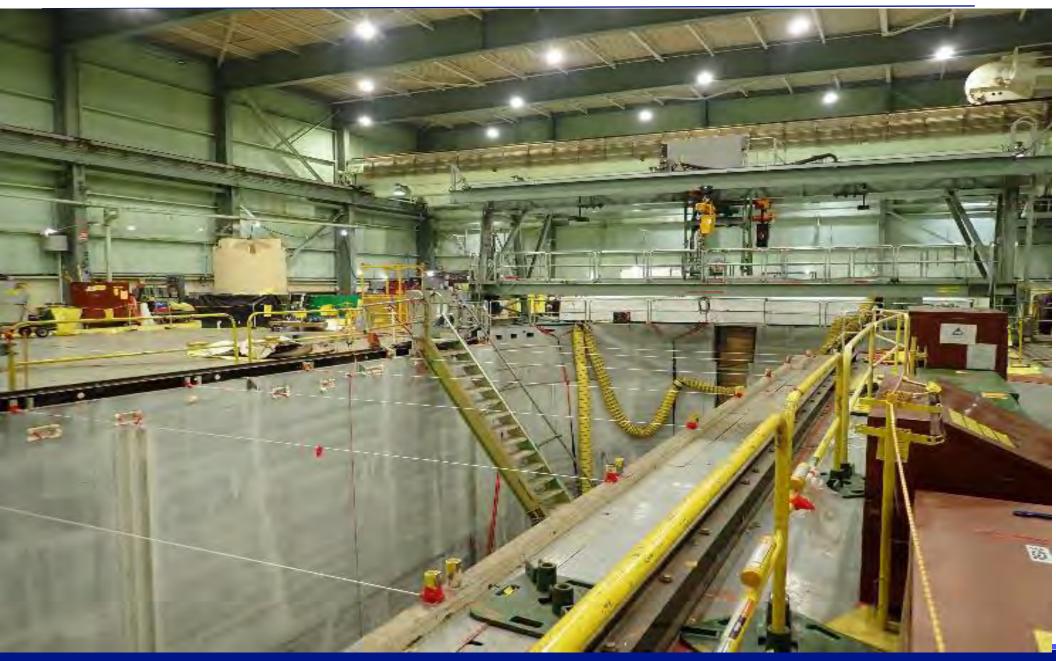


Final Cleaning of SFP after Media Blasting





Dryer Separator Pit Media Blasting Preparation



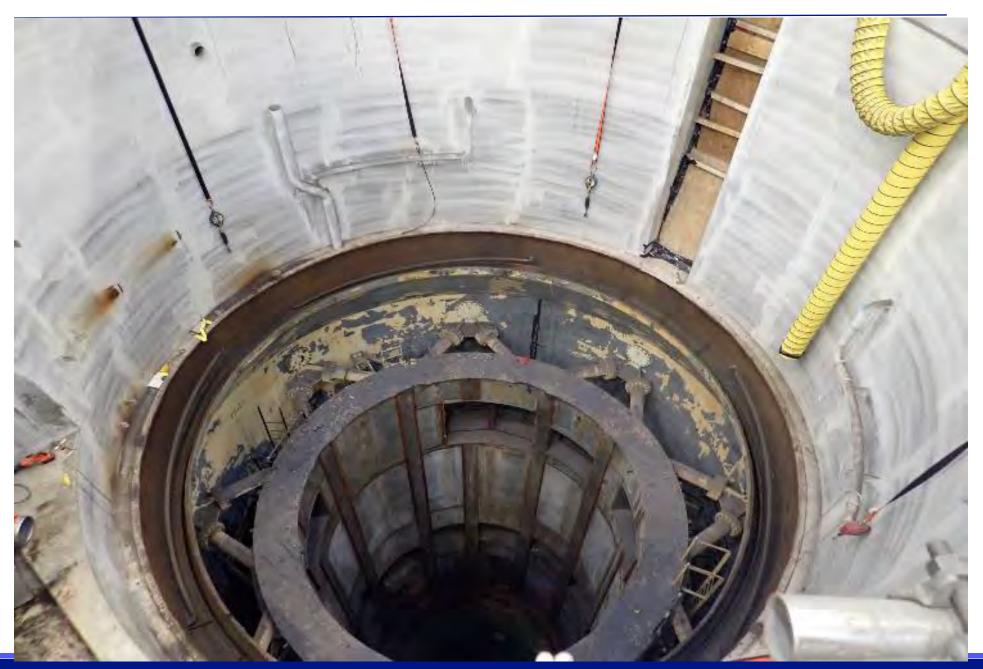


Dryer Separator Pit Media Blasting





Containment to Rx Vessel Bellows Removal



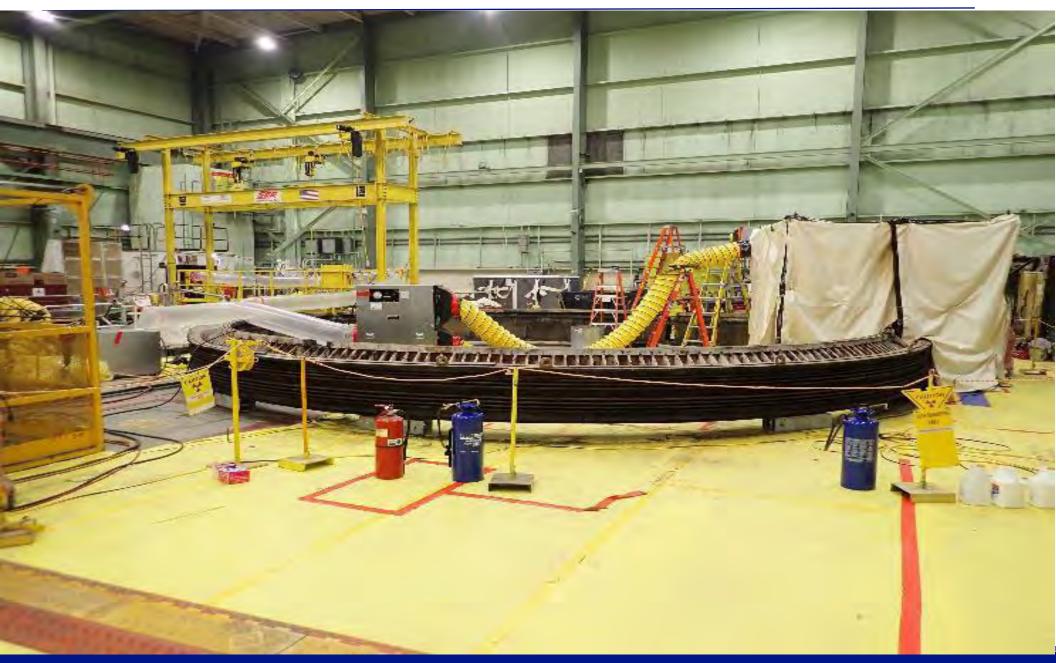


Drywell Cleaning and Decontamination





Containment to Rx Vessel Bellows Segmentation



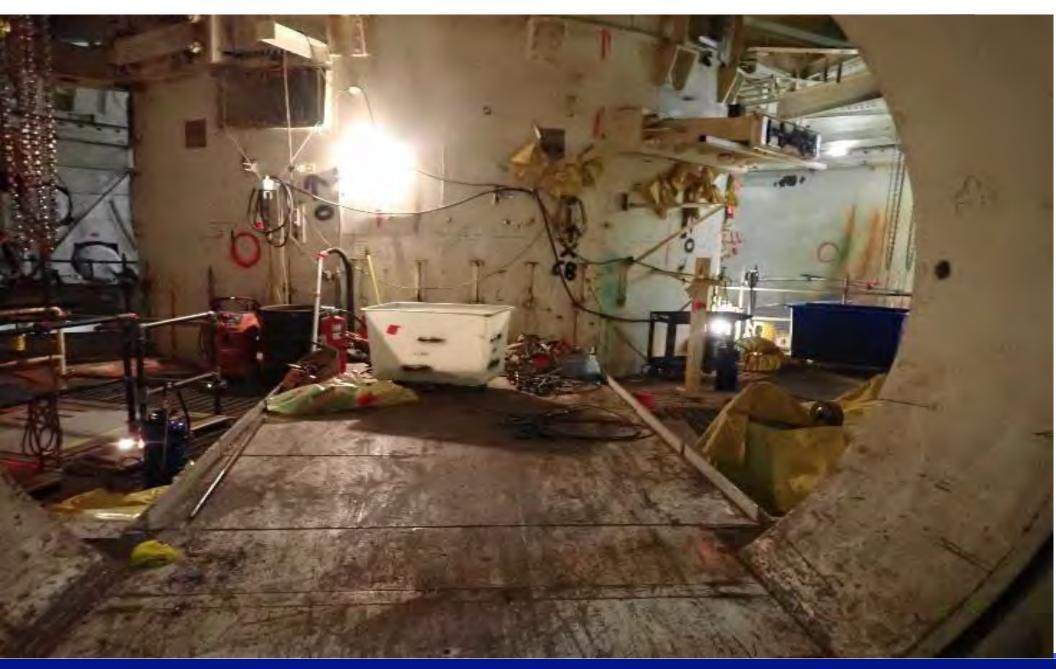


Packaging Bellows Segments





Drywell Piping & Component Removal





Rigging Recirc Pump out of Drywell



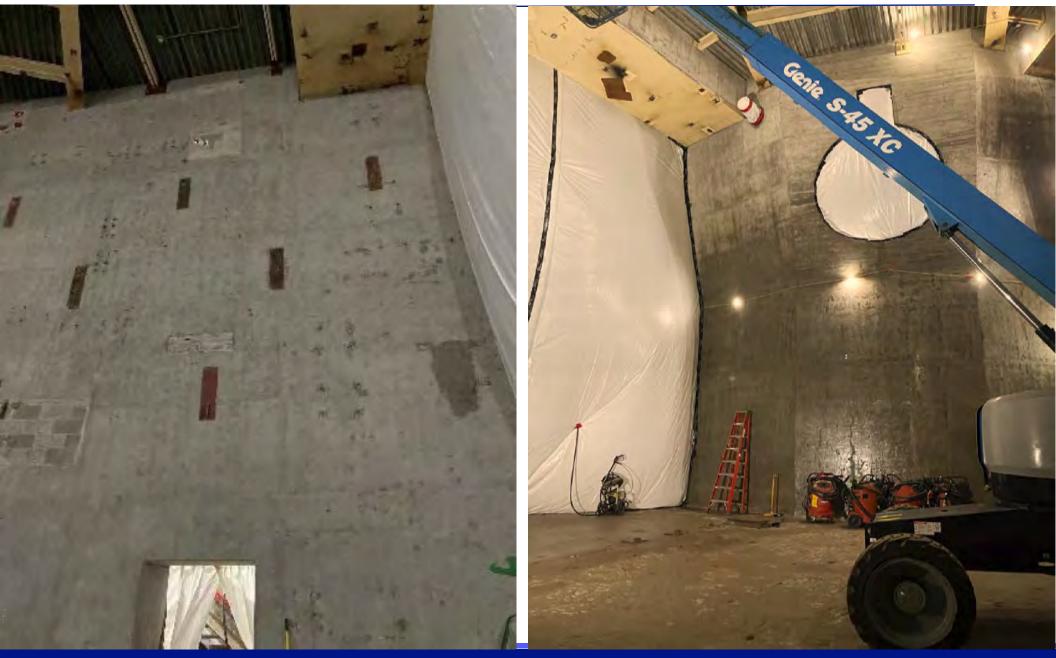


Packaging Rx Recirc Piping for Shipment



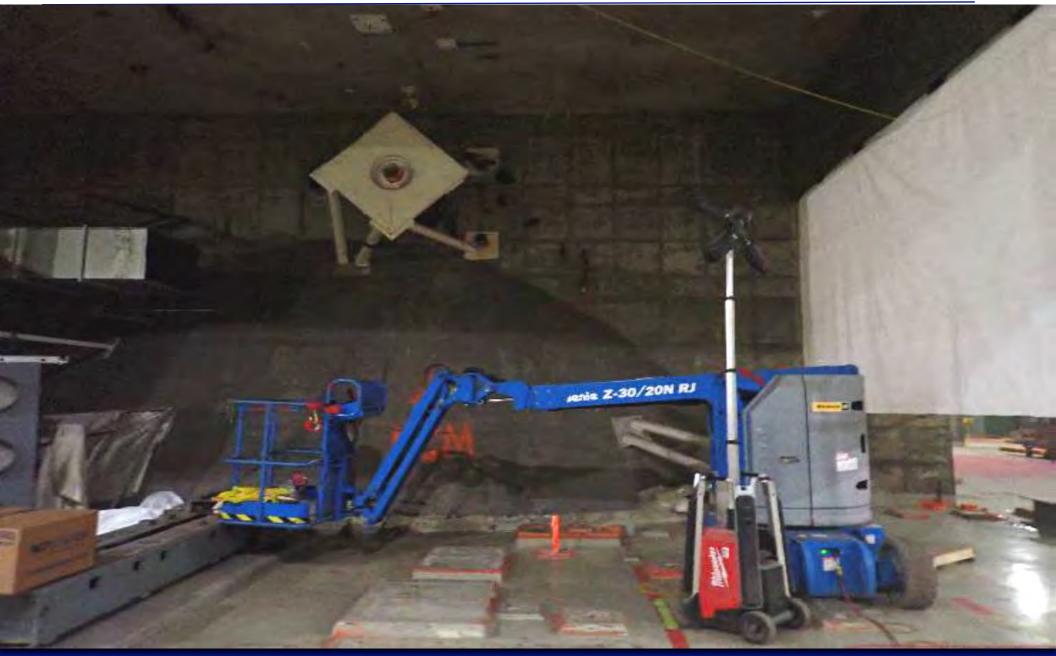


TORUS Area Cleaning and Decon





Rx 280' (First Floor Level) Component Removal





AOC 5 Backfill Complete





AOC 7A Excavation Backfill





Excavation of Piping from Spray Pond





Spray Pond Piping Removal





Spray Pond Piping Excavation Backfill





Preparing Access to Discharge Structure Base





Discharge Structure Coffer Dam Construction





Non-Rad Site Characterization/Remediation

What else is happening?

- I-Rule Site Investigation completion criteria met. All AOC & site investigation activities complete.
- No new areas of impact identified.
- Additional Groundwater Monitoring Wells installed with ANR's input to improve monitoring/data capture.
- Post Decommissioning Groundwater Monitoring Program per MOU still under development with ANR input.
- Continued collaboration through regular meetings with VT ANR, DEC to maintain alignment.



Final Status Survey & Environmental Monitoring Activities

Collecting Soil Samples



Drilling Monitoring Well





Grading & Surveying of Soil Staging Area



Preparing RWCU Heat Exchangers for Shipping





Preparing to Ship a 14-170 Shielded Cask by Truck





Waste Loading & Transportation





Shipping and Material Volumes

Currently shipping about 3-4 rail cars per week (Total shipments to date: 920)

- Total YTD Shipments (as of 9/16/24): 151
- Total Volume 2,523,947 ft³ (93,480 yd³)
- Total Weight 115,357,536 lbs. (57,679 tons)
- Total Activity 35,701 curies

Questions?



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

