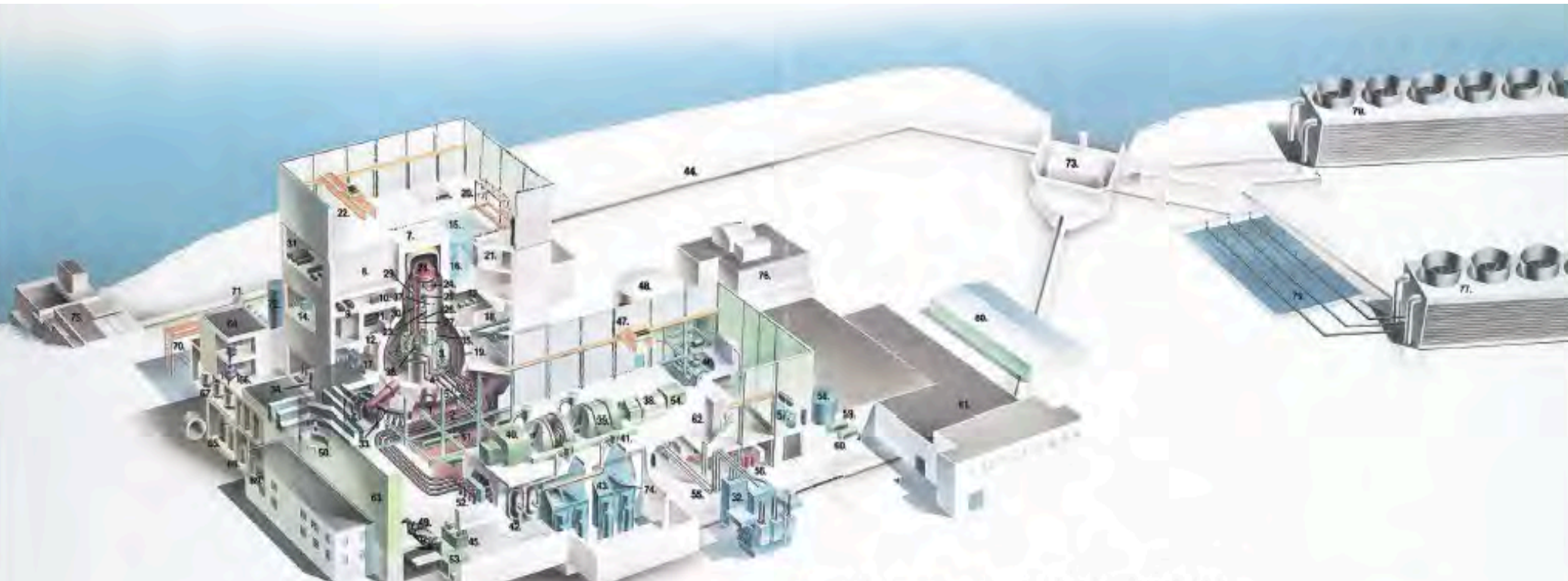


NorthStar VTY Decommissioning



Vermont Yankee Nuclear Power Station

NDCAP Update 12/11/2023

- | | | | |
|---|----------------------------------|----------------------------------|--------------------------------------|
| 1. Torus | 21. New fuel storage vault | 41. Intercept valve | 61. Receiving and stores |
| 2. Main steam lines | 22. Overhead crane | 42. Moisture separator | 62. Elevator |
| 3. Recirculation pump | 23. Biological shield well | 43. Main condensers | 63. Turbine building |
| 4. Inboard main steam isolation valve | 24. Steam dryer | 44. Cooling water recirculation | 64. Rad waste building |
| 5. Outboard main steam isolation valve | 25. Steam separator | 45. Turbine oil tank | 65. Condensate phase separator tanks |
| 6. Downcomers | 26. Fuel assemblies | 46. Emergency diesel generators | 66. Centrifuge |
| 7. Shield plug | 27. Reactor vessel | 47. Overhead crane | 67. Cask filling area |
| 8. Dryer/separator storage pool | 28. Vessel head | 48. Condensate storage tank | 68. Spent resin tank |
| 9. Reactor building cooling water heat exchangers | 29. Main steam outlet | 49. Feedwater pump | 69. Waste sludge tank |
| 10. Reactor building cooling water pump | 30. Recirculation water outlet | 50. Control room | 70. Traveling hoist |
| 11. Reactor water cleanup heat exchanger | 31. Uninterruptible power supply | 51. High pressure heaters | 71. Sample tanks |
| 12. Reactor water cleanup pump | 32. Main transformer | 52. Main stop valve | 72. Surge tank |
| 13. Vital AC motor generator set | 33. Ring header | 53. Turbine lub oil storage tank | 73. Discharge structure |
| 14. Recirculation motor generator set | 34. RH/R service water pump | 54. Excitation cubicle | 74. Low pressure heaters |
| 15. Fuel pool (spent fuel storage) | 35. Recirculation inlets | 55. Main generator leads | 75. Intake structure |
| 16. Spent fuel rack | 36. Manifold | 56. Make-up demineralizers | 76. Advanced oil-gas building |
| 17. Hydraulic control units | 37. Feedwater inlet | 57. House heating boiler | 77. West cooling tower |
| 18. Standby gas treatment | 38. Generator | 58. Cleanwell | 78. East cooling tower |
| 19. Primary containment wall | 39. Low pressure turbine | 59. Acid storage tank | 79. Spray pond |
| 20. Refueling bridge | 40. High pressure turbine | 60. Caustic storage tank | 80. Warehouse |

NorthStar Nuclear Decommissioning Company, LLC

Simple Priorities



SAFETY with all we do: Target Zero ( **Accidents**)

Radiological, Environmental, Industrial, Nuclear

Do it right. Do it safe.



Project Schedule – Overview (Re-Cap)

							Partial Site Release		License Termination (ISFSI) Target 12.31.52)
	2020	2021	2022	2023	2024	2025	2026	2027 thru 2051	2052
Spent Fuel Management									Final Site Restoration & License Termination
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									
Asbestos& Lead Paint Removal									
Security Structures and Equipment									
Turbine Warehouse									
Aog									
Rotors and Storage Structures									
Stack									
Intake									
Reactor Building									
Admin Building									
Control Building									
Rad Waste									
Discharge									
Service Building									

Performance Update

- SAFETY: **Acceptable**

Zero NorthStar OSHA Recordable Lost Time Accidents to date, with over 1,800,000 person hours worked on site since January 11th 2019.

- REGULATORY: **GOOD**

Zero NRC Cited Violations for all of 2019, 2020, 2021, 2022, and 2023 to date.

- PRODUCTION: **Acceptable**

Overall project schedule remains well on track. Bulk Decom work and Site Characterization continues advancing ahead of initial projections.

Turbine Building Demo



Turbine Building concrete structure Demo



Turbine Building concrete structure Demo



Segregating Turbine Building Structural Steel



TORUS Basement Area Piping removal



Backfill and Final Grading of the Cooling Tower Basins



Discharge Structure Demo Preparation



Clean Fill staged for Discharge Structure backfill

Discharge Structure Demo Preparation



Rerouting Stormwater Drain Line at North end of Discharge Structure

Discharge Structure Demo preparation



Empty and Clean Spent Fuel Pool for the last time



Fuel Pool Cooling Heat Exchangers removal preps



Wall removal to access RWCU Heat Exchangers



RWCU Heat Exchangers removal preps



Wall removal to access Containment Ante Room



Rx Containment Piping & Equipment Demo



Rx Containment Piping & Components load out



Loading Rail Gondolas Cars with Concrete Debris



Waste Loading & Transportation



Shipping and Material Volumes

Currently shipping about 4-5 rail cars per week
(Total shipments to date: 767)

- Total YTD Shipments (as of 12/05/23): 230
- Total Volume 2,161,061 ft³ (80,039 yd³)
- Total Weight 92,445,587 lbs. (46,223 tons)
- Total Activity 35,654 curies

Non-Rad Site Characterization/Remediation

What else is happening?

- No new areas of impact identified.
- Split sampling continues for Post Demolition Surveys with ATC in coordination with ANR. All sample data continues to correlate well and show no impacts to soils below the buildings or structures.
- Working with ANR for concurrence with meeting I-Rule Site Investigation completion criteria.
- Post Decommissioning Groundwater Monitoring Program per MOU being developed with ANR input.
- Renewal and annual inspections of Stormwater Permits completed with minor maintenance as warranted.
- Continued collaboration through regular meetings with VT ANR, DEC to maintain alignment.

Questions?

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

