

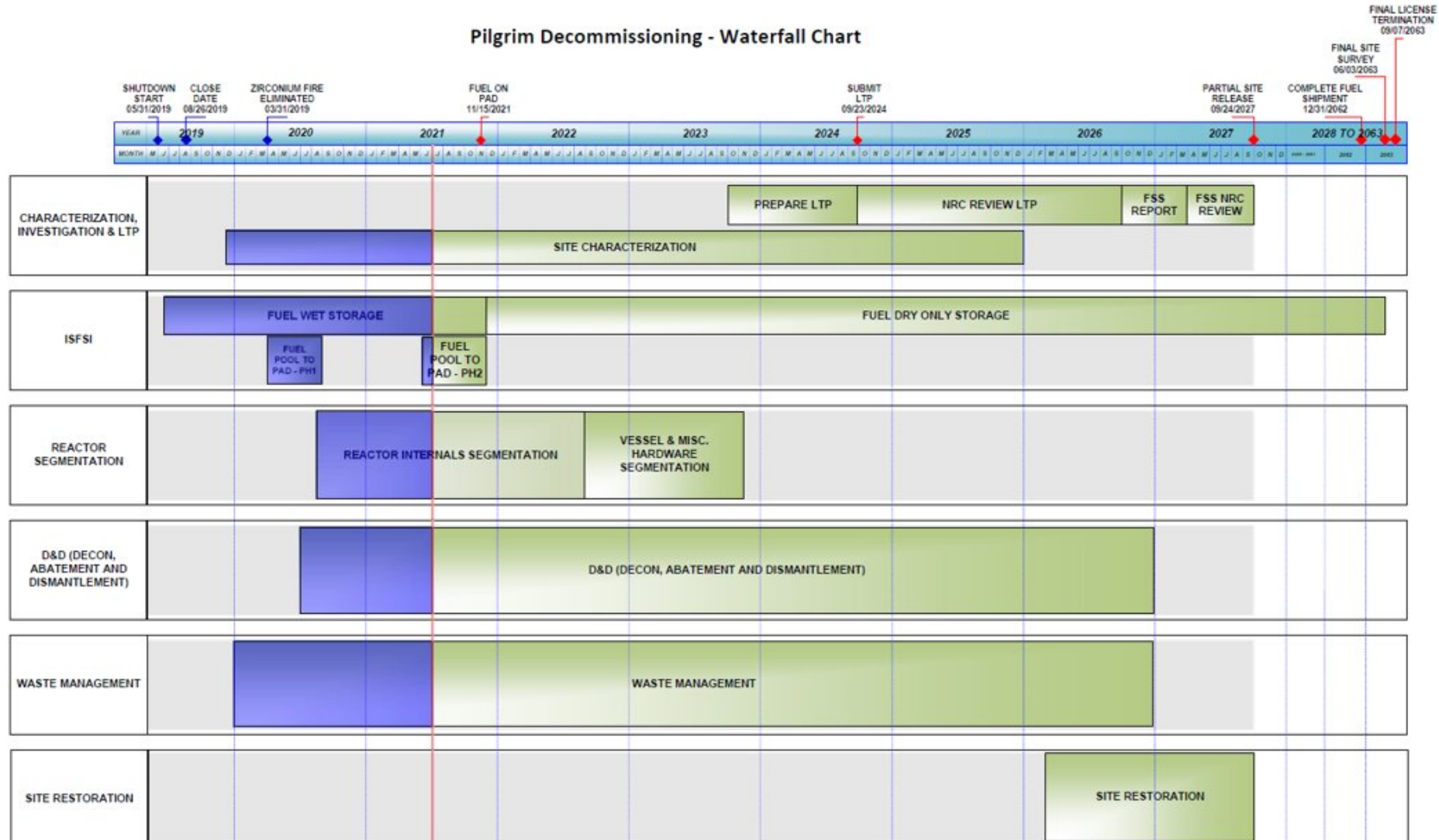


Pilgrim NDCAP Update July 26, 2021



Timeline

Pilgrim Decommissioning - Waterfall Chart

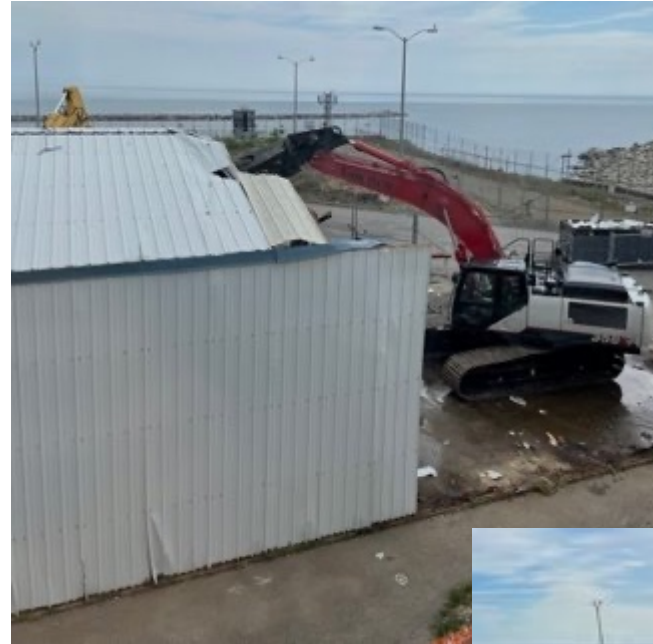


Demolition and Segmentation



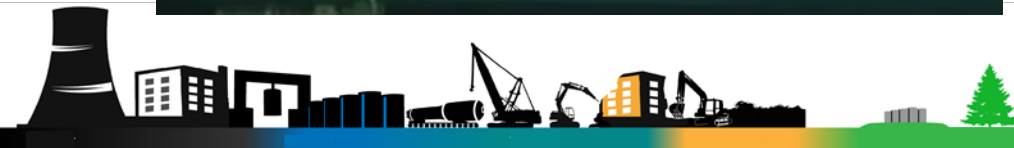
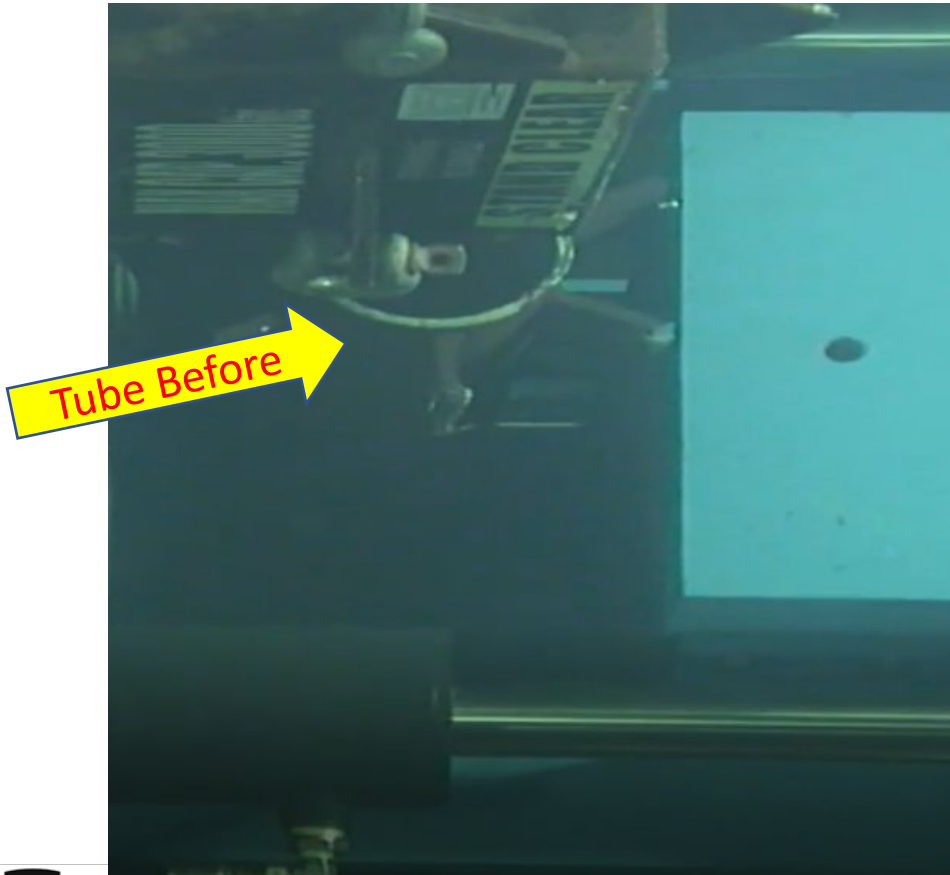
Demolition and Segmentation

- Completed
 - K-4 Building (Right)
- Next Scheduled for 2021
 - Access Building – 3rd Quarter
 - Old Executive Admin Building – 3rd Quarter
 - Main Warehouse – 3rd and 4th Quarter
 - O&M Building – 4th Quarter
 - Air-Off Gas Building – Gapping Underway
 - South End of Turbine Building – Gapping Underway



Demolition and Segmentation

Waste Reduction Work Continues in the Dryer-Separator Pit During Fuel Campaign – Separator Lower Riser Tube Crushing

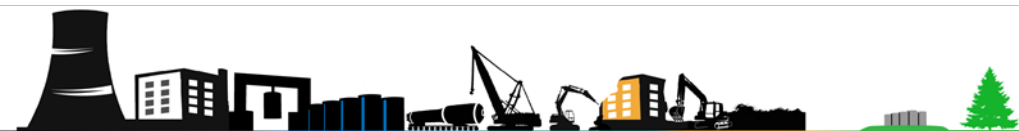


Radioactive Waste Shipments - Planned this Quarter

- D & D Dry Active Waste – Low Activity rad waste – 4 x Seavans in rail transit to WCS **COMPLETE**
- Rx bldg. concrete shield blocks Rail shipment – off loaded at WCS **COMPLETE**
- Next Rail shipment for removal of remaining shield blocks
- Class B Resin shipment
- Class A Filter shipment
- Class A Reactor Segmentation shipments – Q1 2022

Shipped to Facility – WCS, Texas – To Date (2021)

- 10 x Type A container Rx Seg shipments (Class A waste) disposed
- 5 x DAW shipments (10 x 20' C Vans) disposed
- 36 x concrete shield blocks (6 x ~105-ton capacity gondolas)
- 3 x DAW with Asbestos containing material (3 x 40' C Vans)



Fuel Campaign



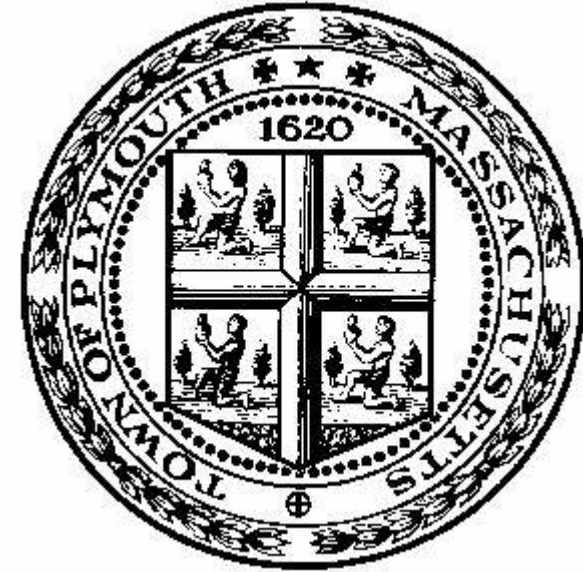
Fuel Campaign

- Cask 4 of 34 Completed Last Week
- Cask 5 Loading Underway in Pool
- NRC Onsite July 19-22 to Observe the Fuel Campaign, NRC to Observe Dry-Run of Fuel from Lower Pad to Upper Pad July 28-29
- Lower Pad Casks in Storage scheduled to be Transported to Upper Pad the Week of August 2
- Fuel Campaign On-Track to be Completed in November as Scheduled
- Greater-than-Class C Non-fuel Waste Containers (2) on Schedule, to Follow Fuel Campaign



Local Stakeholder Visits

- Town of Plymouth Selectboard Chairman and Planning Director Toured Site Last Week
- Four members of the Duxbury Selectboard and Three members of the Duxbury Nuclear Matters Committee Toured Site and Met with Site Leadership Last Week



Environmental



During development of the first Semi-Annual report to the Commonwealth of Mass. under the NPDES Permit Administrative Order of Consent (AOC) we identified multiple environmental benefits we have realized since shutdown and transition to HDI.

1. Innovative methods of managing system flows and reduced oxygenation have resulted in reduced biofouling of surfaces thus eliminating the need for injection of oxidants into the cooling water and storage of the facility's only designated toxic use chemical (zero sodium hypochlorite)
2. Heat addition and cooling water differential temperature to the Cape Cod Bay have been reduced to approximately 10% of that allowed under the consent order, greater than 99% reduction from when we were operating
3. Effective management of waste process streams prevented discharges (Zero) via Outfalls 011 (Demineralizer Skid effluent) and 014 (Neutralizing Sump)
4. The facility has eliminated automatic and manual pumping of underground vault manways (Zero)



Site Characterization



Site Characterization Activities Update

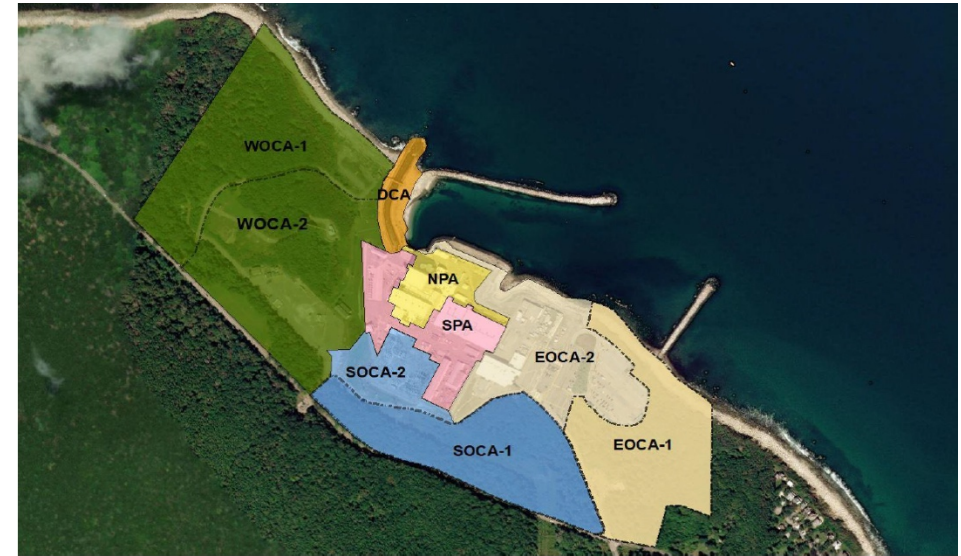
MassDEP Notice of Responsibility RTN# 4-28765 issued June 7, 2021

- MCP Phase I and Tier Classification required by 4/21/2022
- Soil and groundwater reportable concentration exceedances identified from initial site characterization activities
- Radiological soil split sampling program with MDPH at licensed perimeter areas
- Specific sampling locations requested by MDPH for split sampling
- Split samples will allow independent MDPH verification of analytical results
- Augments the 10+ years of split sampling on tritium program



Additional Site Characterization – Main Parcel

- Work commenced July 6
- Additional site characterization (rad and non-rad) as outlined in Amended ESA Work Plan



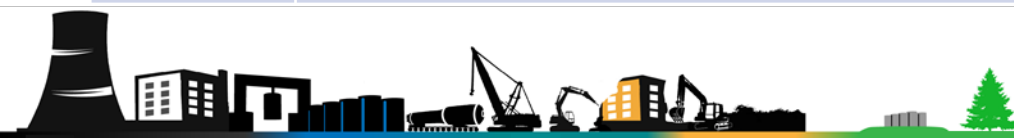
Area	Work Plan	Status	Next Steps
WOCA	4 soil borings and monitoring wells	3 locations completed; last location underway	Well development & groundwater sampling
EOCA	4 soil borings and 3 monitoring wells	Vacuum clearance for drilling	Drilling, sampling, well installation
	2 sediment	Evaluating methods for collection	Collect sediment samples
SOCA	1 soil boring and monitoring well	To be completed	Drilling, sampling, well installation

Additional Site Characterization – Licensed Perimeter Areas

- Work commenced July 6
- Additional site characterization (rad and non-rad) as outlined in Amended ESA Work Plan
- MDPH split sampling of radiological soil samples



Area	Work Plan	Status	Next Steps
PERA-1	Soil screening, soil sampling, soil borings and new monitoring well	Surficial soil sampling underway	Drilling, sampling and well installation
PERA-2	Soil screening, sampling, soil borings and new monitoring well	Surficial soil sampling underway	Drilling, sampling, well installation
PERA-3	Soil screening, sampling, soil borings, and new monitoring wells	Surficial soil sampling underway	Drilling, sampling, well installations



Conclusion

- Work Remains On-Track
- Work is Being Performed Safely
- Continue to Work with State and NRC to Ensure Compliance of Work
- Working with Local Stakeholders

