

# Nuclear Decommissioning Citizens Advisory Panel (DCAP)

September 25, 2014



# Introductions

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Entergy Wholesale Commodities

# EVY Current Operational Status

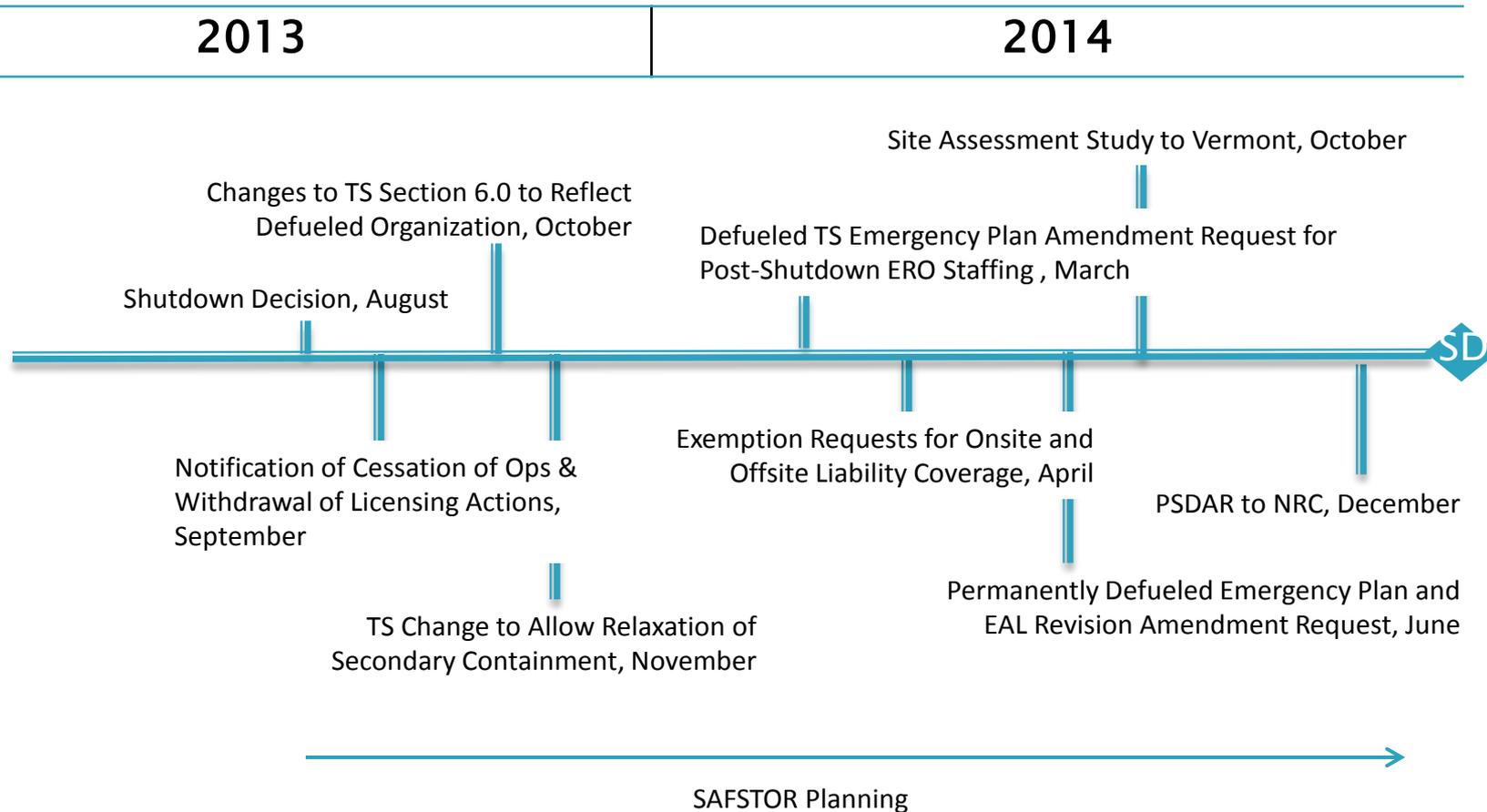
*The focus of Entergy Vermont Yankee (EVY) and its Employees continues to be on the safe and error-free operation of the plant.*

- ▶ Since the August 27<sup>th</sup>, 2013 announcement of the planned shutdown of VY, the plant has operated continuously. EVY has safely generated electricity for 538 days since the last refueling outage.
- ▶ The plant has begun coast down to an end of 2014 shutdown with power levels decreasing by design.
- ▶ Personnel safety record has been very good in 2014.
- ▶ All NRC Performance Indicators remain Green and in the category of a top performing plant.

# Significant Milestones Since the August 2013 Announcement

- ▶ Negotiated a Settlement Agreement with the State benefitting both parties, including;
  - \$25M Site Restoration Fund
  - \$ 5M+ Clean Energy Development Fund
  - \$10M Economic Development Fund
- ▶ Certificate of Public Good (CPG) issued March 28<sup>th</sup>, 2014
- ▶ Open, transparent, continuous and engaged dialogue between EVY and Vermont.
  - Several meetings between Governor Shumlin and Entergy Wholesale Commodities (EWC) President Bill Mohl & Entergy EWC VP Mike Twomey.
- ▶ Meetings between Vermont Agency for Natural Resources (VANR), Department of Health (DOH) and Entergy technical staff to discuss current site conditions and future plans.

# Historical Timeline



# Settlement Agreement/MOU Status

Status	Provision Description	Action
☑	Site Restoration Fund	\$10M – Funded 5/6/2014
☑	Clean Energy Development Fund (CEDF)	\$5.2M – Funded 5/6/2014
☑	Economic Development Fund – Windham County	\$2M for 2014; First of five (5) annual payments due on or before 4/1 each year
☑	File CPG Application for Second ISFSI Storage Pad and Infrastructure	Filed 6/30/2014
☑	Work with Vermont ANR on Thermal Discharge Issues as part of the NPDES Permit Renewal	Ongoing

# Commitment to Entergy Vermont Yankee Employees

- ▶ Consistent and unwavering commitment to Employees since shutdown announcement.
  - Meetings, Forums, Websites and E-Mail Messaging.
- ▶ Efforts to place employees across the Entergy fleet is a significant and ongoing effort.
- ▶ Level Staffing will remain through normal operations and into early-2015.
- ▶ Staffing reductions will occur at key milestones during transition to SAFSTOR based upon safe, secure and regulatory compliant post-shutdown operations.
- ▶ EVY is working with the states of VT, NH and MA Departments of Labor on employee support services including job fairs and unemployment seminars.

# EVY Charitable Contributions

- ▶ Over \$175,000 Donated in 2014
  - Brattleboro Memorial Hospital \$53,400
  - Brattleboro Area Drop-In Center \$32,000
  - Brattleboro West River Park Project \$10,000
  - Youth Services – Summer Resource \$10,000
  - Brattleboro Museum & Art Center \$ 8,000
  
- ▶ EVY will continue with charitable contributions in 2015 at reduced levels with continued focus on local community support.

# Staffing Transition to Decommissioning

Operation		Dormancy Preparation					SAFSTOR
2013	2014	2015	2016	2017	-	2020	2021+

*Defuel*

*Fuel Cool*

*Fuel in Dry Storage*

*1st ISFSI Pad Full;  
2nd Pad Needed*

Wet Fuel (Cool)  
Management

~127 Personnel

Dry Fuel  
Management  
~58 - 24 Personnel

Site Operation  
✓ Operation  
Safety

~550 Personnel

Wet Fuel (Hot)  
Management

~316 Personnel

Decom Planning

Organizations

# Site Assessment Study

- ▶ Site Assessment Study (SAS) is nearing completion and in the technical review process.
- ▶ Initial information being provided to the VANR and Department of Health (DOH) in advance of final SAS.
- ▶ Two (2) Technical Exchange Meetings held between State of VT Technical Team and Entergy Site Closure Team.
- ▶ SAS expected to be issued in the next 30 days with an extensive compilation of data and site information.

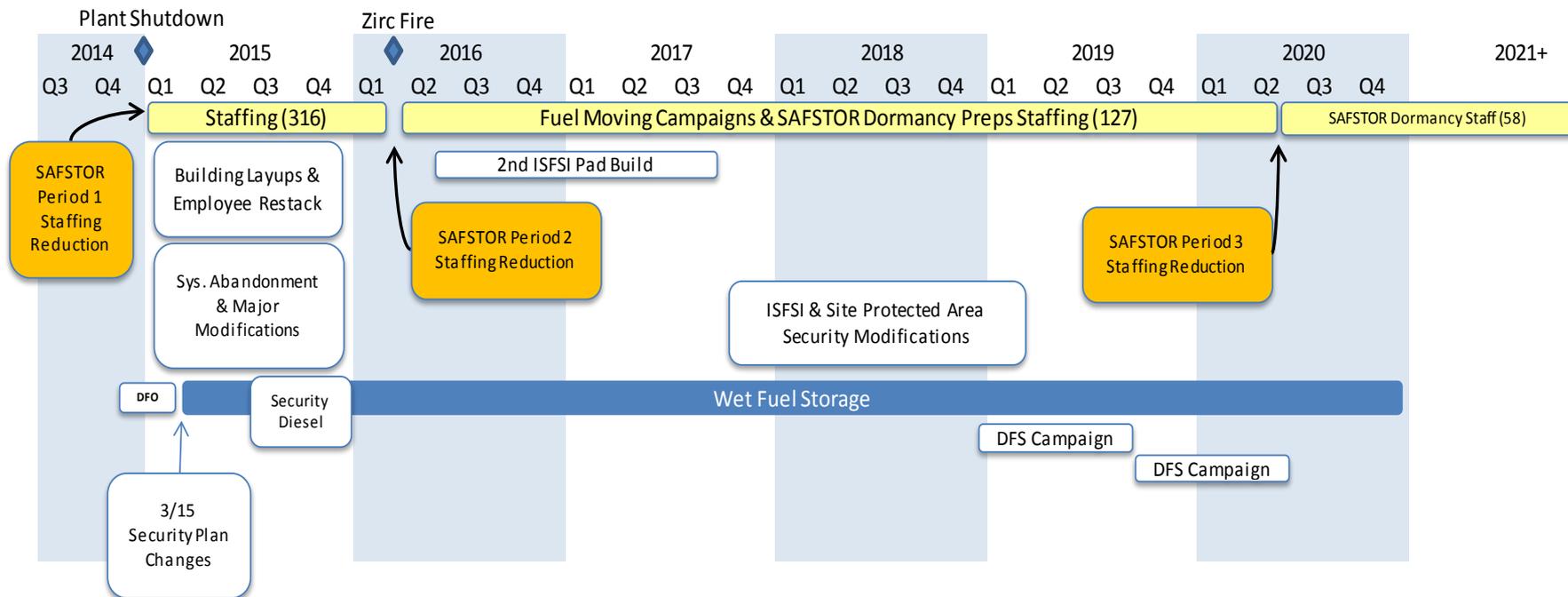
# Regulatory Submittals Supporting Decommissioning

- ▶ Technical Specifications (3 Submittals)
  - Defueled Organization and Programs
  - Secondary Containment Requirements
  - Permanently Defueled Tech Specs
- ▶ Emergency Plan (3 Submittals)
  - Post-Shutdown E-Plan
  - Exemption Requests and associated Defueled E-Plan/Emergency Action Levels

# Upcoming Plant Milestones

- ▶ EVY will cease plant operations by the end of 2014
- ▶ Defueling of the reactor will commence and be completed in January 2015
- ▶ System Abandonment and Decommissioning Modifications in 2015
- ▶ Installation of 2<sup>nd</sup> ISFSI Pad – 2016/2017
- ▶ ISFSI & Protected Area Security Modifications – 2016 through 2018

# Next Steps



All forward looking statements are preliminary based on information currently available and are subject to change

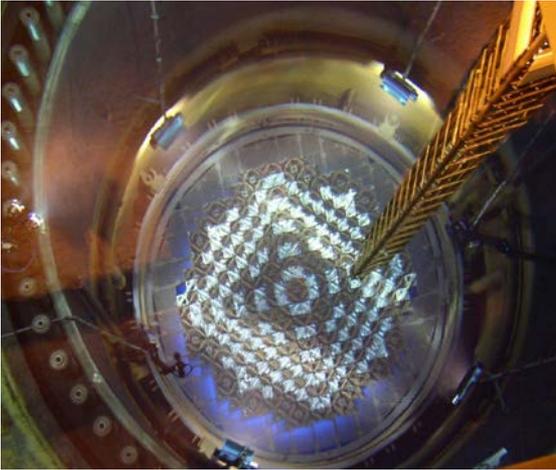
# Independent Spent Fuel Storage Installation (ISFSI)



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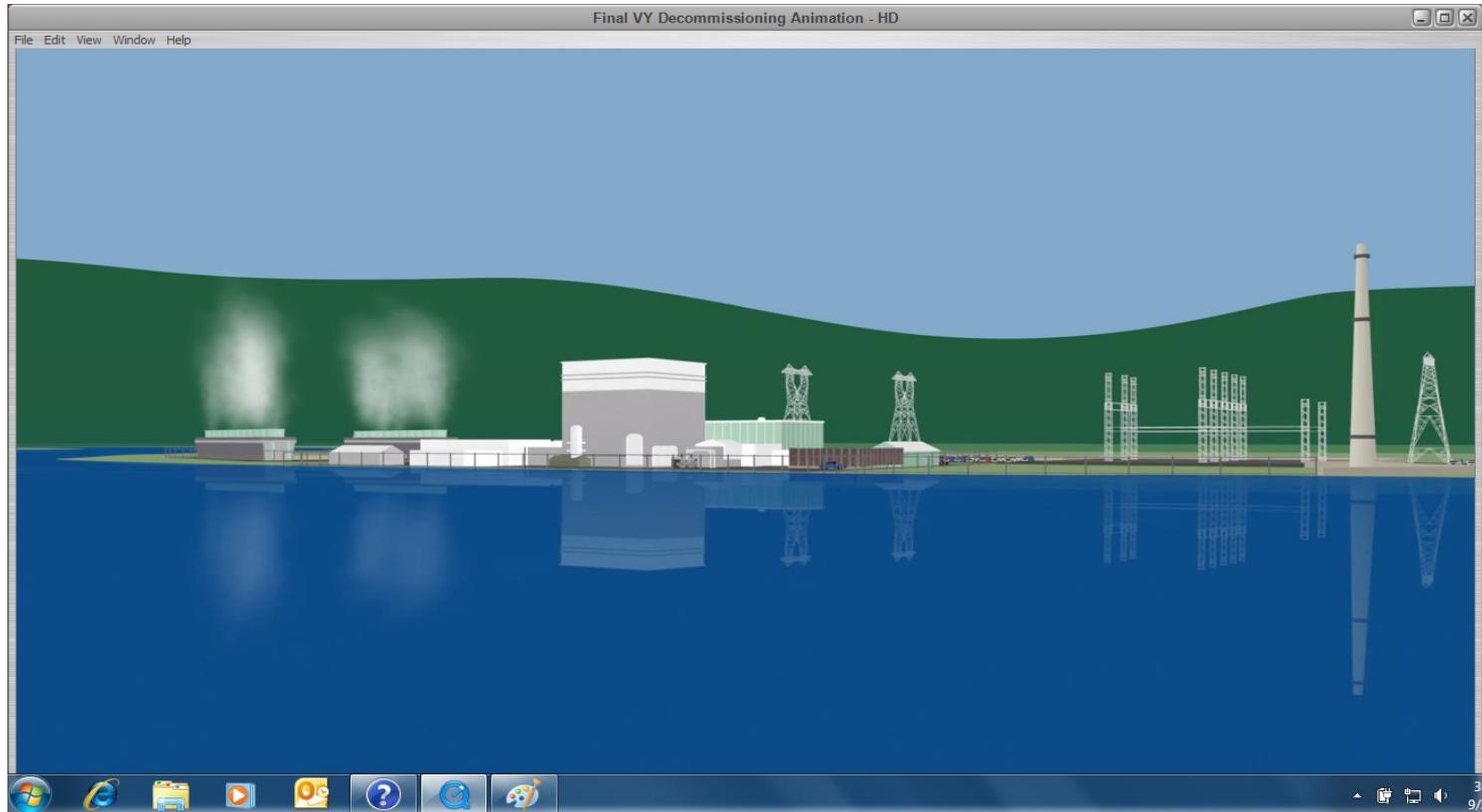


# Current Spent Fuel Pool Storage



- The Spent Fuel Pool currently stores the majority of fuel used at EVY.
- Thirteen (13) Dry Cask Storage Casks are safely loaded and stored on the first of two planned storage pads.
- An application for a second pad has been submitted to the Public Service Board (PSB) seeking a Certificate of Public Good (CPG)
- A total of fifty-eight (58) Dry Cask Storage Casks will house 3,880 spent fuel assemblies on the two pads.
- All fuel is planned to be transferred to Dry Cask Storage by late 2020.

# Decommissioning Animation



# Focused on Safe Transition to Dry Fuel and Dormancy

- ▶ Continued Compliance with the Settlement Agreement/MOU
- ▶ Decommissioning Preparation Activities
  - System Draining/Lay-Up
  - Building Power Removal to “Cold and Dark”
- ▶ Completion of Transferring Spent Fuel from Pool to Pad
- ▶ Ongoing Environmental Monitoring
- ▶ Establishment of Site Restoration Standards with the State of Vermont
- ▶ Site Characterization and Select Structure/Building Removal