Nuclear Decommissioning Citizens Advisory Panel (DCAP)

September 25, 2014
Introductions

Chris Wamser
VP, Entergy Vermont Yankee

T. Michael Twomey
VP, External Affairs
Entergy Wholesale Commodities
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 27th, 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 28th, 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

2013
- Shutdown Decision, August
- Notification of Cessation of Ops & Withdrawal of Licensing Actions, September
- Changes to TS Section 6.0 to Reflect Defueled Organization, October
- TS Change to Allow Relaxation of Secondary Containment, November

2014
- Site Assessment Study to Vermont, October
- Defueled TS Emergency Plan Amendment Request for Post-Shutdown ERO Staffing, March
- Exemption Requests for Onsite and Offsite Liability Coverage, April
- PSDAR to NRC, December
- Permanently Defueled Emergency Plan and EAL Revision Amendment Request, June
- SAFSTOR Planning
## Settlement Agreement/MOU Status

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

<table>
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<tr>
<th>Operation</th>
<th>Dormancy Preparation</th>
<th>SAFSTOR</th>
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<tbody>
<tr>
<td>2013</td>
<td>2015</td>
<td>-</td>
</tr>
<tr>
<td>2014</td>
<td>2016</td>
<td>2020</td>
</tr>
<tr>
<td>2015</td>
<td>2017</td>
<td>2021+</td>
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**Defuel**
- Site Operation
  - Operation Safety
    - √ Operation Safety
    - ~550 Personnel
  - Decom Planning

**Fuel Cool**
- Wet Fuel (Hot) Management
  - ~316 Personnel

**Fuel in Dry Storage**
- Wet Fuel (Cool) Management
  - ~127 Personnel
- Dry Fuel Management
  - ~58 – 24 Personnel

1st ISFSI Pad Full; 2nd Pad Needed
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\textsuperscript{nd} ISFSI Pad – 2016/2017
- ISFSI & Protected Area Security Modifications – 2016 through 2018
All forward looking statements are preliminary based on information currently available and are subject to change.
Independent Spent Fuel Storage Installation (ISFSI)
Independent Spent Fuel Storage Installation (ISFSI)
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