

Yankee Rowe Fuel Storage & Removal
Community Advisory Board

Meeting Minutes

for

November 5, 2015

CAB Meeting

Meeting Minutes

Yankee Rowe Fuel Storage and Removal Community Advisory Board November 5, 2015

The Yankee Rowe Fuel Storage and Removal Community Advisory Board held their Annual meeting at the Golden Eagle Restaurant in Clarksburg, MA on November 5, 2015.

Attendees: Lenny Laffond (Rowe), David Nash (Monroe), Gail Cariddi (North Adams), Bill LeQuier (Readsboro), Art Schwenger (Franklin County Chamber of Commerce), Dawn Peters (Heath), Tom Wilson (CAN), Carla Davis-Little (Monroe) and Paul Mark, MA State Representative.

Guests: Joe Lynch - Vermont Yankee Government Affairs Manager,
Kate O'Connor - Chair of Vermont Yankee Nuclear Decommissioning Citizen's Advisory Panel

YAEC Representatives: Brian Smith, Bob Mitchell, Bob Capstick, Dave Yorke, Karen Sucharzewski.

The meeting was called to order at 6:00 p.m. by Lenny Laffond, Chairman.

Minutes of the November 6, 2014 Minutes were approved as written.

ISFSI Status Report was presented by Brian Smith, (ISFSI Manager).
Presentation attached.

Regional and Federal Nuclear Waste Issue Update Report was presented by Robert Capstick (Public/Government/Regulatory Affairs Manager).
Presentation attached.

Vermont Nuclear Decommissioning Status was presented by Joe Lynch (VY Government Affairs Manager and Kate O'Connor (Chair Person – Vermont Yankee Nuclear Decommissioning Citizen's Advisory Panel).
Presentation attached.

CAB New Business: Brief discussion was held regarding increasing community participation to the Board.

Discussion held and approval given for the CAB Chairman to sign the Joint Community Advisory Board letter to the New England Delegation regarding Removal of Spent Nuclear Fuel from the States of MA, CT, VT and ME. A copy of the draft letter is attached.

The next CAB meeting is scheduled for Thursday, November 3rd, 2016 (*Date of Meeting was later changed to 11/9/2016 due to YAEC schedule conflicts*) at the Golden Eagle Restaurant.

The Meeting was adjourned @ 7:25 p.m.

For more information, contact Brian Smith at 413-424-5261 X-303 or via email at bsmith@3yankees.com.

Brian Smith
ISFSI Manager
Presentation

Yankee Rowe Spent Fuel Storage & Removal Community Advisory Board Meeting

Thursday, November 05, 2015

ISFSI Status

Industrial Safety

There were no Lost Time Accidents, OSHA Recordables, or injuries since the last report.

ISFSI Operations

ISFSI Operations are normal. Preparations are underway for winter operation.

In 2014 a detailed inspection was performed of the security systems associated with the storage of the spent fuel by an outside team. Overall, all systems performed as designed and as required by regulation. Additional enhancements that were recommended were added this year includes:

- Fence additions
- Primary Intrusion Detection System (PIDS) upgrade.
- Building Security
- New gate
- Tree & brush clearing
- Remove security enclosures from PA – asphalt replacement later this summer

The site Security Diesel Generator was also replaced this year due to obsolescence issues as spare parts were no longer obtainable. The new generator is half the size of the original, more energy efficient, and will supply all electrical requirements for the site in the event of the loss of off-site power.

Ground and Surface Water Sampling Program

The results of ground and surface water testing confirm an overall downward trend of the presence of Tritium. As a result of MW-107C being below the MCL of 20,000 picocuries per liter for Tritium, Yankee initiated a quarterly sampling program beginning in June of 2013 with additional sampling completed in September 2013, December 2013 and March 2014 during the performance of all the required ground and surface water sampling. The results for the March sampling event showed that MW-107C was at 8,910 pCi/L. Based on the quarterly sample results, Yankee was able to transition the central part of the site from a temporary solution to a final solution under the Massachusetts Contingency Plan (MCP) (Class A Response Action Outcome).

Yankee's environmental team has completed an evaluation of the feasibility of reducing the program scope and/or duration. Legal counsel as well as an environmental consultant have reviewed the current law and sampling data and determined the most appropriate path forward. The proposed reduction in the Program has been submitted to the Massachusetts Department of Environmental Protection. An ISFSI site visit was conducted in July and a meeting was held October 1st at their office in Springfield.

Independent Management Assessment

A biennial Independent Management Assessment (IMA) was conducted the week of September 21st. This Biennial Assessment was performed by an independent team that assessed the effectiveness of the Quality Assurance Program and its implementation, the Safety Culture for the site and the effectiveness of the corrective actions implemented to address areas for improvement raised during the 2013 Independent Performance Assessment (IPA).

NRC

Regulatory Filings

On September 1, 2015, YA submitted a request for exemption from certain requirements of 10 CFR 72.212 and 10 CFR 72.214 for the YA ISFSI in order to address safety concerns with removal of snow and/or ice from the VCC inlet screens, often under challenging environmental conditions. The exemption request will allow the use of either visual inspection or temperature monitoring so that snow removal can be performed under the safest conditions, without a rigid 24 hour timeline requirement.

Site Inspection

The next biennial Operational and Security inspection is scheduled for 2016.

Cask Relicensing

The Yankee companies continue to be actively involved with EPRI, NEI and NRC on the issues of canister relicensing and extending the expiration dates of the fuel storage system. Canister license renewal planning activities at NAC are underway.

The NEI Relicensing Working Group issued NEI 14-03, "Guidance for Operations-Based Aging Management for Dry Cask Storage to the NRC for review and endorsement on 9/23/2014. The 3 Yankees participated in the development of these guidelines and will be involved in any comment resolution process resulting from the NRC review. The 3Yankees also participated in the Dry Cask Storage Steering Group Biannual meeting during this reporting period.

Efforts are also underway with EPRI to develop the technical basis for dry storage cask canister inspections and frequency to address long-term corrosion considerations. A

nondestructive evaluation summit was also held at EPRI headquarters to identify a path forward for improving inspection technology on dry storage canisters to be used in conjunction with cask relicensing programs. These efforts are all elements of the Research and Development plan (which was also revised and reviewed during this reporting period) that EPRI and the industry has developed to provide a technical basis for the license renewal process.

The NRC has issued an information notice for cask degradation from moisture which has been assessed for impact. A program for the 3 Yankees has been developed to improve how we identify and report concrete issues associated with the over-packs and pads. Each 3 Yankee's ISFSI has issued the revised annual inspection procedure and the annual inspections are complete at each site.

Robert Capstick
Public/Government/Regulatory
Affairs Manager
Presentation

ROBERT CAPSTICK'S PRESENTATION
YAEC SPENT FUEL STORAGE AND REMOVAL COMMUNITY
ADVISORY BOARD UPDATE
NOVEMBER 5, 2015

NATIONAL NUCLEAR WASTE UPDATE

Administration:

The DOE 2013 Report, "*Strategy for the Management and Disposal of Used Nuclear Fuel and High Level Radioactive Waste*" remains the policy of the Administration. The strategy document milestones include development of a pilot consolidated storage facility with priority for shutdown reactor fuel, a larger consolidated storage facility, and a repository.

President Obama announced in July the creation of three new national monuments - one of which is the "Basin and Range National Monument" in Nevada that would restrict development in the area where the DOE Yucca Mountain project planned to build the railroad line to the YM repository.

In August, the DOE awarded a contract to AREVA to design and fabricate a rail cask and buffer railcars for testing to meet the new federal performance specifications for rail transportation of high-level radioactive material. The contract does not cover the testing or full-scale production of the cask and buffer cars. This is one of the transportation related activities needed in the future for DOE to transport the spent nuclear fuel (SNF) from the sites that the NEI, NARUC, NWSC, and DPC have been urging DOE to do under its existing authority.

Congress

The Nuclear Waste Informed Consent Act: Senators Reid and Heller introduced a bill, "The Nuclear Waste Informed Consent Act" (S. 1825) on July 22nd that would prevent the DOE from making payments for transporting nuclear waste through Nevada without receiving the consent of the governor, local officials, and tribal leaders. It is unlikely that the bill will get a hearing before the Senate Energy Committee.

The Nuclear Waste Administration Act of 2015: the Senate Energy and Natural Resources Committee August 4th hearing on the bi-partisan comprehensive nuclear waste reform bill introduced this session by Senate Energy Committee Chair Murkowski, Ranking Member Cantwell and Senate Energy Appropriations Subcommittee Chair Alexander and Ranking Member Feinstein, was postponed. The bill (S 854) includes a provision to establish a pilot consolidated interim storage facility that directs priority removal from permanently shutdown reactor sites.

The Interim Consolidated Storage Act of 2015: Congressman Conaway (R-TX) introduced a bill (HR 3643) on September 29th authorizing the DOE to contract with private parties for the development of consolidated interim storage facilities. The bill was referred to the House Energy and Commerce Committee.

House Nuclear Waste Bill: House Energy Subcommittee on Environment and the Economy Chairman Shimkus is expected to introduce nuclear waste legislation this session that will address the Yucca Mountain obstacles such as land and water rights. The bill is also expected to include a consolidated interim storage program provision, and if so, will likely link any operation of that program to a final agency action on the Yucca Mountain repository license application.

Senate Appropriations Legislation: The Senate Appropriations Subcommittee on Energy and Water Development included language in their FY '16 appropriations bill to establish a pilot CIS facility initially focused on moving SNF and high-level radioactive waste from shutdown reactor sites and would allow DOE to store SNF at private facilities such as those proposed in Texas and New Mexico. This summer the Subcommittee and full Senate Appropriations Committee approved the bill. In early October, it was brought to a vote in the Senate, but Senate Democrats blocked the bill in their effort to push Republicans to negotiate a larger budget deal.

House Appropriations Legislation: the House approved FY 2016 Energy & Water Development appropriations bill (HR 2028) continues congressional efforts to support the Yucca Mountain repository, providing \$150 million for the Nuclear Waste Disposal program and \$25 million for the NRC to continue the adjudication of DOE's Yucca Mountain License application.

Continuing Resolution: A short term Continuing Resolution was passed to keep the government running until December 11th. There is the potential for a subsequent omnibus package that could include some of the provisions from the individual appropriations bills.

House Appropriations Energy and Water Subcommittee Chairman Mike Simpson (R-ID) stated at a September Department of Energy Workshop that funding for both an interim storage pilot program and the Yucca Mountain licensing process should be included in a possible omnibus appropriations bill in December. Mr. Simpson said that both he and the Senate E&WD Chairman Lamar Alexander (R-TN) believe that both of the programs should move forward. Whether they can keep the money for Yucca Mountain in an omnibus if that were to happen given expected opposition from Harry Reid he didn't know, but said that he and Senator Alexander plan to challenge Senator Reid to get the necessary funding to do both a pilot program and continue the NRC licensing for Yucca Mountain.

Nuclear Regulatory Commission

Decommissioning Rulemaking: The NRC is expected to issue an Advance Notice of a Proposed Decommissioning Rulemaking before the end of the year. The 3-Yankees continue to participate in the half-dozen related NEI decommissioning working groups and task forces.

Yucca Mountain License Application: The NRC initiated a public comment process this fall for their draft supplement to the Yucca Mountain Environmental Impact Statement (EIS) pertaining to potential impacts on groundwater and from groundwater discharges. The supplement found that the impacts would be "small." The State of Nevada formally requested an additional 60 days be added to the comment period NRC responded that they would extend the comment period for an additional month - the new closing date is November 20, 2015.

Continued Storage of Spent Nuclear Fuel Rule: The petitions challenging the Continued Storage Rule and Generic Environmental Impact Statement (GEIS) filed in the US Court of Appeals by the states of Connecticut, Vermont, and New York, and several environmental organizations are still pending before the Court and a decision date is unknown. *[Background Note: In June 2012, the U.S. Court of Appeals vacated and remanded the 2010 Waste Confidence rule back to the NRC to address the impacts of potential spent fuel pool fires and leaks and the impacts of failing to secure a permanent disposal facility for spent nuclear fuel. The new rule was renamed and approved by the Commissioners on August 24, 2014 and it was subsequently challenged]*

Proposed ISFSI Security Rule: In early October, the Commission approved the NRC staff's recommendation to delay the ISFSI Security Rulemaking for a period of five years to 2020. The basis of the decision was that the existing security requirements for ISFSIs, together with the additional requirements in the post 9/11 security orders, provide continued high assurance of adequate protection of public health and safety. These orders remain in effect even if the agency does not proceed with the rulemaking and additionally, the triennial security inspections for ISFSIs that commenced in 2012 serve to ensure industry compliance with all current requirements.

Volunteer Consolidated Interim Storage Site Proposals

Texas Proposal: Waste Control Specialists, LLC announced plans earlier this year to expand their Low Level Waste facility in west Texas to build a private, temporary storage site for SNF. WCS plans to submit a license application for an interim storage facility to the NRC in April 2016 with a potential operational date for the facility in 2020. The development of the application and project is supported by Areva and NAC (Yankee's cask vendor). The NRC has stated that an application could be reviewed and approved in 33-36 month period. The expansion of the WCS site has the support of the local county and indications are support from the State as well. WCS is not seeking federal funds to build or operate the site, but plans to enter into an agreement whereby DOE would take title to the SNF, pay WCS to store the fuel and remain ultimately liable for the waste.

New Mexico Proposal: Officials from two rural New Mexico counties announced earlier this year an agreement between Holtec International and the Eddy-Lea Energy Alliance to site a CIS facility on 32 acres in the communities of Carlsbad and Hobbs. Governor Susana Martinez weighed in earlier that month sending a letter to Energy Secretary Moniz as a preliminary endorsement of the proposal. The two US Senators have voiced their opposition to the proposal. Holtec officials say the company expects to apply for a permit from the NRC in June 2016. The New Mexico facility also hopes to be operational by 2020.

DOE SPENT FUEL LAWSUIT STATUS UPDATE

Phase I Case

The Phase I case is completed. *[Background note: In February 2013, the federal government ultimately paid the Yankee Companies (Connecticut Yankee, Maine Yankee, and Yankee Atomic) nearly \$160 million in damages. These Phase I litigation awards represent damages through 2001 for Connecticut Yankee and Yankee Atomic and through 2002 for Maine Yankee. The US*

government did not to appeal the US Court of Appeals judgment of May 18, 2012 that confirmed the US Court of Federal Claims awards to Connecticut Yankee in the amount of \$39,667,243; and Maine Yankee of \$81,690,866; and Yankee Atomic of \$38,268,655. The Federal Energy Regulatory Commission (FERC) approved a filing effective July 1, 2013 following the award of the Phase I damages funds that accepted an agreement reached between the three Yankee Companies and state utility regulators in Connecticut, Maine and Massachusetts that have historically intervened in the companies' FERC rate cases. That agreement detailed an approach for applying the Phase I damages proceeds and future damages awards that best serves the interests of the ratepayers in their state.]

Phase II Case

The Phase II case is completed. *[Background Note: The federal government did not appeal U.S. Court of Federal Claims Judge Merow's ruling of November 14, 2013 that awarded Connecticut Yankee, Yankee Atomic, and Maine Yankee approximately \$235.4 million in total damages (CYAPCO recovered \$126.3 million, YAEC \$73.3 million, and MYAPCO \$35.8 million). These Phase II litigation awards represent damages that CYAPCO and YAEC incurred from January 1, 2002 through December 31, 2008, and that MYAPCO incurred from January 1, 2003 through December 31, 2008.]*

Phase III Case

In August 2013 the three Yankee companies filed a Phase III round of damages claims in the U.S. Court of Federal Claims for the years 2009-2012. The trial started June 30, 2015 and ran through July 1st. Post-trial briefing was requested by Judge Merow to be completed by October 14, 2015. The government filed a motion to extend the time for briefing. Judge Merow extended the period and the Yankee's final brief due on October 28, 2015. Following this filing, the case will be ready for Judge Merow to decide. It is not known when he will issue a ruling in the case.

Joe Lynch

Vermont Yankee Government Affairs
Manager

And

Kate O'Connor

Vermont Yankee Nuclear
Decommissioning Citizens Advisory
Panel – Chair Person

Presentation



Vermont Yankee Decommissioning Update

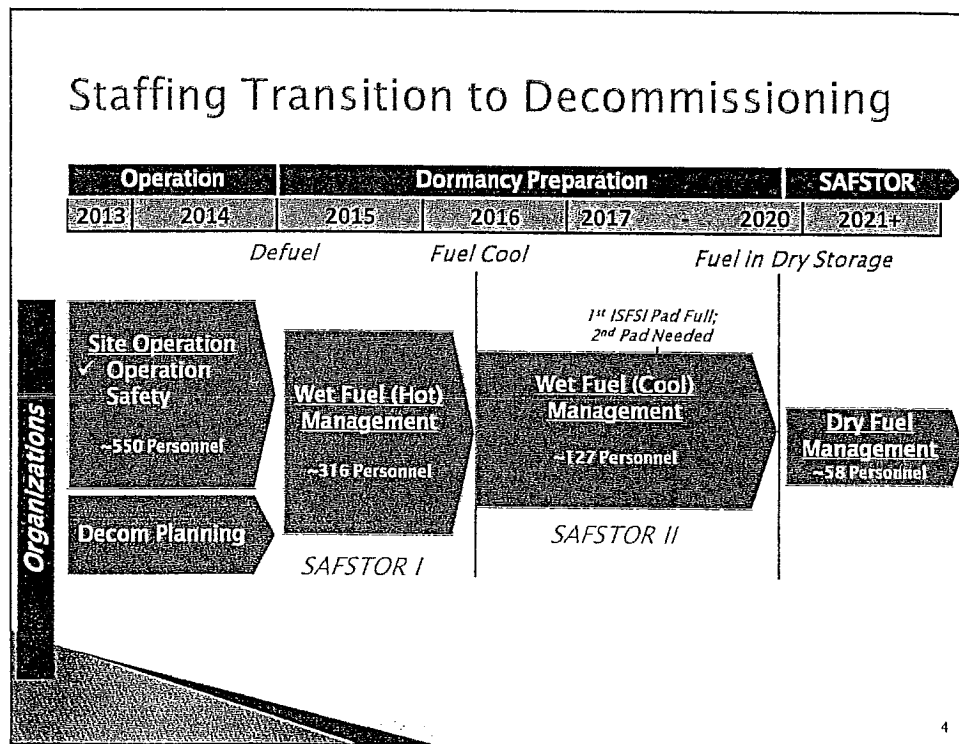
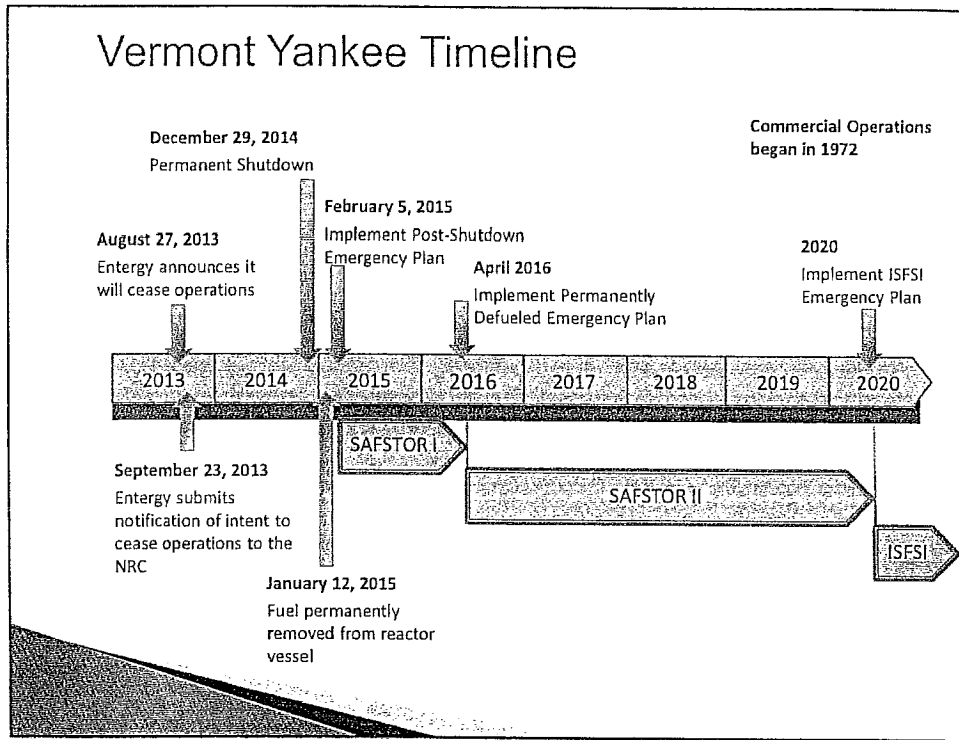
Yankee Rowe CAB Meeting

Joseph R. Lynch
Manager, Government Affairs
Entergy Nuclear Vermont Yankee, LLC (ENVY)

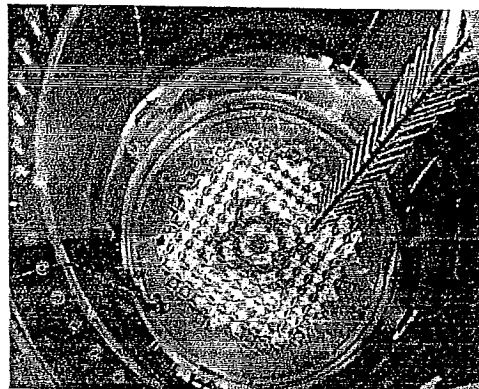
November 5, 2015

VY Current Plant Status & Milestones

- › Vermont Yankee Nuclear Power Station (VYNPS) ceased power operations on December 29, 2014 after 633 days of continuous power operation – a record for the VY site.
- › On January 12, 2015, all nuclear fuel was removed from the reactor and placed in the Spent Fuel Pool (SFP).
- › On January 12, 2015, VYNPS certified to the NRC that the reactor had permanently ceased operations and was permanently defueled.
- › VYNPS continues to be overseen by the Nuclear Regulatory Commission's (NRC) as part of its Decommissioning Inspection Program.
- › The focus of VYNPS and its employees continues to be our ongoing commitment to safety.



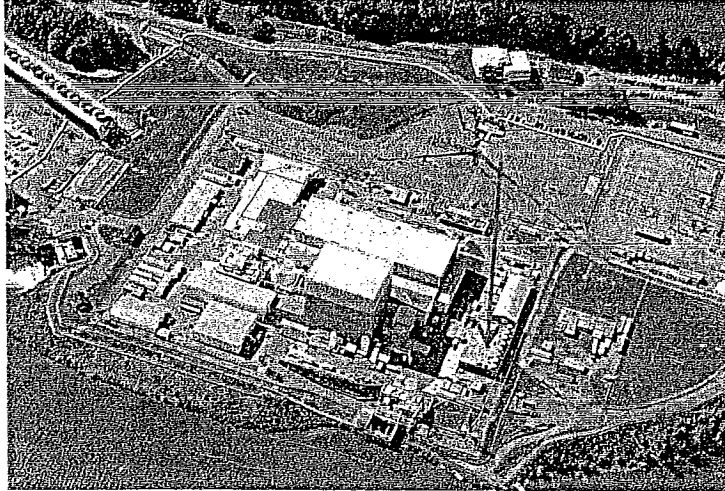
Spent Fuel Management



Current Dry Fuel Storage Status

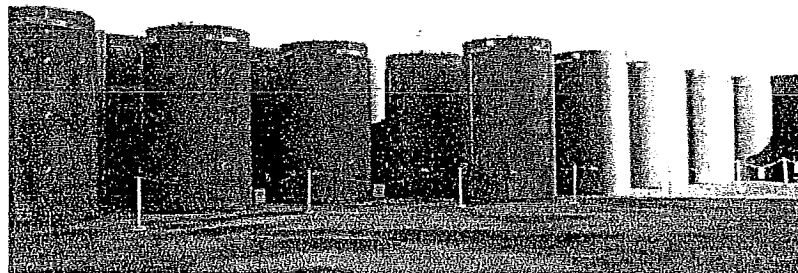
- Thirteen (13) Dry Fuel Storage Casks are safely loaded and stored on the first of two (2) Independent Spent Fuel Storage Installation (ISFSI) pads.
- Application for a second ISFSI pad was submitted on June 30, 2014 to the Vermont Public Service Board (PSB) seeking a Certificate of Public Good (CPG). Approval expected in May 2016
- An additional forty-five (45) Dry Fuel Storage Casks for a total of fifty-eight (58) will be loaded and stored on the two pads.
- Current plan is to transfer all spent fuel to Dry Cask Storage by 2020.

Independent Spent Fuel Storage Installation (ISFSI)



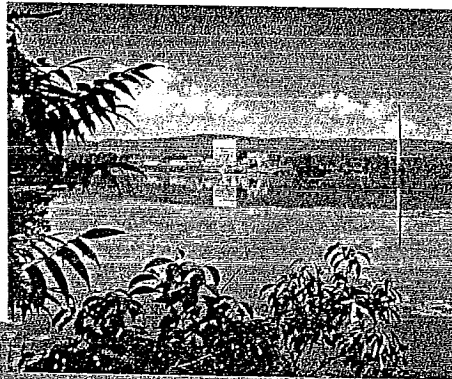
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Independent Spent Fuel Storage Installation (ISFSI)



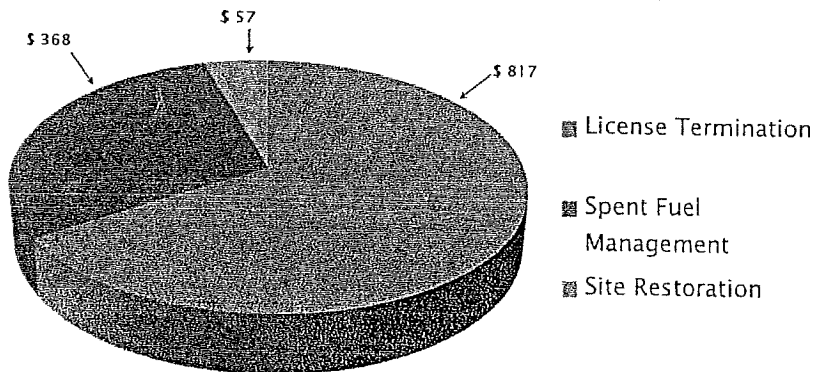
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Decommissioning Cost Estimate



Decommissioning Cost Estimate Breakdown

Total Cost Breakdown (2014 \$ in Millions)



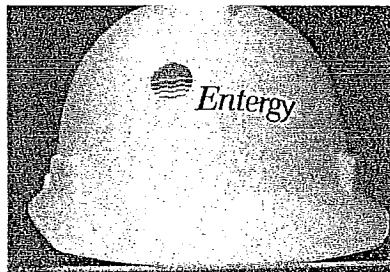
Total Cost = \$ 1.242B

Decommissioning Cost Estimate and Nuclear Decommissioning Trust (NDT)

- Spent Fuel Management - \$368 Million
 - Operational costs - \$225 Million
 - Transfer to dry storage - \$143 Million
- To fund “transfer to dry storage”, ENVY established two (2) credit lines totaling \$145 Million
- Reduces Spent Fuel Management impact to NDT

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Decommissioning Project Status/Issues



VY Decommissioning Update

The focus of Entergy Vermont Yankee (VY) and its Employees continues to be our ongoing commitment to Safety.

- › Decommissioning Preparation Activities
 - System Draining/Lay-Up
 - Building Power and Services Removal - Ongoing
 - Security Modifications/Enhancements Ongoing
- › Completed Select Structure/Building Removal
- › Emergency Plan Drill Conducted – October 21, 2015
 - Part of ongoing training and Emergency Response Organization (ERO) qualifications.
- › Completion of Second ISFSI Pad and Commence Transfer of Remaining Spent Fuel from Pool to Pad

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Open Communication and Transparency

- › Nuclear Decommissioning Citizens Advisory Panel (NDCAP) – Next meeting November 12th at 6:00 p.m. in Vernon (Elementary School)
- › Stakeholder Outreach: Speaking Engagements, Community Involvement, and Facility Tours
- › Employee Communications
 - 'Making the Transition' Website
- › Vermont Yankee Decommissioning website:
www.vydecommissioning.com



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SAFSTOR MATTERS

BCTV 2015 *Series of the Year*



Decommissioning Overview



Emergency Planning



Spent Fuel Management



Economic Impact



Decommissioning Update



Decommissioning
Maine Yankee

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Questions?



Contact Entergy Government Affairs
Entergy Nuclear Vermont Yankee, LLC (ENVY)

Work: (802)-258-4107

Cell: (508)-728-1421

Email: jlynch4@entergy.com

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Joint Community Advisory Board

Draft Letter

to the

New England Delegation

regarding

Removal of Spent Nuclear Fuel from
the States of MA, CT, VT and ME

Maine Yankee Community Advisory Panel on Spent Nuclear Fuel Storage & Removal- Yankee Rowe Spent Fuel Storage & Removal Community Advisory Board - Connecticut Yankee Fuel Storage Advisory Committee - Vermont Nuclear Decommissioning Citizens Advisory Board

Date

The Honorable
Address

Dear (name of Member)

We represent the four New England community advisory groups for the former nuclear power plant sites in our communities that continue to store spent nuclear fuel (SNF) and high-level radioactive waste (HLW) because the federal government has failed to meet its contractual and statutory obligations under the Nuclear Waste Policy Act of 1982 to remove this material beginning in 1998 from Maine Yankee, Connecticut Yankee, Yankee Rowe, and Vermont Yankee. The ratepayers of New England have paid for the removal and disposal of the SNF/HLW and have received nothing in return. We are writing to you and other members of the New England delegation urging meaningful action in this session of Congress to overcome the national nuclear waste management policy impasse. Indefinite on-site storage of this material stranded in the communities we live and work in is unacceptable.

We believe that the federal government can meet its obligation in the nearer term by implementing a pilot consolidated interim storage project focused initially on the removal of SNF from sites without an operating reactor as has been proposed in the Senate's Nuclear Waste Administration Act of 2015 (S 854), the Senate's FY-2016 Energy & Water Development Appropriations bill (H.R 2028), and the Interim Consolidated Storage Act of 2015 (H.R. 3643) that was recently introduced in the House. The pilot concept has bipartisan support; was a recommendation of the 2012 President's Blue Ribbon Commission on America's Nuclear Future; and is a milestone in the Department of Energy's 2013 report, "Strategy for the Management and Disposal of Used Nuclear Fuel and High-Level Radioactive Waste".

Consolidating SNF from the shutdown reactor sites would return these sites to productive use in the host communities, make the storage and security of this material more efficient, more cost effective, and arguably more safe while ending the federal government's increasing liability at these sites. We are encouraged by news of the two entities in Texas and New Mexico proposing to license, construct and operate CIS facilities in volunteer host communities with plans to be operational in the 2020 timeframe. We strongly urge your support of legislation that directs DOE to engage with entities and communities interested in storing the SNF/HLW from our sites on an interim basis. Progress toward a repository must also occur, but not at the expense of addressing the needs of our communities that could be achieved in the nearer term.

We are counting on your leadership to resolve this critical community issue and await your reply.

Sincerely,

W. Donald Hudson, Jr. Ph.D., Chair,
Maine Yankee Community Advisory Panel on Spent Fuel Storage & Removal
26 Mosquito Run
Arrowsic, Maine 04530

Leonard J. Laffond, Chair,
Yankee Rowe Spent Fuel Storage & Removal Community Advisory Board
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Rowe, MA 01367

Melissa Schlag, Chair,
Connecticut Yankee Fuel Storage Advisory Committee
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30 Field Park Drive
Haddam, CT 06438

Kate O'Connor, Chair,
Vermont Yankee Nuclear Decommissioning Citizen's Advisory Panel
(address)