Title Slide

2017 : A-111 115kV line before Asset Condition project construction:

2022: A-111 115kV line after Asset Condition project construction:

- Project title, date of PAC meeting, and name of presenter
- Agenda
- Outline of sections included in presentation
- Project Background
- State and location
- All “outreach” documents sent to towns, ROW owners and project abutters. This “outreach” must now include proof of notification to all the above, of the PAC presentation date, an explanation that an Asset Condition project has not been deemed necessary for system reliability and is essentially without oversight. Everource or other corporations can not be the only ones presenting project information to those affected by the project.
- Facility information such as voltage level, existing and proposed conductor sizes (336, 795) amperage range, type of conductor (ASCR, ASCC) on all sections of the line; current line clearance, whether line has been strung for lower sag; date of construction and/or “upgrades”, ~~or~~ substation configurations, materials, etc. including all potential toxins in substations (PCBs in transformers, caulking, materials abutting caulking, asbestos, PFAs,) transmission infrastructure information: size of poles and potential toxins, toxins on wires (PFAS) and conductors, in pole treatments and pesticides used on the line (Agent White, used on the X-178 (as was Agent Orange) is persistent in soils.)
- Any relevant prior projects and PAC/TCA presentations (with links) including cancelled projects, and costs
- Related ~~Efforts~~ (A corporation, not having a body or mind, cannot engage in ‘efforts’.) Related Actions and Documents? Plans, projects, mowing, clearing, permanent ROW access acquisition, Northern Pass former route, project mailers describing a project as for reliability.
- • Discussion of larger asset condition ~~effort~~ projects in the corporation’s service area, what these add up to so far/how many millions of dollars have been added to the rate base ~~For example, copper conductor or laminate structure replacement programs~~ Documentation of reliability of existing conductor; ground wire and structure; and comparison to documented reliability of proposed conductor (and explanation why it is larger if it is), reliability of structures and OPGW (Optical Ground Wire) with a cost benefit analysis of proposed vs. alternatives including no-action.
- Maps and Diagrams that include parcel lines; conservation land; recreational locations including trails and the Appalachian Trail, National and NH Register of Historic Places

properties, any proposed destruction of groundcover/removal of topsoil, location of any industrial site with groundwater or air pollution that could affect the proposed project (ie increase corrosion rates of steel poles.)

- ~~Geographic~~ Topographic map with location of project highlighted

- All questions presented to the corporation proposing the project by towns; abutters; ROW landowners and answers provided by the corporation.

- • ~~Representative~~ photos showing all aspects of the existing line; wetlands ponds ledge; conserved areas; ledges; ~~or~~ diagrams of existing facilities (aerial photo of substation, right-of-way cross-sections, etc.) existing and proposed clearances for line; construction plans; project presentations to the public by the applicant. Photographs of existing and proposed structures side by side, at scale for comparison.

  • One-line diagrams may be included if necessary, but will likely make presentation CEII

- Project Drivers; ROI for all asset condition project costs so far.

- Discussion and proof of asset condition ~~issues~~, including all pole and conductor/shield wire inspection reports for the past 10 years. ~~such as age or material-related issues, physical deterioration, altered/diminished performance~~, history of mis-operation, records of equipment failure, lightning strikes, equipment that is susceptible to failure, flooding, etc. with documentation of the same.

- Relevant industry/regional standards that the facilities do not currently meet, such as NPCC Directories, National Electric Safety Code (NESC) standards, etc. and specific locations where these Codes are not met and in what way.

- •~~Representative photos that illustrate identified asset condition issue~~ These have been used to mislead people and and pole inspection reports will provide the real data. From now on, transmission infrastructure inspections will need to be done by a third party.

- Corporate First Choice and Alternatives ~~Solutions~~ (Implies there are problems, which has not been proven for any of the Eversource Transmission Asset Condition projects.)

- ~~If realistic/feasible alternatives exist,~~ (Of course they do) a discussion of alternatives including no action (if indicated by pole inspection reports,) replacement with identical equipment if replacement is proven to be necessary,) DLR (Dynamic Line Rating,) simultaneous HVAC/HVDC transmission, Topology Optimization, conservation, rationing and incentives for reduced conservation (including pegging monthly connection fee to consumption level) will be included. Addiction to electricity is of the most destructive addictions; to the planet and those on it.

- Each alternative; will include scope, benefits, drawbacks (including externalized costs), and PTF / Non-PTF cost estimates ~~if available~~ and will include life-cycle costs and carbon/methane footprint. For conductors, ground wire and structures these will be gleaned from real use, not structures and conductors removed due to a set age regardless of their condition .

- •Discussion ~~should~~ must ~~explain rationale for~~ provide proof of the cost, environmental and aesthetic superiority ~~selection~~ of preferred solution.

- Documentation of all proposed conductor locations where required clearance is exceeded. Toxins in all proposed products (pfas in OPGW, chemicals in steel pole treatments,) largest conductor (weight and clearance) the proposed structures can carry, whether the proposed structures can be extended in height, specific type of structure proposed, for example, something more helpful than "Weathering Steel" and a website link for a manufacturer of many pole sizes and types.

- Scope of Work and Cost Estimate for ~~Preferred Solution~~ all alternatives; and Corporate First Choice project.

- • Cost estimate and a scope of work that describes planned changes to PTF lines and substations with proof of need for the same.

- • If cost estimates, and project plans are not at Conceptual level (-25%/50%) or stakeholder contact documents and stakeholder (includes town, landowners, residents, non-residents, rate-payers, anyone) feedback is not in hand, a second PAC presentation will be required

- ~~Description of Any Associated Non-PTF Work~~

- High level description and cost estimates for any non-PTF or distribution work to be completed as part of the project and proof of need for the same.

- Summary

- Includes a summary of the scope of work, public input and questions, corporate response to public input and questions for ~~from~~ the Corporate First Choice and alternative ~~solution~~ proposals ~~slide,~~ cost estimates for work on the PTF and non-PTF, target start of construction date and proposed in-service date

- Feedback/Next Steps

- A month before the X-178 PAC presentation, Eversource will publish notification in three local newspapers, and provide notification to all ROW landowners, towns, abutters and anyone to whom they have sent information on the X-178 line so-called Asset

Condition project, of the date and time and link for the PAC meeting at which it will present its proposal for the X-178 line.

Any corporation proposing asset condition projects will publish notification in three local newpapers and notify everyone to whom it has sent project information, towns, abutters, ROW landowners, of the PAC presentations for its projects.

- Presentations will provide an email address for stakeholder (includes the public) comments

- NETOs will request that stakeholders submit comments within ~~15~~ 30 days following PAC meeting

- ~~Responses to any comments received from this process will be posted, in writing, to the ISO-NE PAC webpage for all PAC members to review~~

- All questions and responses from the public to the corporation proposing the "Asset Condition" project will be posted ~~in writing,~~ to the ISO-NE webpage for the public and PAC to review

- Presentations will include an anticipated schedule for any future PAC presentations related to the project

- A PAC presentation must be completed before a Proposed Plan Application (PPA) or Transmission Cost Allocation (TCA) application can be submitted for a project

- ISO-NE Planning Procedure No. 5-1 and Section I.3.9 of the ISO-NE Transmission, Markets, and Services Tariff include timing requirements for the submission of PPAs (at least 60 days prior to making modifications to the transmission system, and longer in some circumstances)

- ISO-NE Planning Procedure No. 4 includes a requirement that TCA applications be submitted prior to the start of Major Construction. If a TCA application cannot be submitted, a cost update must be provided to the RC

- ~~•Additionally,~~ NETOs ~~usually~~ must provide PAC presentations before starting public "outreach" and of course, significant siting and permitting activities

- •NETOs ~~are not proposing to~~ must add specific timing requirements to the PAC presentation guidelines

- •Combination of Planning Procedure requirements and siting/permitting practices ensure that major asset condition projects will be presented to PAC with time for stakeholder (this includes the public) feedback prior to the start of ~~construction~~ planning and further

outreach. Communicating with those affected by a proposed project is necessary to save costs and avoid damage and exploitation (remember Northern Pass.)

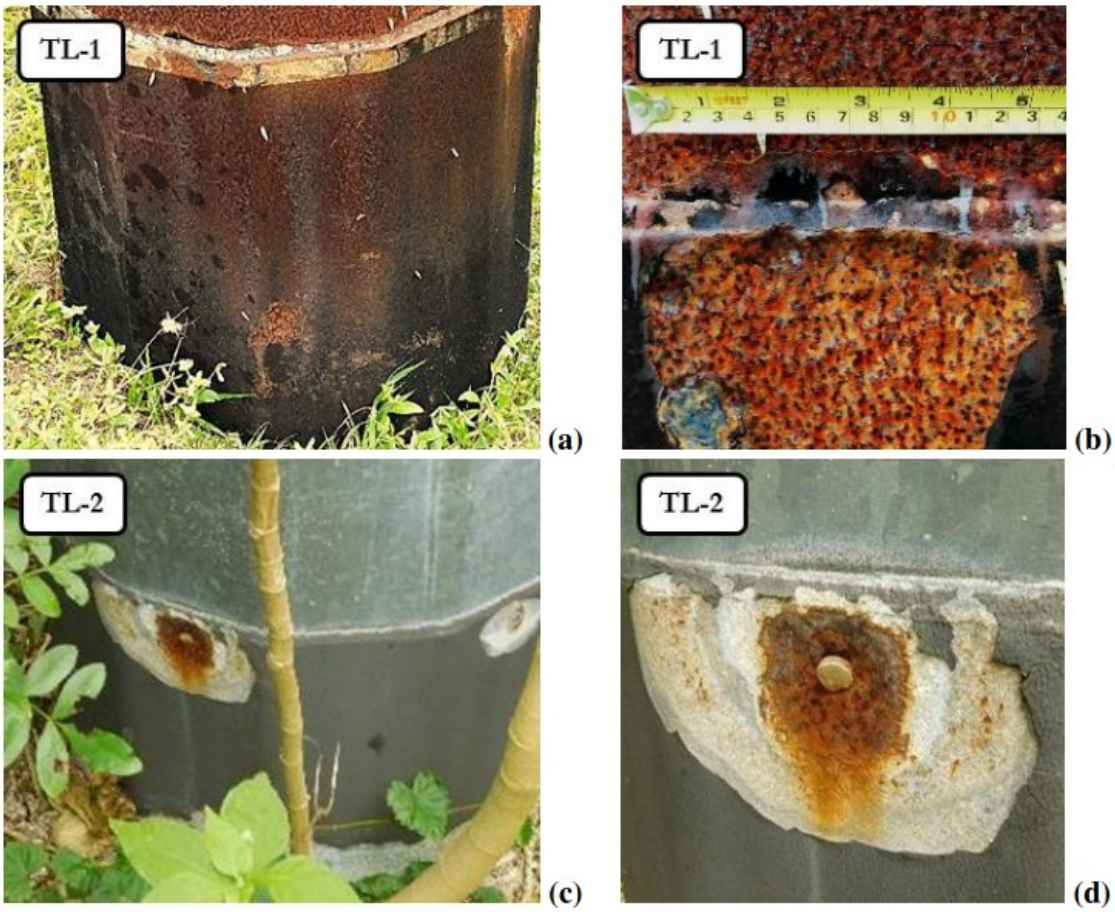


Figure 3.20 Damage around coating region in WS Pole TL-1 and GS Pole TL-2 near ocean: (a) deterioration of Pole TL-1 coating with visible pits; (b) pitting and pack-rust corrosion damage at Pole TL-1 coating lip; (c) coating delamination around bolted sleeve on Pole TL-2; and (d) crevice corrosion on Pole TL-2.

Stop using the word “health” to describe infrastructure that is not alive, eg “Asset Health.”

https://scholarcommons.sc.edu/cgi/viewcontent.cgi?article=4835&context=etd

Below, standard deceptive and wholly inadequate project information provided by Eversource.

Implication that project has been approved as necessary for reliability. No dimensions given for proposed structures, no information on increased size/amperage conductors, no information on extensive and permanent road construction, no information on earth-moving to build 100’ x 100’ construction pads, no information on massive amounts of gravel imported and spread, no information on machinery that will be brought in for construction, no proof that the existing structures need replacement.

kris pastoriza August 19, 2023

Beebe River to Whitefield (X178) Line Rebuild Project

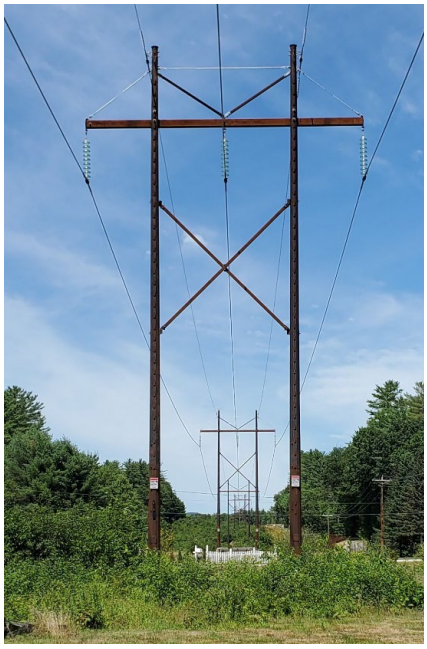
EVERSOURCE

Improving the Reliability of the Electric System across New Hampshire

Project Overview

As part of our ongoing investments to deliver reliable energy to our customers and communities, Eversource will be replacing existing wooden pole structures, in Campton, Thornton, Lincoln, Woodstock, Easton, Sugar Hill, Bethlehem, Dalton and Whitefield, N.H.

- This work will be taking place within the existing right-of-way (power line corridor) of the X178 Line, a 115-kV transmission line.
- The line is 49 miles long and is located between the Beebe River Substation in Campton, and the Whitefield Substation in Whitefield, N.H.
- In total, 570 wooden H-frame structures will be replaced, new conductor (power line) and fiber optic cable, known as Optical Ground Wire (OPGW) will be installed the length of the line.
- This project will be split into three segments (map on reverse of this sheet) with overlapping construction schedules in order to complete work in a safe and efficient manner.



Example of structure to be installed

Always Working to Serve You Better

Eversource is making a significant investment in electric infrastructure in order to provide enhanced system reliability for local communities. The new steel structures will be more resilient and less susceptible to woodpecker damage, insect damage and pole rot. The new structures will also have reliability enhancements to protect the system from damage due to severe weather, including floods.

The OPGW that is being installed on this line enables faster and more reliable communication between Eversource's substations (the communication is not related to any cellular or telecom service). This communication allows for increased visibility of our system, quicker response times for system issues, increased automation, reduces outages and their length, and, overall, improves reliability across the electric system.

What You Can Expect

We intend to rebuild the line in the same location it is today, with some variations. We attempted to minimize structure height increases wherever possible, while ensuring current electrical standards and safety clearances are met and while also balancing other important considerations, such as environmental impacts. Regional project information sessions will be scheduled in the coming months where you can learn more about this project from team members who will be available to provide information and answer your questions.

Anticipated Project Schedule

(schedule is subject to change due to weather or other unexpected circumstances

- Project Information Sessions: 3rd Quarter 2023
- Permitting: Beginning 2nd Quarter 2023
- Construction: 3rd Quarter 2024 through 4th Quarter 2026 (duration includes all three segments)
- Site Restoration: Ongoing through construction for stabilization and upon completion

Project Representatives are available to answer your questions.
Please contact us at your convenience.

Call 1-888-926-5334 or email NHProjectsInfo@eversource.com for more information

4/2023