Eversource, before your presentation to the PAC, provide data supporting your 1/25/2024 NETO database ages and conductor sizes for the X-178, and provide info. on the O-154, D-142, W-179 and S-136, which are missing from this list.

length built to				% original			last	next	
current size age			structures remaining				inspection		
		47	100 0 (AXXX 10).						
X178-1	14.12 1969	55	795 ACSR 36/1	175	96.8	Wood	2023	2025	
X178-2	20.91 1969	55	795 ACSR 36/1	232		Wood	2023	2025	
X178-3	14.10 1969	55	795 ACSR 36/1	187		Wood	2023	2025	

Also provide the % of original structures remaining on the so-called X-178-2 and X-178-3, and the location of these sections.

Since the X-178 was inspected in 2018/19, why did Eversource have it inspected again in 2023?

The X-178 was built in 1948 at 336 ASCR.

The section from Beebe River to the Streeter Pond tap was rebuilt in 1986 at 795 ASCR.

The asset list does not provide the section starts and end points of the new subdivisions of the X-178.

"ISO - NEW ENGLAND INC. POOL TRANSMISSION FACILITIES (PTF) Final IN-SERVICE AS OF January 1, 2019" list states that all of the X-178 is 795 ASCR:

Whitefield - Streeter Pond (X178)	115	795 ACSR	ОН	1	14.80	14.80
Streeter Pond - Woodstock - Beebe River (X178)	115	795 ACSR	ОН	1	34.90	34.90

Testimony by Robert D. Andrew for the proposed Northern Pass/Eversource project stated:

"PSNH acquired the rights for this ROW during the late 1940's and built the X178 line in that corridor in approximately 1948. Since 1948, PSNH has not installed any additional transmission lines in this ROW. The lines have changed very little since the initial installation, with the exception of a segment of the X178 line that was **rebuilt in 1986** with a larger conductor in order to facilitate the interconnection of the Hydro Québec DC line, Phase 1."

In a 1985 letter (below) to the USFS, PSNH stated that the existing X-178 line was built in 1948 at 336 ASCR, and that the section from Beebe River to Sugar Hill (Streeter Pond?) at least, was still the original structures and conductor.

If PSNH had rebuilt this part of the X-178 in 1969, it would presumably have not forgotten this fact by 1985.



## Public Service of New Hampship

May 2, 1985

Mr. Arthur V. Giglielle United States Forest Service Ammonoome District White Noustain National Forest Trudesu Road Bethlebos, NR 03574

Dear Mr. Gigliello:

Public Service Company of New Hompshire's 115 kV transmission time 2-178 between Seebe Siver substation in Campton, New Respetite sad Sugat Hill, New Hampshire must be upgraded as a part of the Hydro (meter thas a power import, Approximately nine (9) miles of this line between Woodship and Essten, New Hampshire is located within the White Homelain Sational Porests.

The chart that follows compares the existing and proposed facilities:

	Existing	Propused
Year Constructed	1948	1985-1986
Structure Type	Wood B-Frame	Wood H-Franc
Drawing Numbers	4-21-1:4-21-11:4-21-23	R-6750-25,77,76
Average Height	55.1	601
Conductor Size	336,400 Circular Mils	745,000 Circular Mile

"Public Service Company of New Hampshire's 115kV transmission line X-178 between Beebe River substation in Campton, New Hampshire and Sugar Hill, New Hampshire must be upgraded as a part of the Hydro-Quebec Phase 1 power import. Approximately nine (9) miles of this line between Woodstock and Easton, New Hampshire is located within the White Mountain National Forest."

(WMNF archives, Campton, N.H.)

Eversource's 2023 construction descriptions of the X-178:

- **Segment 1** is located between the Beebe River Substation in Campton and the North Woodstock Substation in Woodstock.
- **Segment 2** is located between the North Woodstock Substation in Woodstock and the Streeter Pond Tap in Sugar Hill.
- **Segment 3** is located between the Streeter Pond Tap in Sugar Hill and the Whitefield Substation in Whitefield.

The O-154 line was constructed in 1946.

Inspection tags from a 1946 O-154 pole and X-178 pole east of the Streeter Pond (Sugar Hill) substation have almost identical inspection/treatment tags:

O-154 1946 pole with treatment tags

X-178 pole, east of Streeter Pond substation



1982, 1990, 2003, 2012, 2019



1982, 1991, 2001, 2011, 2019

Pole treatments were also done in 1962:

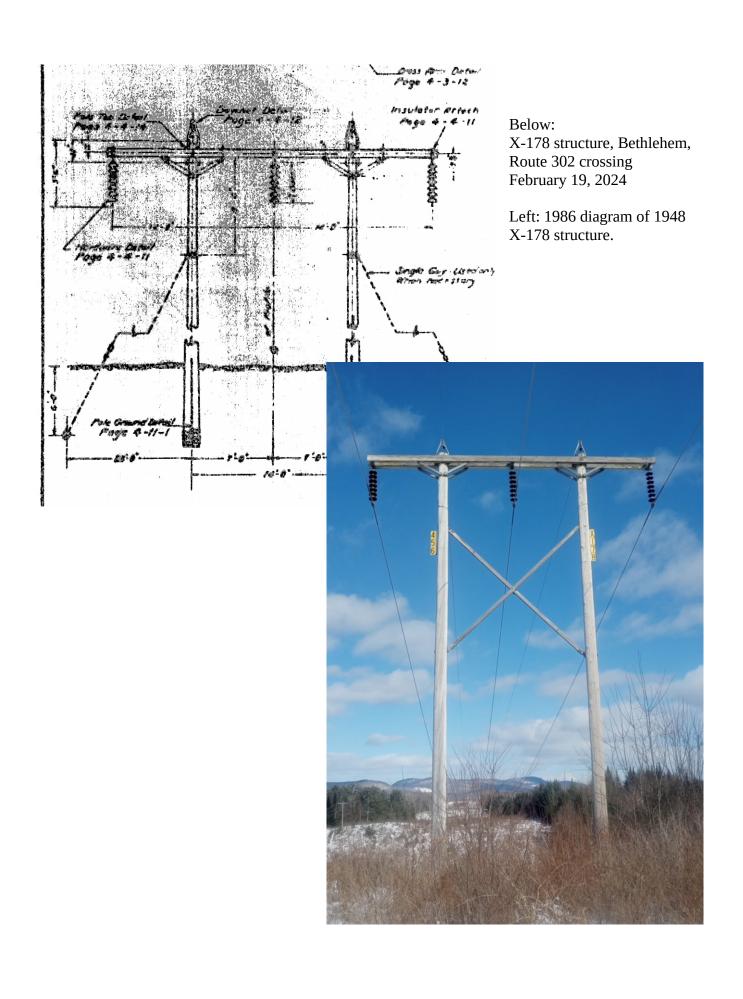
<u>5/10/62</u>: Pole treatment: "It is our understanding that the treatment consists of the application of a 6 percent solution of pentachlorophenol in number 2 fuel oil to the entire pole and cross arms and that the fire hazard created by this application continues for 24-36 hours...The area of high hazard is in the immediate vicinity of the pole where the oil drips into the ground." (WMNF document)

Below: Poles on the Beebe River to Streeter Pond section of the easement have, generally, inspection/treatment tags for 2001, 2011 and 2019, consistent with a first inspection twelve to thirteen years after (1986) construction.





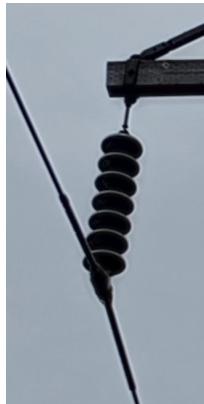
Existing structures on the X-178 northeast of the Streeter Pond substation have the same appearance as the diagram of existing 1948 structures in PSNH's 1985 letter to the Forest Service:



X-178 structure, opposite Sugar Hill substation, Route 18/116. The conductor attachment to the insulators differs also. 1948 right, 1986, below right.







kris pastoriza February 19, 2024