Agenda

III. Market Issues
   A. Paper – History of H-Frame performance and testing protocol
   B. ASCE Task Committee on wood pole structures
   C. SCS Life Cycle Assessment on steel poles
   D. FEMA language, RP 9526.1 Appendix A Update

IV. Emerging Issues
   A. Penta-treated poles in North Hampstead, New York
   B. Vermont Public Service Board investigation of penta poles

North American Wood Pole Council

September 9, 2014

Supervisor Judi Bosworth & Council Members
Town of North Hempstead
220 Plandome Road
Manhasset, NY 11030

Re: Proposed Local Law Requiring Warning Labels on Treated-wood Utility Poles

Dear Supervisor Judi Bosworth, Councilwoman Viviana Russell, Councilman Peter Zuckerman, Councilman Angelo Ferrara, Councilwoman Anna Kaplan, Councilwoman Lee Seeman and Councilwoman Dina DeGiorgio:

The North American Wood Pole Council (NAWPC) would like to voice its strong opposition to the proposed ordinance that would require placement of warning signs on "wood utility poles that are treated with hazardous chemicals". The following comments should be considered as supplemental to those contained in our August 12, 2014, letter to you when the proposed ordinance would have applied only to poles treated with pentachlorophenol.

NAWPC questions the basis of Section 2.C. of the proposed ordinance, which states: "This Town Board finds and determines that wood utility poles that are treated with hazardous chemicals such as pentachlorophenol, creosote, inorganic arsenic, or other similar chemicals constitute a potential danger to the public and that the public should be informed of such potential danger."

The conclusion in this statement that treated wood utility poles "constitute a potential danger to the public" is inflammatory and totally unsupported. A "danger to the public" is a serious accusation and will create unnecessary anxiety and fear in the mind of the average citizen.

A number of questions arise in the context of this rulemaking. How did the Town Board make a determination that treated wood utility poles "constitute a potential danger to the public"? What was the technical basis for this determination? What was the technical expertise of the individuals that made the determination? What level of toxicity would not be a "potential danger"? What exposure scenario was used in reaching the conclusion? What toxic response or endpoint was used in making the determination? Normally, the above information is made available to the public and regulated entities so that an adequate evaluation can be made of the accuracy and correctness of the conclusion. NAWPC is not aware of any of this information that has been provided in support of this proposed ordinance. Given this fact, it would appear that adoption of this ordinance could be challenged as being arbitrary and capricious.

As pointed out in our prior correspondence, if the wood preservatives used to treat utility poles were a "danger to the public", the EPA would not have recently re-registered these products for that use. As part of the EPA re-registration process, the EPA studied the exposure of utility linemen that have daily intimate contact with the poles and did not find an unacceptable exposure. Yet the Town is concluding that infrequent and incidental contact may constitute a "danger to the public." This conclusion is simply not supported by the facts.

12503 SE Mill Plain Blvd, Ste 205 • Vancouver, WA 98684 • 888.693.9958 • info@woodpoles.org

Agenda

V. Market Outreach and Education Programs (NAWPC/WWPI)

- **A. 2014 educational activities**
  - **i. Report: Wood Pole Structure Design Seminar on Sept. 23-25**
  - **ii. Webinar training**

WOOD POLE
STRUCTURE DESIGN SEMINAR
September 2014

Sponsored by: **North American Wood Pole Council**

Seminar conducted by: **Hi-Line Engineering** - a GDS Company

The **North American Wood Pole Council** is an independent council representing the producers and suppliers of wood poles and crossarms in North America. A primary focus of the council is to provide information to the designers, specifiers, and users of the products. Therefore, we are proud to partner with Hi-Line Engineering to bring you this seminar at no charge to utility and coop personnel.

Seminar	Dates	Cost	Location	Hotel Information
Wood Pole Structure Design	Tuesday thru Thursday **Sept. 23 & 24** 8:30am – 4:30pm **Sept. 25** 8:30am – noon	**Free to utility and coop personnel;** **$795 to all others**	**Charlotte, NC**	**Doubletree by Hilton Charlotte** 895 W. Trade Street, Charlotte, NC 28202 **Special Rates from $129**/night **704-347-0070** (book by **August 20th**)

Wood Pole Structure Design:

The student will learn to design wood electrical distribution structures. This will include calculating strength and maximum allowable spans for wind and ice loading, guy loading due to tension and wind, and non-design aspects of wood structures. Course includes an extensive design and reference guide. Students completing this seminar will earn **18 Professional Development Hours.**

I. Conductors
- A. Ruling span theory and calculation
- B. Sag and tension calculations and tables
- C. Galloping and Aeolian vibration
- D. Maximum span based on vertical and horizontal conductor separation
- E. Conductor stringing and sag measurement

II. Poles
- A. Ultimate resisting and bending moments of wood poles
- B. Transverse conductor wind load and calculations
- C. Calculation of maximum wind span for tangent poles
- D. Designing un-guyed small line angle poles and embedment
- E. Selection of pole class based on transformer weight and vertical loading

III. Pole-top Assemblies
- A. Types of horizontal and vertical pole-top assemblies
- B. Crossarm loading and maximum weight spans
- C. Characteristics and selection of pin and post type insulator assemblies
- D. Pole-top assembly strength calculations

IV. Guying and Anchoring
- A. Determination of horizontal pull based on transverse and longitudinal
- B. Calculation of total guy load as a resultant of guy lead to height ratio
- C. Soil classification and anchor selection
- D. Designing a deadend anchor/guy assembly
- E. Designing a line angle anchor/guy assembly

V. Beyond Design
- A. Wood pole and crossarm characteristics
- B. Purchasing and supply
- C. Wood preservation systems
- D. Pole manufacturing
- E. Environmental considerations

About Hi-Line Engineering and The Instructor

Hi-Line Engineering specializes in providing engineering consulting services as well as training seminars to the electric utility sector. Their mission is to impart the knowledge to allow their students to design **safe, reliable, and efficient** distribution lines. The instructor, Richard Lovelace, has over thirty years of experience in the operation, construction, maintenance, and engineering of electric distribution systems. He has provided instruction to more than 4,000 utility industry students and co-authored NRECA's *"Simplified Staking Manual for Overhead Distribution Lines."*

For more information regarding registration, course descriptions, etc. please contact **Hi-Line Engineering** at **334-887-3297** or by email to **rachael.registrations@hi-line-engineering.com**

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HiLINE ENGINEERING a GDS Company

WOODPOLES.ORG

NAWPC/EUCI Webinars

October 28, 2014

Best Practices in Pole Plant Management

Presenters: Len Martin, David Bonk – Osmose Utilities Services

November 18, 2014

Laminated Wood Poles

Presenters: Matthew Young, Robert Reisdorff – LWS, Inc.

Agenda

V. Market Outreach and Education Programs
(NAWPC/WWPI)

A. 2014 educational activities
   i. Report: Wood Pole Structure Design Seminar on Sept. 23-25
   ii. Webinar training

B. NAWPC/WWPI trade events
   i. Western Underground Committee
   ii. Int'l Lineman's Rodeo
   iii. NRECA TechAdvantage 2015

C. Utilities Survey Results
   i. Distribution survey, Osmose
   ii. Lineman Rodeo survey


Treated Wood Poles
WOODPOLES.ORG
Engineered by Nature...
...Enhanced by Technology
LINEWORKER.COM
WOODPOLES.ORG


Best Practices
In Wood Pole Plant Management
Industry Survey Results
Osmose

Agenda

VII. Publications, Digital Media (Butch Bernhardt)

- **A. Publication review**
- **B. NAWPC website**
- **C. NAWPC APP**
- **D. Other suggested opportunities or ideas – open discussion**


NAWPC
North American Wood Pole Council
About NAWPC
Members
AWPA Use Category System
Preservatives
Tech Docs
Engineering Tools
BMPs
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- Technical Library NEW!
- Sources of Supply for Quality Wood Poles and Crossarms
- Pole Supply
- Engineering and Design Information
- Case Histories
- Environmental and Wildlife
- Product Disposal
- Pole Life and Life Cycle Economics
- Wood Poles Advantages and Alternative Materials
- Wood Preservative Systems

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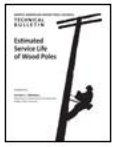
General Information

10 Features About the Extraordinary Wood Pole
10 reasons why wood poles remain the top choice for utilities across the country.
2 pages, 05/14



Technical Bulletin - Estimated Service Life of Wood Poles
Overview of the actual service life of wood poles in use, which is often much longer than what is assumed by utilities and others. *6 pages, 12/08*

*return to top of page

Supply Sources

Western Wood Pole and Crossarm Suppliers
Directory of Western wood pole and crossarm manufacturers, with sales contact information.
1 page, 07/14

Southern Wood Pole and Crossarm Suppliers
Directory of Southern wood pole and crossarm manufacturers,