HISTORY OF THE NESC®

- 1914 Work Rules Codified
  - 1915 Construction Standards added
  - 1915 1st NESC Conference (New York)

- 1918 First full code adopted

- 1973 IEEE becomes Administrative Secretary
  - The Committees of the NESC are independent of the IEEE

- 1993
  - Code Cycle extended to 5 years from 3 years
THE NESC® STRUCTURE

SC1
Coordination
Sections 1, 2 and 3
Coordinate between technical subcommittees

SC2
Grounding Methods
Section 9

SC3
Electric Supply Stations
Sections 10-19

SC4
Overhead Lines Clearances
Sections 20-23

SC5
Overhead Lines Strength and Loading
Sections 24-27

SC7
Underground Lines Sections 30-39

SC8
Work Rules Sections 40-43
SOME USES OF THE NESC®

- **The NESC indicates that utilities should**
  - replace or reinforce poles when they deteriorate to two-thirds of their original required strength. These weak poles, sometimes termed “danger poles" or "hazard poles," can create safety risks and prove more prone to breaking during storms.

- **The NESC determines safe separation of services**
  - how far away communication facilities must be from active conductors
  - where restrictions must be for unqualified workers
  - safe and proper grounding
TOOLS DEVELOPMENT
THE NESC® “CONTENT” STRATEGY

- **NESC Content will be developed in multiple forms**
  - Traditional Standards Content
  - Contributions from Subject Matter Experts
  - in written form
  - in lecture form
  - Situational “real world” content
  - photos/videos

- **NESC Content will be utilized in multiple ways**
  - Books and Handbooks
  - Online Training
  - Mobile Applications
A representation of the Code text will be interspersed with commentary, including diagrams, pictures and historical content.
THE NESC® HANDBOOK IN SPANISH & CHINESE

Spanish Edition: Code in English + Commentary in Spanish

Chinese Edition: 100% in Chinese, Code + Commentary
MULTI-MEDIA, ELEARNING & EDUCATION

7 eLearning Courses now Available

Courses Leverage:

- Lectures
- Diagrams
- Videos

Coming soon in Spanish & Chinese (close captioned)
THE NESC® AS A MOBILE APP

- **Standard Content**
  - Print/PDF

- **Multi-media**
  - Lecture
  - Video

- **Mathematical References**
  - Tables
  - Equations
  - Solver

- **Historical Content**
OUR STANDARDS PROCESS
SUPPORT TO LOCAL AND REGIONAL CODES

- The NESC can be used as a baseline
- New “regional” codes can be developed Nationally or in cooperation amongst a group of countries.
- Local codes can be developed through the IEEE Standards Process as a local working group of the IEEE SA
- Alternative approaches (e.g. Code development through independent Consortia/Alliance) can also be supported by the IEEE SA
- The learning and the expertise (human resources) of the NESC can be leveraged in the development of regional codes
IEEE STANDARDS DEVELOPMENT PROCESS

Identify a Sponsor → Idea for a NEW Standard

Project Authorization Request (PAR) → Standard Draft Development By the Working Group

Maximum of 4 years

Sponsor Ballot → Standards Association Standards Board Approval

Maximum of 10 years

Revise Standards

Archive

Withdrawn Standards

Standard Document Publishing
ANY QUESTIONS...?