

# *Update on IEEE Std 524-2003*

## *Guide to the Installation of Overhead Transmission Line Conductors*

Randy Hopkins  
TG Chair

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# *Task Group Members*

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# *Purpose of Std. 524*

- “...provides general recommendations for the selection of methods, equipment, and tools that have been found to be practical for the stringing of overhead conductors and groundwires.”
- Outlines basic considerations for maintaining safe and adequate control of conductors during installation.

# *Table of Contents*

1. Overview
2. References
3. Definitions and terminology for conductor stringing equipment
4. Conductor stringing methods
5. Grounding equipment and methods
6. Communications
7. Conductor reels
8. Special requirements for mobile equipment
9. Travelers
10. Typical procedures for stringing operations
11. Special conductors
- Annexes A – N

# Changes

Expand Chapter 11 on Special Conductors;

- Add information on ACCR, ACCC, Gap, Invar
- Revise information on installation procedures for Twisted Pair conductor
- Add a spreadsheet for sagging calculations in Annexes D and F
  - Doug Harms has provided Centerpoint's spreadsheet as a starting point for consideration
  - Helps to address problems created by a shortage of experienced sagging engineers

# *Changes (cont.)*

- Update figures in all chapters with Cad drawings
  - Mark Jurgemeyer and Stanley Consultants have prepared draft of figures/sketches
- Address comments from recent reaffirmation
  - Formulas on Electrical Theory Annex B
  - Formulas on Grounding Concepts in Annex C
  - Construction tolerances on splices
  - Installation techniques on splices

# *Status*

- Submitted for reaffirmation – Spring 2009
- 1<sup>st</sup> draft of **revision** for review and comment by task group at 2010 winter meeting
- Request PAR - early 2010

# *Reaffirmation Stats*

- Sent for ballot on March 23<sup>rd</sup>
- Ballot group was a total of 66 individuals
- 52 affirmative votes  
2 negative votes with comments  
0 negative votes without comments  
3 abstention votes  
57 votes received = 86% returned, 5% abstention
- APPROVAL RATE  
52 affirmative votes  
2 negative votes with comments  
  
54 votes = 96% affirmative
- The 75% affirmation requirement was met

*Questions?*