

SUBCOMMITTEE A

Cable Construction and Design

Chair: John T. Smith, III, General Cable Corp.

Vice-Chair: John T. Nierenberg, Nierenberg Consulting Corp.

Monday, November 5, 2007



Sub A: *Cable Construction and Design*

Scope:

All issues related to materials, construction, design and manufacturing of insulated cables



SC A Working Groups and Discussion Groups

Group	Chair	Vice Chair	Title
A1DI	Vacant	Vacant	Characteristics of Insulating Materials
A2D	Orton	Liu	Characteristics of Semi-conductive Shields
A3DI	Densley	Vacant	Performance of Extruded Dielectrics
A4D	Vacant	Harp	Definition of Tree Retardant Cross-linked Polyethylene
A5I	Szaniszlo	Walcott	Properties of Identifiable Jackets
A6D	Walton	Vacant	Accelerated Electrical Aging
A7W	Caronia	Pelissou	Guide for Selecting and Testing Jackets for Underground Cables
A8W	Fee	McAuliffe	Compatibility of Cable Pulling Lubricants and Cables
A9I			Guide for Moisture Measurement in SF ₆
A10D	Tingley	Joy	Conductors
A11W	Snow	Hiranandani	Guide for Moisture Impervious Power Cables Using Metal/Plastic Laminate Sheaths
A12I	Steiner	Walker	Cable Designs Impervious to Moisture
A13W	Densley	Walton	Water Tank Test Procedures
A14D	Ramachandran	Hartlein	Power Cable Standards
A15W	Bow	Vacant	Guide for Selection and Design of Aluminum Sheaths for Power Cables
A16D	Cinquemani	Hayes	Characteristics of EPR Cables
A17W	Person	Pelissou	Guide for the Use of Extruded Shields
A18/B 12W	Jazowski	Jasek	Guide for Investigating and Analyzing Shielded Power Cable Failure on Systems Rated 5 kV through 46 kV
A19D	Campbell	Nuckles	Covered Conductors

(D = Discussion, W = Working, I = Inactive)

Announcements

- Thanks to **John T. Nierenberg** for his contribution as Subcommittee A Vice-Chair for current year (2007). John's recent change in job affiliation will limit his future ICC participation.
- Thanks to **Eric Marsden** for his contributions as Vice-Chair of WG A7W, *Guide for Selecting and Testing Jackets for Underground Cables*, and for his many other contributions to the ICC. Eric will be ending his ICC participation via retirement from Borealis Group, NA.
- Thanks to **Serge Pelissou** for taking the Vice-Chair of WG A7W, *Guide for Selecting and Testing Jackets for Underground Cables*.
- Thanks to **Serge Pelissou** for taking the Vice-Chair of WG A17W, *Guide for Selecting and Testing Jackets for Underground Cables*.
- Thanks to **Tom Campbell** and **Kim Nuckles** for taking the Chair and Vice-Chair positions, respectively, of A19D, *Covered Conductors*.
- Thanks to **Cindy Flenniken** for her contributions as Co-Chair of A2D, *Characteristics of Semi-conductive Shields*.



Announcements (continued)

- Thanks to **Xin (Carol) Liu** for taking the Vice-Chair position of A2D, *Characteristics of Semi-conductive Shields*.
- Thanks to **Margaret Jasek** for taking the Vice-Chair position of A18W/B12W, *Guide for Investigating and Analyzing Shielded Power Cable Failure on Systems Rated 5 kV through 46 kV*
- Thanks to **Jeff Joy** for agreeing to co-Chair with **Austin Tingley**, A10D, *Conductors*, a Discussion Group Re-activated at the Spring 2007 meeting.
- Certificate of appreciation for the best Sub A presentation at Spring 2007:

“Failures in PILC Cable and Accessories Analyzed at CTL

1996 - 2005”

Carlos Katz



IEEE Copyright and Patent Policy

- Newly-Instituted Procedures for Handling IEEE Copyright and Patent Policy for IEEE-approved Standards, Guides, Recommended Practice Documents.
- Jim Fitzgerald Explained these in some Detail at the Opening Session Earlier this Morning.
- Hard Copy of the Procedures are Available at the Registration Desk
- Also Available on the IEEE Website and the ICC Website



Agenda

9:15 – 9:20

Subcommittee Business and Announcements

John T. Smith, III, General Cable Corp.

John T. Nierenberg, Nierenberg Consulting Corp.

9:20 – 9:40

Wayne J. Chatterton, Ph.D. and James Steele, Utilx, **The Chemistry of Water Tree Rejuvenation**

9:40 – 10:00

Detlef Wald and Annika Smedberg, Borealis Polymers NV, **Performance of Modern Cables in Central Europe**

10:00 – 10:30

Break

10:30 – 10:50

S. Kisin, R. Eaton, J. Den Doelder, P. Caronia, Dow Chemical Wire & Cable, **Electrical Tree Initiation Revisited**

10:50 – 11:10

Pierre Argaut, Silec Cable, **Cable Design in the large 400 kV European cable systems**

11:10 – 11:30

John T. Smith, III, General Cable, **Accelerated Cable Life Test (ACLT) Results with Reduced Insulation Wall Thicknesses**

Agenda (continued)

- 11:30 – 11:50 **Essay Wen Shu and Steven Boggs**, Institute of Materials Science, University of Connecticut, **Does Dispersion Matter for Field PD Measurement of Shielded Power Cable?**
- 11:50 – 12:10 Jim Guo, Charles Xu*, and Steven Boggs, Institute of Materials Science, University of Connecticut
High Frequency Attenuation in Transmission Solid Dielectric Class Power Cable
*Presently with Underground Systems, Inc., Armonk, NY.
- 12:30 Meeting Adjourn