

SUBCOMMITTEE A

Cable Construction and Design

Chair: Albert Kong, Pacific Gas & Electric Company

Vice-Chair: Mark Walton, General Cable Corp.

Monday, October 18, 2010

Fountain Hills, AZ



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
A01I	Vacant	Vacant	Characteristics of Insulating Materials
A02I	Flenniken	Orton	Characteristics of Semi-conductive Shields
A03I	Densley	Vacant	Performance of Extruded Dielectrics
A04I	Pelissou	Harp	Definition of Tree Retardant Cross-linked Polyethylene
A05I	Szansizlo	Walcott	Properties of Identifiable Jackets
A07D	Caronia	Pelissou	Guide for Selecting and Testing Jackets for Underground Cables
A08W	Fee	McAuliffe	Compatibility of Cable Pulling Lubricants and Cables
A09I	Vacant	Vacant	Guide for Moisture Measurement in SF ₆
A10D	Joy	Witt	Conductors
A11I	Snow	Hiranandani	Guide for Moisture Impervious Power Cables Using Metal/Plastic Laminate Sheaths
A12I	Steiner	Walker	Cable Designs Impervious to Moisture
A14D	Ramachandran	Smalley	Power Cable Standards
A15I	Bow	Vacant	Guide for Selection and Design of Aluminum Sheaths for Power Cables
A16D	Cinquemani	Hayes	Characteristics of EPR Cables
A17I	Person	Pelissou	Guide for the Use of Extruded Shields
A18/B 12W	Jazowski	Jasek	Guide for Investigating and Analyzing Cable, Joint, and Termination Failures (P1511.1)
A19D	Campbell	Nuckles	Covered Conductors

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

Subcommittee Presentation Process

- **Presentations Acquired by**
 - Solicitation by Chair and/or Vice-Chair, hopefully ~ 75-90 Days Prior to ICC Meeting Date, or
 - Volunteered
- **Abstract Required ~ 45 Days Prior to Meeting**
 - For Posting to ICC Website ASAP
 - Allows Potential ICC Attendees to Preview Presentation Programs
 - Obtain Management Approval for ICC Attendance
 - Schedule Preferred WG/DG or Subcommittee Meetings Attendance
 - Printing and Shipping of Subcommittee Programs for Registration Packet
- **Full Presentation Required ~ 2 Weeks Prior to Meeting**
 - In PowerPoint Format
 - Review for Compliance with ICC Presentation Rules
 - Allows Complete Presentation Program to be Pre-Loaded Onto ICC Presentation Computer (PC) in One Step



Subcommittee Presentation Process

- **Presentations Needed from Diverse Technical Subjects within the Scope of Subcommittee**
- **Please Support the Educational Component of the ICC's Mission with Your Interesting and Informative Presentations!!!**



Announcements

- Please Turn Off Cell Phones or Place them on Vibrate
- Please Complete the Sign-In Sheets Distributed Throughout the Room w/ Name, Affiliation, Phone Number and E-mail Address as a Minimum
- During Q & A periods, please move to a Microphone, Clearly State Your Name, Affiliation and Question or Comment
- If Interested in Making a Presentation at the Spring 2011 Sub A Meeting, Please Contact the Chair (Al Kong) or the Vice-Chair (Mark D. Walton) Immediately After This Meeting or by Phone or e-mail



Announcements

- Certificate of appreciation for the best Sub A presentation at Spring 2010 ICC Meeting:

“Improving the Surface Smoothness of Semiconductive Shields”

By

- Laurent Gervat & Sébastien Quinebèche, Arkema
- Oliver Hismann, OCS Optical Control Systems GmbH



Subcommittee A Meeting Agenda

Presentation No. 1 - 2:15 - 2:50 PM

“Fluid-filled Underground Transmission Cable Condition Assessment” **Harry Orton** - Orton Consulting Engineers International, Vancouver, Canada, **Lisa Ogawa, PhD** - BC Hydro, Vancouver, Canada, (Formerly with Powertech), **David Arnold** - EPCOR, Edmonton, Alberta Canada

Presentation No. 2 - 2:50 – 3-15 PM

“500 Hz Accelerated Aging Test Distinguishes 15 kV Power Cable Performance” – **Michael Lauxman** – General Cable, **Mark Walton** – General Cable

Break – 3:15– 3:25 PM

Subcommittee A Meeting Agenda (Con't)

Presentation No. 3 – 3:25 – 3:50 PM

“600 V Rated Secondary Cable Survey” **Yingli Wen** - Consolidated Edison of New York, **Bruce Bernstein** – Consultant, **Bill Thue** – Consultant

Presentation No. 4 – 3:50- 4:15 PM

"Condition Assessment of Service Aged Belted PILC cables", **Vitaliy Yaroslavskiy** – Cable Technology Laboratories, Inc.

Presentation No. 5 - 4:15- 4:40 PM

“Effect of Ethylene Content on Bowtie Trees and Wet Electrical Performance in Filled EPR Insulation Materials”, **Amalendu Sarkar, Mark Easter, Ed Walcott, William Temple and John T. Smith, III** - General Cable Corporation

Subcommittee A Meeting Agenda (Con't)

Presentation No. 6 – 4:40 -5:05 PM

“Modeling Underground Cable Faults Utilizing Weibull and Crow-AMSAA” – **Yancy Gill, PhD** – Salt River Project

Presentation No. 7 – 5:05 - 5:30 PM

“The Impact of Transmission Cable Construction and Design on Commissioning Test Options and Results” – **Steve Campbell** – General Cable, **Ben Lanz** - IMCORP

Meeting Adjourn – 5:30 PM

Hope to See You at the Spring 2011 Meeting

in

St. Petersburg, FL

May 22-25

at the Tradewinds Island Grand Resort

