

# **SUBCOMMITTEE A**

## **Cable Construction and Design**

**Chair: Albert Kong, Pacific Gas & Electric Company**

**Vice-Chair: Mark Walton, General Cable Corp.**

**Monday, March 22, 2010  
Nashville, TN**



# 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
A1I	<b>Vacant</b>	<b>Vacant</b>	Characteristics of Insulating Materials
A2D	Flenniken	Orton	Characteristics of Semi-conductive Shields
A3I	Densley	<b>Vacant</b>	Performance of Extruded Dielectrics
A4I	Pelissou	Harp	Definition of Tree Retardant Cross-linked Polyethylene
A5I	Szaniszlo	Walcott	Properties of Identifiable Jackets
A7D	Caronia	Pelissou	Guide for Selecting and Testing Jackets for Underground Cables
A8W	Fee	McAuliffe	Compatibility of Cable Pulling Lubricants and Cables
A9I	<b>Vacant</b>	<b>Vacant</b>	Guide for Moisture Measurement in SF <sub>6</sub>
A10D	Joy	Witt	Conductors
A11W	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
A15W	Bow	<b>Vacant</b>	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)

# 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 Fall 2010 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

- Working Group A08W, IEEE 1210 *Tests for Determining Compatibility of Cable Lubricants with Wire and Cable* - Reaffirmation of this Standard was due 12/31,2009 – Reaffirmation Needed – Ask for a show of hands regarding reaffirmation – If reaffirmation of existing standard is indicated, John Fee, the WG Chair will start the reaffirmation process.



# Announcements

- Certificate of appreciation for the best Sub A presentation at Fall 2009 ICC Meeting:

**“High Frequency Signal Propagation in Tape Shielded Solid Dielectric Power Cable”**

**by**

**Jim (Jun) Guo, Institute of Material Science,  
University of Connecticut**



# **Subcommittee A Meeting Agenda**

## **No. 1 - 10:15 - 10:40**

“Modern Pipe Type Cable System - New High Voltage XLPE Cable in Pipes and Associated Accessories including Transition Joints“

**Matthias Kirchner**, Nexans High Voltage Extruded Cable Systems,  
NEXANS

## **No. 2- 10:40 - 11:05**

“Breakdown of MV Cable Jackets under Impulse Conditions”, Caryn Riley, Ray Hill, **Nigel Hampton**, NEETRAC

## **Break – 11:05 – 11:15AM**

## **No. 3 - 11:15 - 11:40**

“Development and Type Test of a 500kv XLPE Cable System”,

**Kwang-Soo Kim**, Jong-Soo Kim, Chang-Sung Go, Si-Ho Son, Han-Soo Jo, LS Cable Ltd., Republic of Korea

# **Subcommittee A Meeting Agenda (Con't)**

**No. 4 - 11:40- 12:05**

“XLPE Material Selection Characteristics to Consider for HV and EHV Cables”, **Paul Caronia**, Jeffrey Cogen, Tim Person, The Dow Chemical Company

**No. 5 - 12:05 -12:30**

“Improving Surface Smoothness of Semiconductive Shields”,  
**Laurent Gervat**, Sébastien QUINEBECHE, Arkema, France  
**Oliver Hissmann**, OCS, Germany

Meeting Adjourn – **12:30**

**Hope to See You at the Fall, 2010 Meeting**

**in**

**Scottsdale/Fountain Hills, AZ**

**October 17-20**

**at the Radisson at Ft. McDowell**

