IEEE Insulated Conductors Committee Meeting

St. Petersburg Beach, FL
March 9-12, 2008

Subcommittee B

Cable Accessories

SUBCOMMITTEE B

Chairman: Tom Champion, NEETRAC / Georgia Tech
Vice Chairman: Harry Yaworski, tyco / Raychem

- **Scope:** *All issues related to cable terminations, joints and auxiliary systems.*
- **Mission Statement:** *The Accessories Subcommittee's mission is to continuously improve the fundamental technological understanding, practical application, and safe use of accessories on conductors having applied insulation or coverings. Support the Activities, Participants and Precepts of the Insulated Conductors Committee Mission Statement.*

Highlights of the *IEEE-SA Standards Board Bylaws* on Patents in Standards

- **Duty to tell the IEEE if they know Essential Patent Claims**
- **Working Group required to request assurance**
- **Provide assurance early**
- **Assurances**
  - Shall be provided on the IEEE-SA Standards Board approved LOA form
- **Full policy available at http://standards.ieee.org/guides/bylaws/sect6-7.html#6**

IEEE Liaison

- Matt Ceglia has moved on
- NEW ICC Liaison is

Soo Kim

s.h.kim@ieee.org

Announcements

On-line registration

--How did if work?

--Any problems?

--Notify Thomas Arnold at the Registration Desk if you had any problems.

Announcements

- Job Opening

  B7, Suggested Revisions to IEEE 386

  Vice Chairman

- Contact

  Senthil Kumar, DG Chairman

  Tom Champion, Sub B Chair

  Harry Yaworski, Sub B Vice Chair

Announcements

- Sign in sheet from B1W, IEEE 48 on Cable Termination Standards
- Missing
- Please return to the chairman: Jim Braun

Policies on Presentations

DEADLINES

- Presentation time limit: Open for discussion
- Due **ONE MONTH** before meeting
  - Presentation title and one paragraph summary
  - Short biographical sketch of presenter
  - Required time for presentation
- Due **2 WEEKS** before meeting
  - Copy of presentation sent to committee chairman
- Deadlines not met, presentation will be scheduled for next meeting
- Publicity provided on ICC web site and in meeting schedule

Policies on Presentations

- Purpose in not to limit presentation of timely information
- **AT LESS THAN ONE MONTH**
  - Limited mini-presentation
  - Time limit: 10 minutes maximum
  - Info on presenter, title, one paragraph summary, and biographical sketch due by Wednesday noon before meeting
  - Publicity on announcement board at meeting ONLY

Announcements

- ***Next Meeting***
  Fall 2008 – San Antonio, TX
  October 26-29, 2008
  Grand Hyatt
- ***Following Meeting***
  Spring 2009 -- Orlando, FL
  May 17-20, 2009
  Rosen Center

Standards Status Update

APPROVED BY STANDARDS BOARD

at December 2007 Meeting

- IEEE 1610 Application Guide for 3-phase FCI's

  Chair: John Banting, Vice Chair: Fran Angerer

Standards Status Update

OPEN PARS (Project Authorization Request)

- P48 Terminations

  Chair: Jim Braun, Vice Chair: Bill Taylor

  Balloting Group Formed, Finalizing Draft

- P592 Exposed Semiconductive Shields

  Chair: Mike Malia, Vice Chair: Bob Benn

  Resolving negative ballots.

Standards Status Update

OPEN PARS (Project Authorization Request)

- P1299 Connection of Surge Arresters to Cable
  Chair: John Dupont, Vice Chair: Gael Kennedy
  Ballot group formed, starting ballot.
- P1300 Connection of GIS Switchgear to Cables
  Chair: Milan Uzelec, Vice Chair: Frank Frentzas
  Working on revision of standard.
- P1511 Guide for Investigating and Analyzing Cable, Joint, and Termination Failures
  Chair: Roy Jazowski, Vice Chair: Margaret Jasek
  Developing a new standard on cable failure analysis.

Standards Status Update

OPEN PARS (Project Authorization Request)

- P1637 Guide for Selection of Cable Terminations

  Chair: Bob Fulcomer, Vice Chair: Bill Taylor

  Balloting group formed, starting ballot.
- P1659 Copper & Aluminum Insulated Cable Connectors

  Chair: Philip Cox, Vice-chair: Open

  Working on new standard.

Discussion Groups

- **B5D Connection of Cable to GIS, IEEE 1300**

  Chair: Milan Uzelac

  Vice Chair: Frank Frentzas

- **B7D Suggested Revisions to IEEE 386**

  Chair: Gael Kennedy

  Vice Chair: Senthil Kumar

Discussion Groups

- **B19D Cable Preparation Techniques**

  Chair: Dave Crotty

  Vice Chair: David Smalley

- **B20D Impact of Filled Strand Conductor on Cable Accessories**

  Chair: Bill Taylor, 3M

  Vice Chair: Mike Walker, tyco Electronics

Awards

- Best Presentation, Spring 2007

- Barry Johnson, tyco Electronics, Inc.
- “Medium Voltage Shear Bolt Connectors—Design and Performance”

Educational Moment

- New Activity
- Training for New Sub B Members
- 5 to 10 Minute Discussion on a Topic
- Volunteer from Attendees

Encouragement

Case Studies

- Users/Utility Members
- Describe a project
- Successes/Problems
- Can be short or longer

Could be done similar to the Transnational Luncheon presentations, number of short presentations.

Next Meeting

IEEE 48 and 404

- Technical Issues to be resolved in coordinating standards
- Influence of various factors on testing criteria
- Issues in addressing reduced wall cables
- Other
- Volunteers—See Chair or Vice Chair

Topical Issues

Connector Standards

- Currently developed thru ANSI, with NEMA as the secretariat
- IEEE is developing some connector standards
  - IEEE P1283 (T&D), High Temperature Connector Operation
  - IEEE P1659 (ICC), Underground Cable Connectors

Topical Issues

- Who needs to be developing such standards?
- Does IEEE offer any advantages compared to ANSI or some other group?
- Does ANSI offer any advantages compared to IEEE or some other group?
- Where is the expertise and the participation likely to be greatest?

Topical Issues

- ANSI is an American National Standard
- IEEE would be an international standard
- What are the “problems with the existing standard?”

ANSI C119: Connectors

- C119.1—Underground Secondary Connectors
- C119.2—Underground Primary Connectors (Inactive)
- C119.3—(Inactive)
- C119.4—Connectors for Bare Overhead Conductors
- C119.5—Insulation Piercing Connectors
- C119.6—Multi-port Connector Systems ≤ 600V
- C119.7—High Operating Temperature Connectors

Open Discussion

Thank You for Your Attendance