2008 PCIC Annual Conference
Safety Subcommittee
Meeting Agenda

Tuesday, September 23, 2007
Hilton Rosewood Room
3:00pm – 5:00pm
Welcome
Safety Subcommittee Officers
Membership Update
2007 Subcommittee Meeting Minutes
IEEE Senior Memberships
IEEE Email Alias
PCIC Safety Excellence Award
IEEE IAS Electrical Safety Workshop
Electrical Safety Resource Center
Electrical Safety Forum
Agenda Continued

- ESFI
- Safety Sub Committee Products Available
- Reference Websites
- Case Studies – Unknown Arc Flash
- Working Group Reports
- Task Group for Disaster Recovery
- Standards and Regulation Activity
- 2007 Safety Subcommittee Presentations
- 2008 Safety Subcommittee Proposals
- NFPA 70E Highlights
- Adjourn
Safety Subcommittee Officers

- Chair: Jim Bowen, Powell
- Vice-Chair: Kevin Lippert, Eaton
- Secretary: Paul Sullivan, DuPont
- In-coming Secretary:
  - Ed Larsen of Square D/Schneider Electric
Membership Update

- Two copies of the Safety Subcommittee roster are being circulated

- Please review, initial by your name, and check the block for willingness to do paper review

- If you are new to the Safety Subcommittee, please provide your name at the end of the rosters, all other info comes from registration

- If any changes during the year, update your information at the Update Member Information link on the PCIC website

http://www.ieee-pcic.org/
IEEE Email Alias

- Get an IEEE email alias for FREE
- Avoid missed e-mails due to change of business or personal email address changes
- Get your email alias at the following website
  http://eleccomm.ieee.org/
2007 Safety Subcommittee Meeting Minutes

- The 2007 Safety Subcommittee meeting minutes were distributed by email to Subcommittee members

- Any corrections?

- Motion to approve?
IEEE Senior Memberships

- Receive recognition from peers for technical and professional excellence
- Receive letter of commendation to your employer
- Receive attractive wood and bronze engraved plaque
- For more information on Senior Memberships, see the following website
PCIC Safety Excellence Award

- The PCIC Safety Excellence Award is used to recognize individuals for

“outstanding dedication and contributions made to advance and accelerate the dispersion of information and knowledge impacting electrical safety through activities within and outside the Petroleum and Chemical Industry Committee”
PCIC Safety Excellence Award

- The past award recipients are
  - 1999  H Landis Floyd II
  - 2000  L. Bruce McClung
  - 2001  Ray A. Jones
  - 2002  Satish Chaparala
  - 2003  Mary Capelli-Schellpfeffer
  - 2004  Danny Liggett
  - 2005  Bill Jordan
  - 2006  David Pace
  - 2008  Tom Neal
PCIC Safety Excellence Award

- We are now accepting nominations for a 2009 award

- An email will be sent to all PCIC Safety Subcommittee meeting attendees with the nomination form

- Nominations are due by October 31, 2008
Electrical Safety Workshop 2008
Subcommittee Report
Danny Liggett-(David Pace)

www.ewh.ieee.org/cmte/ias-ew
2009 Electrical Safety Workshop

- February 2-6, 2009
- St. Louis, Missouri
- Earlier report from Ben McClung
Other Conferences and Safety Workshops

- 2008 IAS Meeting – October 5-9, Edmonton

- 2008 Electrical Safety, Technical, and Mega Projects Workshop – November 19-21

- 2009 ESW Brazil – September 23-24
  (website available later)
IEEE Electrical Safety Resource Center Website

http://standards.ieee.org/esrc
Electrical safety is a major concern among those involved in facilities construction, operation and maintenance, facilities and process design, electrical safety services, risk management, workplace safety, and regulations and standards.

A key component to electrical standards and regulation is having the information readily available at their fingertips.

The Electrical Safety Resource Center provides organizations with resources and activities to standards and organizes information about electrical safety.

If you want to be alerted here.

Quote of the Month:
"No safety know pain, know safety no pain."

IEEE Begins Work on Standard to Recommend Practices for Investigating Events at Nuclear Facilities

Past News
2008 NEC and Handbook Set Now Available!
IEEE Supporting Organization of Battery Power 2009. Register through the IEEE to Receive a Discounted Rate
IEEE Industry Application Society's 15th Electrical Safety Workshop (ESW) Focuses on Preventing Electrical Accidents
Updated IEEE Green Book now available for purchase
IEEE Releases Updated White Book™ Standard for Health Care Electrical Systems
IEEE Updates Gold Book™ Standard for Designing Reliable Industrial and Commercial Power Systems
Safety Training Courses Available Through OSHA

ACTIVITIES
IEEE latest efforts and activities directly impacting electrical safety!

RESOURCES
IEEE Electrical Safety Virtual Community
This new forum has been established to give individuals interested in electrical safety a place to obtain information, collaborate and share experiences.

NEWS
OSHA Construction eTool: Electrical Incidents
Outlines the most common electrical hazards for the construction industry and provides specific controls to help avoid injury. To access click here!
IEEE-SA Electrical Safety Forum
Virtual Communities

http://www.ieeecommunities.org/ieee.esafety?invitation_key=410-F78D0DB86C

(to register and join)
## IEEE Electrical Safety Forum

### Discussions

[Discussions] > General

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### Topic List

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To Join: Go to [https://www.ieeecommunities.org/ieee.esafety](https://www.ieeecommunities.org/ieee.esafety)
ESFi - Electrical Safety Foundation International

- Mission: To reduce electrical injuries and deaths through education
- Information on Home, School and Workplace electrical safety
- Several items available as **FREE** downloads
- Promoter of Electrical Safety Month in May of each year

http://www.esfi.org/index.php
Electrical Safety Products Available through the Safety Subcommittee

• Go to
  http://www.ewh.ieee.org/cmte/ias-esw/products.htm

• Arc Flash Video/Presentation (mannequin test)
  $75

• David Wallis Video
  $25

• Contact Danny Liggett at danny.liggett@ieee.org
IEEE/PCIC Safety Sub-Committee  
c/o Danny Liggett  
DuPont Engineering  
CDI Engineering  
955 W Sam Houston Parkway South  
Houston, TX 77099  
Phone 713-354-0616  
Fax 713-354-0694
Reference Websites

- There are several websites that are available to provide you good electrical resource information or other useful information.

- Those websites are at the end of this presentation.

- This presentation will be available at the PCIC Safety Subcommittee website after the conference.
  
  http://www.ieee-pcic.org/subcommittees/safety.html
Case Study – Arc Flash Incident in Unknown Data Center

- Low voltage
- Low energy
- Not a major manufacture’s switchgear
- Solidly grounded
- Bar bus or damaged insulation on bus
Case Study – Arc Flash Incident in Unknown Data Center

- Discussion
Working Group Reports

- Safety Considerations in Electrical Systems Design
  - Bruce McClung - Chair

- Incident Data Collection, Fax Anonymous Registry (FAR) Project
  - Dr. Mary Capelli-Schellpfeffer
Standards and Regulations Activity

- NFPA 70E
- IEEE 1584
- IEEE/NFPA Arc Flash Research Project
- P1606, American/European Electrical Work Practices
- IEEE P1716, "Managing Natural Disaster Impact on Key Electrical Systems and Installations in Petroleum and Chemical Facilities"
- IEEE P1683, Enhance Safety MCC
2008 Safety Subcommittee
Technical Session Presentations

- Wednesday, September 24
- 2:00pm to 5:00pm
- Hilton Pavillion Room
2008 Safety Subcommittee Technical Session Presentations

- Comparative Study of Arc Modeling and Arc Flash Incident Energy
  - PK, Sen, Colorado School of Mines
  - Ravel Ammerman, Colorado School Of Mines
  - Tammy Gammon, Consultant
  - John Nelson, NEI Electrical Power Systems

- Safety First: Detection of Downed Conductors & Arcing Overhead Distribution Lines
  - Mark Adamiak, GE Multilin
2008 Safety Subcommittee
Technical Session Presentations

- The Importance and Process of Auditing an Electrical Safety Program
  - John Aeiker, DuPont
  - Shahid Jamil, Imperial Oil
  - Ray Crow, DRC Consulting

- Attend these sessions to learn something and show support for these authors.
2009 Safety Subcommittee
Technical Session Proposals

- The following are the proposed Safety Subcommittee papers for 2009

- Circulate the Ballot sheets
  - Fill in circles properly (No X’s)
  - Fill in only those numbers where abstract is presented, leaving the others blank
  - Make no other marks on the sheet
2008 Paper Carry-over

- Higher Cycle Withstand MCC’s for better Selective Coordination
  - Rajiv Kumar – Eaton Corporation
  - Robert Morris – Eaton Corporation
  - Samuel Terry – Eaton Corporation
  - Doug Reed – Eaton Corporation
NFPA 70E-2009

■ “Top changes” presentation by Ray Crow

■ Discussion is invited!
Final Slide

- Any other business for now or 2009?
- Adjourn

Thanks for coming!
Reference Websites

- **PCIC Safety Subcommittee**

- **IEEE Senior Memberships**

- **IEEE Email Alias**

- **IEEE Electrical Safety Workshop**

- **IEEE Electrical Safety Resource Center**
  [http://standards.ieee.org/esrc](http://standards.ieee.org/esrc)

- **IEEE Electrical Safety Forum**
  [http://www.ieeecommunities.org/ieee.esafety?invitation_key=410-F78D0DB86C](http://www.ieeecommunities.org/ieee.esafety?invitation_key=410-F78D0DB86C)
Reference Websites

- **ESFi – Electrical Safety Foundation International**

- **NIOSH – National Institute for Occupational Safety & Health**
  [http://www.cdc.gov/niosh/](http://www.cdc.gov/niosh/)

- **OSHA – Occupational Safety & Health – Overhead Power Lines Website**

- **Electrical Contractors Industry Standards**