2009 PCIC Annual Conference
Safety Subcommittee
Meeting Agenda

Tuesday, September 15, 2009
Hilton California-B Room
3:30pm – 5:00pm
Agenda

- Welcome
- Safety Subcommittee Officers
- PCIC Safety Excellence Award
- Membership Update
- 2008 Subcommittee Meeting Minutes
- IEEE Email Alias
- Outstanding Technical Contribution Award
- IEEE IAS Electrical Safety Workshop
- IAS/PCIC Conferences and Workshops
- Electrical Safety Websites
Agenda Continued

- ESFI
- 2011 National Electrical Code
- Case Study
- Working Group Reports
- Standards and Regulation Activity
- 2009 Safety SC Paper Presentations
- 2010 Safety SC Paper Proposals
- Feature Presentation: First Aid after an Arc Flash Injury - A few things every electrical worker should know
- Adjourn
- Reference Websites
Safety Subcommittee Officers

- Chair: Kevin Lippert (Eaton)
- Vice-Chair: Paul Sullivan (DuPont)
- Secretary: Ed Larsen (Square D/ Schneider Electric)

- A new Secretary will be needed after the 2010 PCIC Conference as the current officers will rotate their position. Contact a current officer if you are interested in the Secretary position.
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 Neil
PCIC Safety Excellence Award

The recipient for 2009:

- Received 3 “1st Place Paper” awards and one “Honorable Mention” award from PCIC/USA,
- A "Top 3 Electrical Safety Presentation" award from the Electrical Safety Workshop;
- Chaired/co-chaired/coordinated 3 PCIC Electrical Safety Workshops on two different continents,
- Presented numerous papers and tutorials at international conferences
- Authored & published other numerous safety-related articles
- Developed & presented electrical safety training programs for over 1000 workers in 6 countries
- Holds BS and MS degrees in Engineering
- And has 31 years of multi-national industry experience
PCIC Safety Excellence Award

- The recipient for 2009 is:

Shahid Jamil

Congratulations!
We are now accepting nominations for the 2010 Safety Excellence award.

An email will be sent to all PCIC Safety Subcommittee members with the nomination information.

A link to the form will be posted in the Safety Subcommittee section of the PCIC website.

Nominations are due by October 31, 2009.
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
A copy of the Safety Subcommittee roster is being circulated.

Please initial by your name, and check the block for willingness to do paper reviews.

If you are not a member of the Safety Subcommittee, we invite you to become one. Please provide your name at the end of the rosters. All other info comes from the PCIC member database.

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

http://www.ieee-pcic.org/subcommittees/membership/memberupdate.html
The 2008 Safety Subcommittee meeting minutes were distributed by email to Safety Subcommittee members and posted on the Safety Sub-Committee page of the PCIC Website.

http://www.ieee-pcic.org/subcommittees/safety.html

- Any additions/corrections?
- Motion to approve?
IEEE Email Alias

- Get an IEEE email alias for FREE
- IEEE “one-stop shopping” for updating Email address
- Get your email alias at the following website

PCIC Outstanding Technical Contribution (OTC) Award

- PCIC is accepting nominations for the 2010 OTC award and requests the Safety SC submit a nomination.

- An email will be sent to all PCIC Safety Subcommittee members with the nomination information.

- The form will be posted in the Safety Subcommittee section of the PCIC website.

- Nominations are due back to one of the Safety SC officers by October 31, 2009.
IEEE IAS Electrical Safety Workshop

Mission

- Advance application of breakthrough improvements in human factors, technology, and managing systems
- Stimulate innovation
- Change and advance the electrical safety culture
IEEE IAS Electrical Safety Workshop

To accomplish our mission, we will…

- Provide forums for sharing and disseminating ideas for preventing workplace injuries from electrical hazards,

- Maintain an intimate, interactive environment, as a unique feature of the annual forum,

- Engage multiple disciplines and professions,

- And create collaboration and synergies among various centers of excellence.
2009 Electrical Safety Workshop

St. Louis, MO February 2-6, 2009

Union Station Marriott

325 Attendees
25 Presentations
43 Exhibits
2 Tutorials
  Electrical Safety Management
  Electrical Safety Basics
Two Keynote Presentations
Jeff Espenship – Target Leadership
Dr Mary Capelli-Schellpfeffer - IEEE

23 Papers

1 Panel Discussion

4 Tutorials

Plant Tours, Expo Show, and Hospitality Suites
Memphis, Tennessee February 1-5, 2010
Memphis Marriott Downtown

If you would like to spend 4 days of intense interaction with more than 400 people who share a passion for preventing electrical injuries in the workplace, you are urged to go to Memphis for the 17th annual IEEE IAS Electrical Safety Workshop.
IAS/PCIC
Conferences and Workshops

- **Other Conferences and Safety Workshops**
  - **2009 ESW Brazil** – September 23-24
  - **2009 IAS Meeting** – October 4-8, Houston
  - **2010 Electrical Safety, Technical, and Mega Projects Workshop** – Mar 29-31, Calgary
Electrical Safety Websites

- Electrical Safety Resource Center
  
  http://standards.ieee.org/esrc
Electrical Safety Websites

- IEEE SA Electrical Safety Forum
  - Virtual Communities
  - Online 24/7 Electrical Safety Community

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
2011 National Electrical Code

- Proposals for the 2011 NEC were reviewed by the Code Making Panels in January. The Report on Proposals can be found at:
  
  [Link](http://www.nfpa.org/Assets/Files/PDF/ROP/70-A2010-ROP.pdf)

- The deadline for the 2009 comments is October 23, 2009.
Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- Investigations began after 2 accidents occurred
- One alleged willful and nine alleged serious violations of OSHA regulations governing electrical hazards
- Workplace conditions allegedly contributed to two employees being burned by an electrical arc flash on April 9
Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- Alleged inadequate safety measures were in place to protect against electrical hazards at the time of the February 2 accident; however, the coroner could not determine if those conditions contributed to the final cause of death.

- "At the time of both accidents, the company's procedures for dealing with electrical hazards were inadequate. Miller-Coors needs to take the necessary steps to eliminate electrical hazards in its workplaces."
Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- The alleged willful violation stems from the company's failure to ensure the use of appropriate electrical protective equipment when employees were working on or near energized electrical parts. OSHA issues a willful violation when an employer exhibits plain indifference to or intentional disregard for employee safety and health.
Case Study – OSHA Cites Miller-Coors for Electrical Hazard Violations

- The serious violations relate to inadequate safe work practices and failure to ensure adequate personal protective equipment was available and used by employees working on or near energized equipment. OSHA issues a serious citation when death or serious physical harm is likely to result from a hazard about which an employer knew or should have known.

- OSHA proposes $128,500 in penalties against the company for the alleged violations
Standards and Regulations Activity

- NFPA 70E
- IEEE 1584
- IEEE/NFPA Arc Flash Research Project
- IEEE P1716, Managing Natural Disaster Impact
- IEEE P1683, Enhance Safety MCC
- Incident Data Collection, Fax Anonymous Registry (FAR) Project

2009 Safety Subcommittee Technical Session Presentations

- Wednesday, September 16
- 2:00pm to 5:00 pm
- Hilton California-C Room
Predicting Let-Through Arc Flash Energy for Current Limiting Circuit Breakers

- Marcelo Valdes, GE Consumer and Industrial
- Thomas Papallo, GE Consumer and Industrial
- George Roscoe, GE Consumer and Industrial

Higher Cycle Withstand MCC’s for better Selective Coordination

- Rajiv Kumar – Eaton Corporation
- Robert Morris – Eaton Corporation
- Samuel Terry – Eaton Corporation
- Douglas Reed – MWH Americas
Potential Impact of ANSI Z10 and CSA Z1000 on Reducing Electric Shock and Arc Flash Injuries

- H. Landis Floyd, DuPont

Attend these sessions to learn something and show support for these authors.
2010 Safety Subcommittee Technical Session Proposals

- The following are the proposed Safety Subcommittee papers for 2010.
2009 Paper Carry-over

- Arc Flash Hazards with Electric Fire Pump Installations
  - Richard Holub – DuPont
  - Dan Doan – DuPont
  - Robert L. Anderson – DuPont
First Aid after an Arc Flash Injury - A few things every electrical worker should know

Dr. Mary Capelli-Schellpfeffer
Final Slide

- Any other business for now or 2010?
- 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
  http://www.esfi.org/index.php

- NIOSH – National Institute for Occupational Safety & Health
  http://www.cdc.gov/niosh/

- OSHA – Occupational Safety & Health – Overhead Power Lines Website
  http://www.osha.gov/Region7/overheadpowerlines/index.html

- Electrical Contractors Industry Standards
  http://www.osha.gov/SLTC/electricalcontractors/standards.html

- IEEE Membership Updates
  http://www.ieee-pcic.org/subcommittees/membership/memberupdate.html