IEEE PCIC Standards Subcommittee Meeting
MINUTES
Tuesday, September 18, 2013 – Chicago, IL

1.0 **Call to Order**
The meeting was called to order at 12:45PM by the chair, Dennis Bogh, at the Downtown Marriott Chicago.

2.0 **Circulation of Roster**
The chair introduced the officers. There were 3 officers, 64 members, 4 guests and 3 IEEE staff representatives that attended the meeting. One member requested an excused absence. Copies of the roster were circulated for members and guests to indicate their attendance and update their information.

3.0 **Approval of Agenda**
The agenda was reviewed. Upon a duly made motion and second, the agenda was unanimously approved.

4.0 **Approval of Minutes of Last Meeting**
Rick Bried moved to accept the minutes of the September 25, 2012 meeting as written. Lorraine Padden seconded and motion was unanimously approved. The minutes are posted on the PCIC *mentor* site

5.0 **Special Presentation to Will McBride**
Dennis Bogh, Standards SC Chair, thanked the past Standards SC Chair, Will McBride, for his service leading the Standards Subcommittee.

6.0 **Codes and Regulations Subcommittee Items of Interest**
Rich Hulett gave a report on Codes and Regulations subcommittee item of interest. Presentation materials are attached to the minutes.

7.0 **Summary of Standards Subcommittee Reports**
Travis Griffith provided a summary of PCIC standards working group activities. Presentation materials are attached to these minutes.

8.0 **Special Standards Reports**
Reports were provided for the following standard activities:

P844 and the dot series	Roy Barth
P1814	Bruce McClung
IEC / IEEE 60079-30 (515)	Rich Hulett
P1458	Gary Donner
P1683	Marcelo Valdes
P1584 and the dot 1	Bruce McClung
P1566	Rick Paes

Copies of the presentations are attached to these minutes.

9.0 **Other Standards Reports**
Other standard reports were provided as follows:

API SC on Electrical Equipment	Jon Kitchel
Category D Liaison Ex “n” TC31	Paul Hamer
Category D Liaison IEC TC 18	Kevin Peterson

Copies of the presentations are attached to these minutes.

10.0 **Old Business**

Dennis Bogh, Standards SC Chair, recognized the following for publishing standards the past year:

Robert Durham	1017	RP for Field Testing Electric Submersible Pump Cable
	1018	RP for Specifying Electric Submersible Pump Cable - Ethylene Propylene Rubber Insulation
	1019	RP for Specifying Electric Submersible Pump Cable - Polypropylene Insulation
Wayne Williams	515.1	Std for the Testing, Design, Installation, & Maintenance of Electrical Resistance Heat Tracing for Commercial Applications

11.0 **New Business**

Robert Durham indicated that a new PAR will be submitted for 1886 – Electrical Submersible Pump Motors.

12.0 **Next Meeting**

The next PCIC Standards Subcommittee meeting is scheduled to be held in conjunction with the 2014 PCIC meeting September 9, 2014 in San Francisco, CA.

13.0 **Adjournment**

There being no other business to conduct, a motion was made, seconded, and passed for adjournment. The meeting was adjourned at 1:59 PM by Chair Bogh.

Standards Subcommittee Report

Codes & Regulations

Richard Hulett

2013 Petroleum and Chemical Industry Committee Technical Conference
Chicago, IL - September 24, 2013

Codes and Regs Activity

- NFPA 70 E - P. Dobrowsky
  - New NFPA process
  - Change in terminology
- Canadian Electrical Code - T. Driscoll
  - Major revisions in this cycle
  - Deadline for changes is June 2014
- US Coast Guard - A. Hossian
  - USCG interested in IEEE 45 dot series

SCC 18 Report

- NEC 2014 available in Oct 2013
- NEC 2017 begins in 2014 (Nov)
- Update on current IEEE NFPA 70 CMP membership
  - 22 current CMP principle and alternate members
  - 16 vacancies
  - Four CMP vacancies of interest for PCIC

Preliminary Code Proposal

- Gary Savage presented a prelim proposal

Cables permitted for use in Class I Division 1 and zone 1 hazardous locations

- Discussion and input
- Decision on IEEE/PCIC support at 2014 C&R meeting

End of C&R Report

17-Sep-13

PCIC Standards Working Groups

2-Jul-2013

	Title	Chair	Status	Action
303	RP for Auxillary Devices for Rotating Electrical Machines in Class 1, Div 2 and Zone 2 Locations	Art Neubauer	Published 2004 Reaffirmed 2011	New PAR is planned
463	Std for Electrical Safety Practices in Electrolytic Cell line Working Zones	Ken White	Published 2006 PAR 2011-2015 Submitted to Revcom 07/01/2013	WG in Progress
576	RP for Installation, Termination, & Testing of Insulated Power Cable as Used in Industrial and Commercial Applications	Bill Taylor	Published 2000 PAR 2008-2012 Administrative withdrawal 2012	Plan to move information to 1242
841	Std for Petroleum and Chemical Industry Severe Duty TEFC Squirrel Cage Induction Motors - Up to and Including370 kW (500 HP)	Bill Veerkamp	Published 2001 Published 2009	New PAR is planned
1017	RP for Field Testing Electric Submersible Pump Cable	Robert Durham	Published 2005 PAR 2010-2013	Submitted to RevCom March 2013 Meeting
1018	RP for Specifying Electric Submersible Pump Cable - Ethylene Propylene Rubber Insulation	Robert Durham	Published 2005 PAR 2010-2013	Submitted to RevCom March 2013 Meeting
1019	RP for Specifying Electric Submersible Pump Cable - Polypropylene Insulation	Robert Durham	Published 2005 PAR 2010-2013	Submitted to RevCom March 2013 Meeting
1068-2009/Cor 1	IEEE Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical, and Process Industries - Corrigendum 1	Chuck Yung	PAR 2011-2015	PAR Approved Feb 2011
1242	Guide for Specifying & Selecting Power, Control, and Special-Purpose Cable for Petrochemical Plants	Art Maldonado	Published 1999 Reaffirmed 2005 PAR 2010-2014	PCIC/ICC Joint Standard
1349	Guide for Application of Electric Motors in Class I, Division 2 & Class I, Zone 2 Hazardous (Classified) Locations	Lorraine Padden	Published 2001 Published 2011	Award PCIC 2012
1458	RP for the Selection, Application, Field Testing, and Life Expectancy of Molded Case Circuit Breakers for Industrial Applications	Gary Donner	Published 2005 Reaffirmation 2010	Par Approved until 12-31-2017
1566	Standard for Performance of Adjustable Frequency Drives Rated at 375 kW & Larger	Rick Paes	Published 2006 PAR 2008-2012 PAR Extension 2012-2013	WG in Progress
1584	Guide for Performing Arc Flash Hazard Calculations	Daleep Mohla	Published 2002 PAR 2003 - 2007 PAR Extension 2008-2011 PAR Extension 2011-2013 PAR Revision 3/2012	WG in progress Pre-ballot, December 2012
P1584.1	Guide for the Specification of Scope and Deliverable Requirements for an Arc-flash Hazard Calculation Study in Accordance With IEEE 1584	Daleep Mohla	PAR 2009 - 2013	2nd Ballot Recirculation Preparing to recirculate 07-01-2013
P1673	Standard for Requirements for Conduit & Cable Seals for Field Connected Wiring to Equipment in Petroleum and Chemical Industry Exposed to pressures Above Atmospheric (1.5 kilopascals, 0.22 psi)	Marty Cole	PAR 2005 - 2009 PAR Extension 2009-2013	Ready for ballot to start July 15, 2013 Submitted again to NesCom 07-01-2013
P1810	Guide for the Selection and Installation of Fire-Rated, Circuit Integrity Cables for Safety, Critical, and Emergency Shutdown Systems in Petroleum and Chemical Industries	Gil Shoshani	PAR 2009 - 2013	Extension requested, NesCom Meeting March 2013
P1683	Guide for Specifying Motor Control Centers Rated Up To 600 V AC or 1000 V DC With Features Intended to Reduce Electrial Hazards While Performing Defined Operations	Marcelo Valdes	PAR 2005 - 2009 PAR Modified 2009-2011 PAR Extension 2012-2014	WG in progress Pre-ballot, October 2012
P1714	RP for Industrial Uninterruptible (UPS) Systems	Donald Dunn	PAR 2006 - 2010 PAR Extension 2012 Administrative withdrawal 2012	
P1716	RP for Managing Natural Disaster Impact on key electrical systems and installation in Petroleum and Chemical Facilities	Ed Thornton	PAR 2006 - 2010 PAR Extension 2012 PAR Extension 2012-2013	Pre-ballot, December 2013
P1814	Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety	Bruce McClung	PAR 2009 - 2013	WG in Progress

45	Working Group for Electrical Installations on Shipboard (IAS/PCI/45_WG)	Moni Islam	PAR 2009 - 2013	No Action
P45.1	RP for Electrical Installations on Shipboard- .1 Design	Moni Islam	PAR 2008 - 2012 PAR Extension 2012-2015	WG in Progress
45.2	RP for Electrical Installations on Shipboard- .2 Controls and Automation	David Cartes	Published 2011	Award PCIC 2012
P45.3	RP for Electrical Installations on Shipboard- .3 Systems Engineering	Paul Bishop	PAR 2008 - 2012 PAR Extension 2012-2014	WG in Progress
P45.4	RP for Electrical Installations on Shipboard- .4 Marine Sectors and Mission Systems	Paul Bishop	PAR 2008 - 2012 PAR Extension 2012-2015	WG in Progress
P45.5	RP for Electrical Installations on Shipboard- .5 Safety Considerations	Dennis Neitzel	PAR 2008 - 2012 PAR Extension to 12/31/14	Draft 3 Expect completeion mid 2014

17-Sep-13

PCIC Standards Working Groups

2-Jul-2013

	Title	Chair	Status	Action
P45.6	RP for Electrical Installations on Shipboard- .6 Electrical Testing	Don Chambers	PAR 2008 - 2012 PAR Extension 2012-2017	WG in Progress
45.7	RP for Electrical Installations on Shipboard- .7 Switchboards	Steve Liggio	Published 2012	Award PCIC 2012
P45.8	RP for Electrical Installations on Shipboard- .8 Cable Systems	Gary Savage	PAR 2009 - 2013	WG in Progress
515	Std for the Testing, Design, Installation, & Maintenance of Electrical Resistance Heat Tracing for Industrial Applications	Rich Hulett	Published 1989 Published 1997 Published 2004 Published 2011	Finished, Complete, No Action
515.1	Std for the Testing, Design, Installation, & Maintenance of Electrical Resistance Heat Tracing for Commercial Applications	Wayne Williams	Published 1995 Published 2005 Published 2012	Award PCIC 2013 Finished, Complete, No Action
P60079-30-1/515	Standard for Explosive Atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements for Industrial Applications	Ben Johnson FOR IEC STUFF	PAR 2010 - 2014	WG in Progress IEC/IEEE Joint Effort; TC-31
P60079-30-2/515	Standard for Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design, installation and maintenance for Industrial Applications	Ben Johnson FOR IEC STUFF	PAR 2010 - 2014	WG in Progress IEC/IEEE Joint Effort; TC-31
844	RP for Electrical Impedance, Induction, & Skin Effect Heating of Pipelines & Vessels	Roy Barth	Published 2000 Reaffirmed March 2006	Moving/Updating information to: 844.1, 844.2, 844.3
P844.1	Standard for the Construction, Testing, and Marking for Skin Effect Heating Systems for Pipelines and Vessels	Roy Barth	PAR 2011-2015	WG in Progress
P844.2	Standard for the Construction, Testing, and Marking for Impedance, Induction, and Inductions Susceptor Heating Systems for Pipelines and Vessels	Roy Barth	PAR 2011-2015	WG in Progress
P844.3	RP for Electrical Impedance, Induction & Skin Effect Heating Systems for Pipelines & Vessels	Roy Barth	PAR 2011-2015	WG in Progress
P844.4	Standard for Impedance Heating of Pipelines, Vessels, Equipment, and Structures - Application Guide for Design, Installation, Testing, Commissioning and Maintenance	Roy Barth		
P844.5	Recommended Practice for the Design, Installation, Testing, Commissioning and Maintenance of Induction Heating Systems for Pipelines, Vessels, Equipment, Structures and Induction Susceptor Heating Furnaces	Roy Barth		
1580	RP for Marine Cable for use on Shipboard and Fixed or Floating Platforms	Rudy Bright	Published 2001 Published 2010	
P1580.1	RP for Insulated Bus Pipe for Use on Shipboard and Fixed or Floating Platforms	Deirdre Burley	PAR 2009 - 2013	WG in progress
1662	Guide for the design and application of Power Electronics in Electrical Power Systems on Ships	Yuri Khersonsky	Published 2008	No WG activity
P1709	RP for 1 to 35 KV Medium Voltage DC Power Systems on Ships	Yuri Khersonsky	Published 2010	No WG activity
1826	Standard for Power Electronics Open System Interfaces in Zonal Electrical Distribution Systems Rated Above 100 kW	Yuri Khersonsky	Published 2012	No WG activity
1886	Subsea Electrical Working Group	Roy Jazowski		P&P under review 07-01-2013
1886.1	Subsea Electrical Applications - Power Connectors & Penetrators from 1.2kV through 36kV Um	Mike Alford	PAR 2013-2016	WG in Progress
80005-1	IEC/ISO/IEEE 80005-1:2012 Utility connections in port - Part 1: High Voltage Shore Connection (HVSC) Systems - General requirements	Kevin Peterson	Published 2012	Award PCIC 2012
P80005-2	Cold Ironing Part 2: High Voltage Shore Connection (HVSC) Systems – Communication Interface Description	Kevin Peterson	PAR 2011 - 2015	WG in Progress Joint development with IEC/ISO

Projects on SA site - myProject™ >> Manage Activity Profile; Join "Interest Area", Check Boxes, complete "affiliation"

*** WGs with IEEE bank account must submit Form L-50S to Standards Chair by February 1 for previous fiscal year**

IEEE 844-Skin Effect, Impedance, and Induction Heating

Roy Barth – Chair
Franco Chakkalakal- Vice Chair
Derek Polk -Secretary

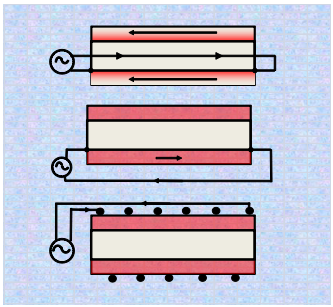
IEEE

CANADIAN STANDARDS ASSOCIATION

PCIC IEEE-IAS Petroleum and Chemical Industry Committee

Heating Technology/Applications Covered

- Skin Effect Heating
- Impedance Heating
- Induction Heating



History of IEEE 844

- IEEE844 Was First Introduced as a Recommended Practice in 1991
- IEEE844 Went through a Significant Revision in 2000 in That Qualification Testing of the System Components Was Added Along With Other Improvements
- Reconfirmed in 2006
- Initial PARS to Update/Rewrite the Standard Approved in June of 2011
- Update of PARS to Accommodate Scope Changes and Joint Development Aspects with CSA in June of 2013

Primary Goals Today For the Rewrite

- Rebuild Into More Globally Adoptable Standards Where Possible(Joint Development with CSA)
- Separate Skin Effect, Impedance , and Induction Applications Using the “DOT SERIES” Arrangement
- Cover Hazardous Area (Potentially Explosive Atmospheres) Applications
- Expand Coverage to Address Other New Applications

New Structure of 844

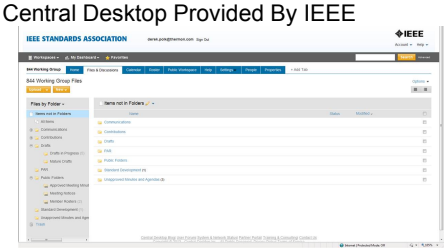
- 844.1 - IEEE Standard for the Skin Effect Trace Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements
- 844.2 - IEEE Standard for the Skin Effect Trace Heating of Pipelines, Vessels, Equipment, and Structures – Application Guide for Design, Installation, Testing, Commissioning and Maintenance

New Structure of 844

- 844.3 - IEEE Standard for the Impedance Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements
- 844.4 - IEEE Standard for the Impedance Heating of Pipelines, Vessels, Equipment, and Structures - Application Guide for Design, Installation, Testing, Commissioning and Maintenance
- 844.5 - IEEE Recommended Practice for the Design, Installation, Testing, Commissioning and Maintenance of Induction Heating Systems for Pipelines, Vessels, Equipment, Structures and Induction Susceptor Heating Furnaces

IEEE Central Desktop

- We Are One of the Groups Using the New Central Desktop Provided By IEEE



"DOT" Task Group Leadership

- STD 844.1- Roy Barth / Derek Polk
- STD 844.2-Franco Chakkalakal /Gustavo Saldarriaga
- STD 844.3/844.4- Neal Fenster
- RP 844.5- Bob Rafferty/Rob Turner

PAR Target

- Completion in 2015

Questions?

IEEE STANDARDS ASSOCIATION IEEE

IEEE P1814 WG & TG's Annual Report to PCIC Standards Subcommittee

Presented Sept. 2012 – 2013 By Bruce McClung – Chair P1814

"Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety"

PAR Status

Submitted: October 15, 2009
Approved: December 9, 2009
Expires: December 31, 2013

Request for a PAR extension to: December 31, 2015 submitted to NesCom for consideration during its October 2013 meeting(s).

Officers

Chair: L. Bruce McClung
Vice Chair: Gary L. Donner
Secretary: Dennis J. Hill

No changes in officers in 2012-2013.

Liaison: Lisa Perry to IAS/PCIC

Roster

Voting Members: 44
Sponsor: Dennis Bogh

Meetings - Recent

Face-to-Face: PCIC Sept 2012; ESW Mar 2013
PCIC Sept 2013 (two days ago)

Current Activities

- Recommended Practice is in its 7th draft
- Stabilize remaining 25-30% of document
- Plant meetings: ESW and PCIC in 2014 & 2015
- Task Groups meet via email, teleconference at various times in the year
- PAR Extension would enable:
  - WG ballot = 3rd quarter 2014
  - Final RP = 2nd quarter 2015 (to RevCom)

Noteworthy Items

(1)PAR Extension Request (2-years) being reviewed by NesCom October 2013.

(2)RP has 6 subject matter areas.

These 4 are stable:

- "Design for Operations & Maintenance"
- "Protection"
- "Equipment"
- "Signage/Labeling"

These need to be stabilized:

- "General System Design"
- "Grounding"

Noteworthy Items (cont)

(3)CHALLENGE: technical expertise needed across many different facets of the electrical engineering profession

- Safety
- Relaying and protection
- Equipment manufacturing
- System design
- High and low voltage
- Lighting
- Numerous others

The Working Group has obtained support in most areas and is shoring up others in order to complete the project.

END

Standards Subcommittee Report

IEEE P60079-30-1 & -2

Richard Hulett

2013 Petroleum and Chemical Industry Committee Technical Conference
Chicago, IL - September 24, 2013

What are these standards

- Heat tracing standards for hazardous area applications
- P60079-30-1: EXPLOSIVE ATMOSPHERES
  Electrical resistance trace heating –
  General and testing requirements
- P60079-30-2: EXPLOSIVE ATMOSPHERES
  Electrical resistance trace heating –
  Application guide for design, installation, and maintenance

Of Interest

Having one worldwide standard

How to develop standards with both North American and International recognition

P60079-30-1 and P60079-30-2 are joint development standards between IEEE and IEC

Special Challenges with IEC/IEEE Joint Development

- Getting Working Group (Maintenance Team) members together for meetings
- Dual system balloting
  - IEEE method
  - IEC method
- Maintaining consistent documentation

Background

IEEE

- IEEE 515 - 1983
- IEEE 515 - 1989
- IEEE 515 - 1997
- IEEE 515 - 2004
- IEEE 515 - 2011

EN & IEC

- European Norm (EN 500xx) Series
- IEC 62086 (2001)
- IEC 60079-30 (2007)

Steps towards harmonization

- Members from the IEC 60079-30 MT were invited to join the IEEE 515 WG for the 2011 revision
- The result was that the new 515 2011 version and IEC 60079-30 were more closely aligned
- A joint development between IEEE and IEC was initiated in 2012 which would result in a dual logo standard
- IEEE 515 2011 was used as the starting draft

Meetings of the 60079-30 MT

2010
Oct Seattle WA

2011
Jan Orlando FL
June Frankfurt GER
Aug San Fran CA
Nov Manchester UK

2012
Mar Arnhem NL
July Calgary CAN

2013
Mar London UK

Current Status

- Final drafts of P60079-30-1 and P60079-30-2 have be produced by the Maintenance Team
- Two Committee Drafts (CDs) have been sent to the IEC National Committees for input
- First round of IEEE Sponsor balloting has been completed
- A Ballot Resolution Committee (BRC) has been formed

What Next

- Complete the IEEE ballot resolution and respond to all comments
- Process a recirculation IEEE Sponsor Ballot with resolution changes
- Process a Committee Draft for Voting (CDV) in IEC
- Resolve any comments
- Process a Final Draft International Std (FDIS) and final IEEE recirculation Sponsor ballot

Meeting the Challenges

- Getting Working Group (Maintenance Team) members together for meetings – *alternate meetings between North America and Europe*
- Dual system balloting – *follow the standard procedures and be patient*
- Maintaining consistent documentation – *sometimes a Modified PAR is needed to align draft text with PAR*

The Finish Line

Two heat tracing standards for hazardous area applications that are recognized in North America and Internationally

IEC/IEEE 60079-30-1 & IEC/IEEE 60079-30-2

Projected completion - 2014

Standards Subcommittee Report IEEE P1458

Gary Donner

2013 Petroleum and Chemical Industry Committee Technical Conference
Chicago, IL - September 24, 2013

IEEE

IEEE • IAS
Petroleum and Chemical Industry Committee

IEEE 1683, Guide for Motor Control Centers Rated Up To and Including 600 Vac or 1000 Vdc with Requirements Intended to Reduce Electrical Hazards While Performing Defined Operations

Lessons Learned

M. Valdes Chair, Rachel Bulgaris Vice Chair, Craig Wellman Secretary

imagination at work

Do not let the perfect get in the way of the good enough

1683 started as a "standard" for manufacturers of MCCs

- Manufacturers were not ready
- Other "good" standards existed
- Too many commercial considerations
- Did not address the whole problem

Too much controversy, not enough progress

Guide for the user, installer, specifier…

- Less threatening to manufacturers
- More widely useful to various constituencies
- Less conflict with the existing standards from other organizations
- Easier to agree on
- Yes… may be less impactful in some ways, but its progress & if manufacturer's see it having an effect it will drive how they build product and what is available to the industry

Other lesson

Have a good secretary and a good technical editor

- Thank you to **Mr. Craig Wellman** for keeping this going and organized
- Thank you to **Miss Rachel Bulgaris** for keeping the editing organized, the document correct and doing all the hard detailed line by line work that needs to be done!

IEEE P1584 and P1584.1 WG Report to PCIC Standards SC

Presented by
Bruce McClung
Vice Chair
September 24,2013

P1584 WG Responsible for

- P1584
  Guide for Performing Arc-Flash Hazard Calculations.
- P1584.1
  Guide for the Specification of Scope and Deliverable Requirements for an Arc-flash Hazard Calculation Study in Accordance With IEEE 1584.

P 1584 Guide for Performing Arc-Flash Hazard Calculations

Scope:
This guide provides models and an analytical process to enable calculation of the predicted incident thermal energy and the arc-flash boundary. The process covers the collection of field data, if necessary, consideration of power system operating scenarios, and calculation parameters.
Applications include electrical equipment and conductors for three-phase alternating current (ac) voltages from 208 V to 15 kV.
Calculations for single-phase ac systems and direct current systems are not a part of this guide but some guidance and references are provided for those applications.
Recommendations for personal protective equipment to mitigate arc flash hazards are not included in this guide.

P1584.1 Guide for the Specification of Scope and Deliverable Requirements for an Arc-flash Hazard Calculation Study in Accordance With IEEE 1584

- **Scope:**
  This document provides guidance for the specification and performance of an arc-flash hazard calculation study, in accordance with the process defined in IEEE 1584, Guide for Performing an Arc-Flash Calculations Study (Arc-Flash Study).
- It outlines the minimum recommended requirements to enable the owner or its representative to specify an Arc-Flash Study, including scope of work and associated deliverables.

P1584/P1584.1

Successes

- P1584 WG have very energized membership. At the last count we now have 80 members. Last meeting in Dallas was attended by 42 of 66 members at that time and 69 guests.
- P1584.1 is almost complete and ready for submission to RevCom.

P1584/P1584.1WG

- P 1584 Issues
  Very heavily dependent on deliverables from IEEE/NFPA Collaborative Project performing the testing.
- The Collaboration is dependent on at least three High Power Test Laboratories, to fit testing in among the owner's need for the Test Lab time and thus difficult to predict completion of the testing.
- As a result of the delay of deliverables from the Collaboration , WG will submit another request for extension of PAR due to expire December 31, 2013.
- IEEE has filed an application for obtaining a patent on IEEE/NFPA project work causing some confusion and concern on possible implications. Dr. Konstantinos Karachalios, IEEE Standards Association Managing Director, addressed the P1584WG meeting on March 12,2013 by telephone providing reasons.
- A P1584WG Task Group was formed to document possible concerns from the members. Discussions with IEEE-SA Staff and the Collaboration are on going.

P1584.1

- Issues and lessons learned
- Submission to RevCom was disapproved by the IEEE- SA Standards Board (SASB) at its June meeting. The stated reason for disapproval was that the resolution of the comments received during the original ballot did not conform to IEEE-SA procedures.
- The document was recirculated for 30 day recirculation on August 28,2013. Comments are being addressed by the WG Ballot Resolution Group.
  Lesson learned: Provide a defensible reason if a comment is not straight accept.

API Subcommittee on Electrical Equipment - Fall 2013

Status of the API Standards and Recommended Practices:

API RP 500 and API RP 505 - Mark Goodman (Area Classification)	RP 500 3rd Edition was published in December 2012. RP 505 is currently in revision (noted that RP 505 was recently reaffirmed for "administrative purposes"). Figures in the document are being redlined for submission to API editorial for redraft into correct format. Anticipate ballot release after the Spring 2014 meeting.
API Std 540 – Don Dunn (Electrical Installations in Petroleum Processing Plants)	Fourth Edition, 1999; Reaffirmed in 2013. Fifth Edition under revision. Planning to send edited version out to the committee for review and ballot later this year.
API Std 541 – Barry Wood (Induction motors 500 hp and larger)	Fifth edition. Currently working with API staff to publish. Hoping to publish by end of 2013.
API RP 545 – George Morovich (lightning protection of hydrocarbon storage tanks)	First Edition issued October 2009; TG will not meet until Spring 2014.
API Std 546 – Barry Wood (synchronous motors)	Third Edition was published in September 2008. TF started review cycle for next edition in Fall 2013.
API Std 547 – Barry Wood (general purpose, sleeve-bearing induction motors 250 hp and larger)	First Edition was published in 2005; Second edition successful ballot 2013. Worked minor changes and will submit to API staff for editing.
API RP14F* – Dave Burns (electrical systems, offshore – Divisions)	Fifth Edition was published July 2008; Revision cycle planned to begin Q1 2014. Expect a number of updates related to updates in USCG and BSEE requirements.
API RP 14FZ* – Dave Burns (electrical systems, offshore – Zones)	First Edition was published September 2001. Second Edition published in May 2013.

*** Standards under the API Committee on Production**

Category D Liaison Report – IEC TC18

September 24, 2013

Kevin Peterson
P2S Engineering, Inc.

Background

- Liaison was established in July 2008
- The liaison between IEEE ShorePwr - Electrical Shore-to-Ship Connections WG and IEC TC 18 is, at this time, primarily focused in IEEE P80005-1 and P80005-2 working groups

Meeting History

- IEEE participated in ten joint meetings with IEC since the liaison was established

June 2008 Loen, Norway
October 2008, Monfalcone, Italy
June 2009, Santa Clarita, CA USA
November 2009, Kobe, Japan

Meeting History

February 2010, Rome, Italy
June 2010, Seattle, WA, USA
November 2010, Hamburg, Germany
December 2010, Baltimore, MD, USA
October 2011, Oslo, Norway
April 2013, Long Beach, CA, USA
October 2013, Kristiansund, Norway
February 2014, France

Accomplishments

- IEC/ISO/IEEE 80005-1 was published in July 2012. We believe the collaboration process was successful and the international maritime industry has benefited.
- Working on IEC/IEEE 80005-2
- New work starting on 80005-3 "Utility Connections in Port Part 3: Low Voltage Shore Connection (LVSC) Systems - General requirements"

Special Challenges

- Much more meeting time in development process
- Keeping IEEE WG members participating for a longer development process
- Coordinating multiple balloting systems (IEC/ISO/IEEE)