

**IEEE PCIC Standards Subcommittee Meeting  
MINUTES  
Tuesday, September 9, 2014 – San Francisco, CA**

**1.0 Call to Order**

The meeting was called to order at 12:50PM by the chair, Dennis Bogh, at the San Francisco Marriott Marquis.

**2.0 Circulation of Roster**

The chair introduced the officers. There were 5 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 by Daleep Mohla and second by Lorraine Padden, the agenda was unanimously approved.

**4.0 Approval of Minutes of Last Meeting**

Travis Griffith moved to accept the minutes of the September 18, 2013 meeting as written. Daleep Mohla seconded and motion was unanimously approved. The minutes are posted on the PCIC *mentor* site

**5.0 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.

**6.0 IEEE Standards Association**

Lisa Perry gave a presentation covering overview of IEEE-SA and recent changes. Presentation materials are attached to the minutes.

**7.0 Summary of Standards Subcommittee Reports**

Travis Griffith & Art Smith 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:

P45 and the dot series	Gary Savage
Std 1716	Daleep Mohla
Std 1584.1	Daleep Mohla
Std 1683 epilog	Marcelo Valdes

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 (verbal report)
Category D Liaison to TC31, 60079Ex “e”	Paul Hamer

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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:

Kenneth White	IEEE Std 463-2013 IEEE standard for electrical safety practices in electrolytic cell line working zones
Daleep C. Mohla	IEEE Std 1584.1 IEEE guide for the specification of scope and deliverable requirements for an Arc-Flash Hazard Calculation Study in accordance with IEEE Std 1584
Marcelo Valdes & Benjamin Leslie McClung	IEEE Std 1683-2014 IEEE guide for motor control centers rated up to and including 600 V ac or 1000 V dc with recommendations intended to help reduce electrical hazards
Edward J. Thornton	IEEE Std 1716-2014 Recommended practice for managing natural disaster impact on key electrical systems and installation in petroleum and chemical facilities

**11.0 New Business**

Extensions on PARs 1242 and 1673 needed to complete balloting. P1814 ill ballot in February 2015.

**12.0 Next Meeting**

The next PCIC Standards Subcommittee meeting is scheduled to be held in conjunction with the 2015 PCIC meeting October 6, 2015 in Houston, TX.

**13.0 Adjournment**

There being no other business to conduct, a motion was made, seconded, and passed for adjournment. The meeting was adjourned at 2:13 PM by Chair Bogh.

# Codes and Regulations Subcommittee Report

2014 Petroleum and Chemical Industry Committee Technical  
Conference  
San Francisco, CA, USA – September 8-11, 2014



## CEC Changes

**Tim Driscoll provided an overview of the changes to the 2015 Canadian Electrical Code:**

- **New definitions**
- **Changes in ampacity rules**
- **Complete revision of Section 18 - Hazardous Locations**
- **Complete re-write of Section 62 - Fixed Electrical Space and Surface Heating Systems**

PAPER TITLE

IEEE IAS PCIC 2014

## New NEC proposal system

**Ed Larson provided an overview of the NEC proposal system**

- **Proposal is now Public Input**
- **New dates for Public Input (proposal submission)**
- **CMP members will not be voting on individual proposals and instead will be developing a new draft text based on input**
- **ROP will now be First Draft Report**
- **ROC will now be Second Draft Report**

PAPER TITLE

- **Emphasis will be on electronic processing**

IEEE IAS PCIC 2014

## Public Input for 2017 NEC

C&R serves as a forum

- Present Public Input (code proposals)
- Discussion and input on how to improve proposal
- Obtain IEEE support if desired

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IEEE IAS PCIC 2014

## Public Input for 2017 NEC

**Eight Public Inputs were presented and five were recommended for IEEE support**

**Ben Johnson**

- **427.1 Scope - Update reference to current IEEE standard**
- **427.20 Marking - Clarify wording on factory assembled heating units**

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IEEE IAS PCIC 2014

## Public Input for 2017 NEC

**Rich Holub**

- **240.87 Arc Energy Reduction – (1) add instantaneous trip as method and (2) add Exception for maint. and supervision**

**Neal Fenster**

- **427.27 Impedance System Protection (structures) - changed from GFI to EPD**
- **427.32 Impedance System Protection (pipes) - changed from GFI to EPD**

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End of Presentation

**Any Questions?**

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# Overview of the IEEE Standards Association

Lisa Perry

**IAS/PCIC Standards Subcommittee meeting**  
San Francisco, CA USA  
8 September 2014

## IEEE Standards Association (IEEE-SA)

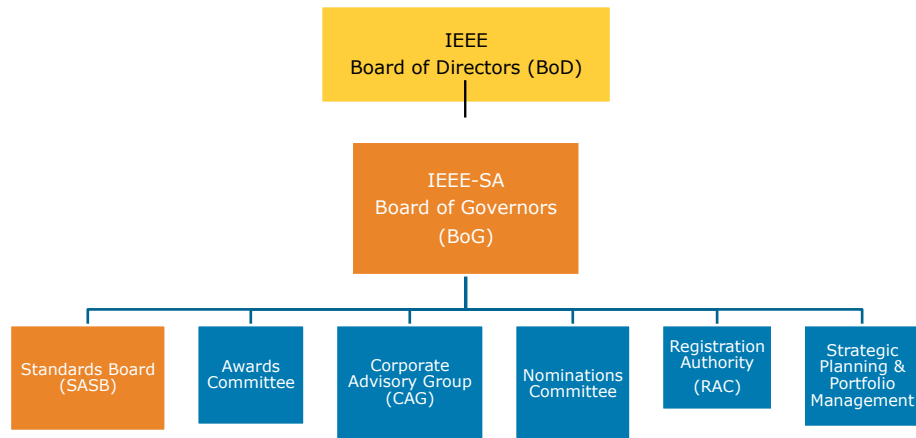
### Mission of IEEE-SA

To enable and promote the collaborative application of technical knowledge to advance economic and social well-being through the development of technical standards and related activities.

Standards development process is guided by five principles:

- Due process
- Openness
- Consensus
- Balance
- Right of appeal

## IEEE-SA Governance Structure



Full IEEE org chart: [http://www.ieee.org/documents/organization\\_summary.pdf](http://www.ieee.org/documents/organization_summary.pdf)

IEEE STANDARDS ASSOCIATION



## IEEE-SASB Governance Structure

- **IEEE-SA Standards Board (SASB)** oversees the standards development process.
- **SASB Committees:**
  - **New Standards Committee (NesCom)** recommends approval of project authorization requests (PARs) to the SASB.
  - **Review Committee (RevCom)** recommends approval of standards to the SASB.
  - **Audit Committee (AudCom)** oversees the standards development activities. Reviews Sponsor and Working Group Policies and Procedures.
  - **Procedures Committee (ProCom)**
  - **Patents Committee (PatCom)**

### SASB Primary Governing Documents:

- SASB Bylaws: <http://standards.ieee.org/develop/policies/bylaws/index.html>
- SASB Operations Manual: <http://standards.ieee.org/develop/policies/opman/>

IEEE STANDARDS ASSOCIATION





## Standards Development Groups

IAS/PCIC

Standards  
Subcommittee

Working  
Groups

- PARs
- Standards, amendments, corrigenda

IEEE STANDARDS ASSOCIATION



## Additions to eTools

- Dictionary access through myProject

### PLEASE SIGN IN

Now you can access myProject, Attendance Tool, and Mentor with a single sign in. Simply enter your IEEE Account username/email and password below to begin!

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SIGN IN TO:

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- Attendance Tool
- mentor
- myProject
- Standards Dictionary

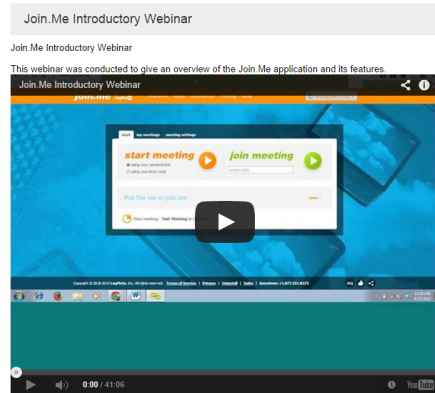
IEEE STANDARDS ASSOCIATION



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## Additions to eTools

- Join.me web conferencing services available for WGs
  - Request <http://ieee-sa.centraldesktop.com/joinme/>



## Changes

- Scope and purpose of the draft no longer have to match the PAR
- One-third rule for ballot groups
  - Additional ballot classifications added to myProject
    - Public link to classifications, available in Mentor at <https://mentor.ieee.org/pcic/dcn/14/pcic-14-0002-01-TKIT-default-voter-classifications-for-sponsor-ballot.pdf>
- No interpretations
- Maintenance
  - Standards are no longer reaffirmed
  - 10-year maintenance cycle

## Maintenance

- Effective January 2012,
  - The reaffirmation process was eliminated
  - Maintenance timeline changed from 5 years to 10 years
- Standards are either active or inactive
- An IEEE standard may remain continuously active only if a **revision process** is completed and approved within 10 years from the date that the standard was approved or last revised.
  - It is not necessary that the document be changed, just that the opportunity existed to make appropriate changes and the requisite ballot group confirmed decisions to change or not change the document.
  - If no changes are made
    - the standard retains its designation (i.e., the year will not change).
    - the title page reflects that a maintenance action occurred but no changes were made.

## Maintenance

- Standards can become inactive through a Sponsor ballot to withdraw, or will be made inactive if they do not complete a revision process within 10 years.
  - **inactive-superseded:** These standards have been replaced with a revised version of the standard, or by a compilation of the original active standard and all its existing amendments, corrigenda, and errata.
  - **inactive-reserved:** These standards are removed from active status through an administrative process for standards that have not undergone a revision process within 10 years.
  - **inactive-withdrawn:** These standards have been removed from active status through a ballot where the standard is made inactive as a consensus decision of a balloting group.



# Questions?

## Contact Information Page




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Work Group Name	PCIC Standards Subcommittee
Chair	Dennis Bogh
Vice Chair(s)	Travis Griffith, Art Smith
Secretary	Kevin Peterson
Participants	See SS Officers Roster 25 August 2014
WG Policies & Procedures	Approved by IEEE 17 March 2014
Progress toward deliverables	P&P posted & reference to be referenced in WGs Next PCIC: San Francisco
Timeline	Standards Subcommittee meeting: Tuesday September 9 <sup>th</sup> 12:45 ~ 2:15 PM -- YB Knob Hill
Future Meetings	Officer & WG officer conference calls as required WG face-face at 2015 PCIC - Houston
Issues	PAR expiration: 5 – 2014; 6 - 2015 5 WGs inactive, awaiting re-start


	
Work Group Name	PCIC Standards Subcommittee <b>Cable, Switchgear and Motor Section</b>
Chair	Dennis Bogh
Vice Chair(s)	Travis Griffith, <b>Art Smith</b>
Secretary	Kevin Peterson
Participants	See SS Officers Roster 25 August 2014
WG Policies & Procedures	Approved by IEEE 17 March 2014
Progress toward deliverables	P&P posted & reference to be referenced in WGs Next PCIC: San Francisco
Timeline	Standards Subcommittee meeting: Tuesday September 9 <sup>th</sup> 12:45 ~ 2:15 PM -- YB Knob Hill
Future Meetings	Officer & WG officer conference calls as required WG face-face at 2015 PCIC - Houston
Issues	PAR expiration: 5 – 2014 (only one of 5 not published by end of year and likely to require an extension); 3 - 2015

  	
Work Group N <sup>o</sup>	303
Work Group Name	RP for Auxiliary Devices for Rotating Electrical Machines in Class 1, Div. 2 and Zone 2 Locations
Chair	Art Neubauer
Vice Chair(s)	John Rama
Secretary	
Participants:	See WG Roster
WG Policies & Procedures	New PAR Planned
Progress toward deliverables	Revised Proposed PAR Scope and Purpose to include Class 2 Hazardous Areas; Submitted PAR for Revision 3 <sup>rd</sup> quarter 2014
Timeline	WG Ballot 4 <sup>th</sup> Quarter 2016
Future Meetings	WG conference calls and meetings as required WG face-face at PCIC Houston
Issues	Still looking for Secretary

  	
Work Group N <sup>o</sup>	463-2013
Work Group Name	Standard for Electrical Safety Practices in Electrolytic Cell line Working Zones
Chair	Ken White
Vice Chair(s)	Daryld Ray Crow
Secretary	Paul Buddingh
Progress toward deliverables	<b>P463-2013 – Published October 4<sup>th</sup>, 2013</b> <b>Detailed Presentation to Follow</b>
Timeline	
Future Meetings	
Issues	

  	
Work Group N <sup>o</sup>	576
Work Group Name	RP for Installation, Termination, & Testing of Insulated Power Cable as Used in Industrial and Commercial Applications
Chair	Bill Taylor
Vice Chair(s)	
Secretary	
Participants:	
WG Policies & Procedures	
Progress toward deliverables	<b>IEEE-576 standard was withdrawn when IEEE-1242 was released. All of the information in 576 that wasn't already covered in guide 1185 was transferred to the current revision of IEEE-1242.</b>
Timeline	
Future Meetings	No future IEEE-576 Meetings Planned
Issues	

  	
Work Group N <sup>o</sup>	841
Work Group Name	Standard for Petroleum and Chemical Industry Severe Duty TEFC Squirrel Cage Induction Motors - Up to and Including 370 kW (500 HP)
Chair	Donald Dunn
Vice Chair(s)	
Secretary	Dennis Bogh
Participants:	
WG Policies & Procedures	PAR Submitted is slated for IEEE-SA Approval in October
Progress toward deliverables	Awaiting PAR approval
Timeline	Awaiting PAR approval
Future Meetings	Will discuss at the meeting
Issues	Seeking a Vice Chair






Work Group N <sup>o</sup>	1017-2013
Work Group Name	RP for Field Testing Electric Submersible Pump Cable
Chair	Robert Durham
Vice Chair(s)	Bob Schuermann
Secretary	Cameron Chung
Progress toward deliverables	<b>Standard Published 2013</b> No activities planned at this time since they are only 1 year into their ten year revision cycle.
Timeline	
Future Meetings	
Issues	






Work Group N <sup>o</sup>	1018-2013
Work Group Name	RP for Specifying Electric Submersible Pump Cable - Ethylene Propylene Rubber Insulation
Chair	Robert Durham
Vice Chair(s)	Bob Schuermann
Secretary	Cameron Chung
Progress toward deliverables	<b>Standard Published 2013</b> No activities planned at this time since they are only 1 year into their ten year revision cycle.
Timeline	
Future Meetings	
Issues	




  	
Work Group N <sup>o</sup>	1019-2013
Work Group Name	RP for Specifying Electric Submersible Pump Cable - Polypropylene Insulation
Chair	Robert Durham
Vice Chair(s)	Bob Schuermann
Secretary	Cameron Chung
Progress toward deliverables	<b>Standard Published 2013</b> No activities planned at this time since they are only 1 year into their ten year revision cycle.
Timeline	
Future Meetings	
Issues	


  	
Work Group N <sup>o</sup>	P1068
Work Group Name	Standard for Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical and Process Industries
Chair	Chuck Yung
Vice Chair(s)	Bill Lockley
Secretary	Jacques Leger
Participants:	See PCIC 1068 WG Roster 9-22-14
WG Policies & Procedures	In balloting stages
Progress toward deliverables	Document is complete; MEC completed.
Timeline	Out for ballot now
Future Meetings	2015 PCIC, phone conferences as needed.
Issues	None

  	
Work Group N <sup>o</sup> Work Group Name	P 1242 IEEE Guide for Specifying and Selecting Power, Control, and Special-Purpose Cable for Petroleum and Chemical Plants
Chair	Art Maldonado
Vice Chair	Joseph Deegan
Secretary	Bill Taylor
Participants:	See WG Roster      22 Sept 2013
WG Policies & Procedures	Pending      17 March 2014
Progress toward deliverables Timeline	Final Completion of Guide/Go to Balloting in June Ballot resolution summer 2014
Future Meetings	WG conference calls as required WG face-face at PCIC San Francisco
Issues	<b>PAR expires December 31<sup>st</sup>, 2014</b>


  	
Work Group N <sup>o</sup> Work Group Name	IEEE 1349 Guide for the Application of Electric Motors in Class I, Div. 2 or Class I, Zone 2 Hazardous (Classified)
Locations	
Chair	Lorraine Padden
Vice Chair(s)	Paul Anderson
Secretary	Rick Bried
Participants:	See WG Roster
WG Policies & Procedures	Approved      March 17 <sup>th</sup> , 2014
Progress toward deliverables	No active PAR, IEEE 1349-2011
Timeline	Collect data for a few years, then start PAR
Future Meetings	WG meeting at PCIC San Francisco Saturday, September 6, 2014; 4:00 – 5:00 pm
Issues	None



Work Group N <sup>o</sup>	P1458
Work Group Name	Recommended Practice for the Selection, Field Testing, and Life Expectancy of Molded Case Circuit Breakers for Industrial Applications
Chair	Gary Donner
Vice Chair(s)	Jeremy Smith
Secretary	Kristen Wicks
Participants:	See WG Roster
WG Policies & Procedures	PAR Approved thru December 31st, 2017
Progress toward deliverables:	The committee has started on a complete revision of the document. To date we are more than half done with the revision. We are waiting for NEMA AB4 ( <a href="#">Guidelines for Inspection and Preventive Maintenance of Molded Case Circuit Breakers Used in Commercial and Industrial Applications</a> ) to catch up with us so that both documents make the same recommendations.
Timeline:	It is anticipated that we will be ready for balloting in around 2½ years if we continue to make progress at our current pace.
Future Meetings	WG face-face at PCIC San Francisco
Issues	None




Work Group N <sup>o</sup>	P1566
Work Group Name	<b>IEEE Standard for Performance of Adjustable Speed AC Drives Rated 375 kW and Larger</b>
Chair	Rick Paes
Vice Chair(s)	Bob Hanna
Secretary	Roger Lawrence
Status:	<ul style="list-style-type: none"> <li>• Ballot completed December 16, 2013 – Approved</li> <li>• Re-opened at the request of several members who did not vote</li> <li>• Extension of vote to end of January to permit additional input</li> <li>• 117 comments were provided</li> <li>• Comments have been reviewed and adjustments made to standard</li> <li>• Revised standard submitted to IEEE</li> <li>• <b>PAR expires December 31<sup>st</sup>, 2014</b></li> </ul>



Work Group N°	P1584
Work Group Name	<b>IEEE Guide for Performing Arc-Flash Hazard Calculations</b>
Chair	Daleep Mohla
Vice Chair	Bruce McClung
Secretary	Jim Phillips

**Activities**

- P 1584 met on February 3, 2014 in San Diego in conjunction with the IEEE Electrical Safety Workshop .
- There were 53 members and 69 guests present at the meeting.
- The IEEE/NFPA Collaborative project released the test data information on August 5, 2014. This test data is only accessible to the voting members of the WG .
- A task group has been established and is performing analysis and evaluation of this data and to determine what additional information may be needed. The TG will provide recommendations to the WG on implementation strategy .
- There was no financial activity in this WG.
- The next meeting of P 1584WG is tentatively scheduled on January 26 , 2015 before the start of Electrical Safety Workshop in Louisville, KY .



Work Group N°	P1584.1-2014
Work Group Name	<b>Guide for the Specification of Scope and Deliverable Requirements for an Arc-flash Hazard Calculation Study in Accordance With IEEE 1584</b>
Chair	Daleep Mohla
Vice Chair	Bruce McClung
Secretary	Jim Phillips


Progress toward deliverables **Published February 10<sup>th</sup>, 2014**  
**Detailed Presentation to Follow**

  	
Working Group N <sup>o</sup> :	IEEE 1673
Working Group Name	Requirements for Conduit & Cable Seals for Field Connected Wiring To Equipment in Petroleum And Chemical Industry exposed to pressures above 1.5 kilopascals (0.22 psi)
Chair	Marty Cole
Participants:	See WG Roster
WG Policies & Procedures	Approved 25 June 2012
Progress toward deliverables	Balloted Resolving Negatives Likely require an extension
Timeline	Resubmit ballot after meeting
Future Meetings	WG meeting at PCIC San Francisco Saturday, September 6, 2014; 8:00 – 9:00 am
Issues	<b>PAR expires December 31<sup>st</sup>, 2014</b>

  	
Work Group N <sup>o</sup> :	1683-2014
Work Group Name	Guide for Specifying Motor Control Centers Rated Up To 600 V AC or 1000 V DC With Features Intended to Reduce Electrical Hazards While Performing Defined Operations
Chair	Marcelo Valdes
Vice Chair(s)	David Pace
Secretary	Craig Wellman
Progress toward deliverables	<b>Standard Published 2014</b> <b>Detailed Presentation to Follow</b>
Timeline	
Future Meetings	
Issues	




Work Group N°	1714
Work Group Name	RP for Industrial Uninterruptible (UPS) Systems
Chair	Donald Dunn
Vice Chair(s)	
Secretary	
Participants:	See WG Roster
WG Policies & Procedures	PAR Extension 2012 Administrative withdrawal 2012
Progress toward deliverables	None
Timeline	None
Future Meetings	None
Issues	Inactive – unsuccessful in gaining support from manufacturers in the past



Work Group N°	1716-2014
Work Group Name	RP for Managing Natural Disaster Impact on key electrical systems and installation in Petroleum and Chemical Facilities
Chair	Ed Thornton
Vice Chair(s)	Larry Stahl
Secretary	Daleep Mohla
Progress toward deliverables	<b>Standard Published 2014</b> <b>Detailed Presentation to Follow</b>
Timeline	
Future Meetings	
Issues	Ed would like to pass baton as chair

	
Work Group N <sup>o</sup> .	P1810
Work Group Name	Guide for the Installation of Fire-Rated Cables Suitable for Hydrocarbon Pool Fires for Critical and Emergency Shutdown Systems in Petroleum and Chemical Industries
Chair	Gil Shoshani
Vice Chair(s)	Randy Humphrey (PCIC), Mick Bayer (ICC)
Secretary	
Participants:	See PCIC 2013 WG Roster 9-22-14
WG Policies & Procedures	Working on Draft 5
Progress toward deliverables	All sections are finished, we are making the guide an international guide that can be used anywhere.
Timeline	Plan to ballot December 2014
Future Meetings	2014 PCIC, Fall ICC, CC as needed.
Issues	Par expires December 2015

	
Work Group N <sup>o</sup> .	P1814
Work Group Name	Recommended Practice for Electrical System Design Techniques to Improve Electrical Safety
Chair	L. B. McClung
Vice Chair(s)	Gary Donner
Secretary	Dennis Hill
Participants:	45 Voting Members, 7 Task Groups
WG Policies & Procedures	Extension thru December, 2015
Progress toward deliverables	Four areas through all Technical Editing. Major progress in "Protection", "Grounding" Stabilized, "Equipment" nearly Stabilized
Timeline	Balloting and Resolution March 2015 to Sept 2015 Plan to Issue December 2015
Future Meetings	2014 PCIC, 2015 ESW, 2015 PCIC, Teleconference
Issues	Par expires December 31 <sup>st</sup> , 2015


  	
Work Group Name	PCIC Standards Subcommittee <b>Heat Transfer &amp; Ships Section</b>
Chair	Dennis Bogh
Vice Chair(s)	<b>Travis Griffith</b> , Art Smith
Secretary	Kevin Peterson
Participants	See SS Officers Roster      25 August 2014
WG Policies & Procedures	Approved by IEEE      17 March 2014
Progress toward deliverables	P&P posted & reference to be referenced in WGs Next PCIC: San Francisco
Timeline	SS meeting: Tuesday, 9 September 12:45 ~ 2:15 PM -- YB Knob Hill
Future Meetings	Officer & WG officer conference calls as required WG face-face at 2015 PCIC - Houston
Issues	PAR expiration: 5 – 2014; 6 - 2015 5 WGs inactive, awaiting re-start

  	
Work Group N <sup>o</sup>	<b>P45</b>
Work Group Name	Working Group for Electrical Installations on Shipboard
Chair	Dwight Alexander
Vice Chair	-
Secretary	David Cartes
Participants	-
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	-
Timeline	-
Future Meetings	Face-face at PCIC San Francisco
Issues	-






Work Group N°:	P45.1
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Design
Chair	Dwight Alexander
Vice Chair	Bob Kuebke
Secretary	Vicki Warren
Participants	See WG Roster
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	WG Draft in progress
Timeline	Final Draft Spring 2015
Future Meetings	Monthly WG meetings via WEB
Issues	No issues




Work Group N°:	<b>P45.2</b>
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Controls Automation
Chair	David Cartes
Vice Chair	-
Secretary	-
Participants	WG inactive
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	WG inactive
Timeline	<b>Reorganize 2018</b>
Future Meetings	WG inactive
Issues	WG inactive



Work Group N°:	P45.3	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Systems Engineering	
Chair	Paul Bishop	
Vice Chair	John Amy	
Secretary	-	
Participants	-	
WG Policies & Procedures	S&S master P&P	17 March 2014
Progress toward deliverables	WG Draft in progress	
Timeline	Expect to ballot fall 2014	
Future Meetings	-	
Issues	PAR Expires 31 Dec 2014	




Work Group N°:	P45.4	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Marine Sectors and Mission Systems	
Chair	Paul Bishop	
Vice Chair	John Amy	
Secretary	-	
Participants	-	
WG Policies & Procedures	S&S master P&P	17 March 2014
Progress toward deliverables	WG Draft in progress	
Timeline	Expect to ballot late 2014, early 2015	
Future Meetings	-	
Issues	PAR Expires 31 Dec 2014	



Work Group N°:	<b>P45.5</b>
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Safety Considerations
Chair	Dennis Neitzel
Vice Chair	Rod Van Wart
Secretary	Tim Gauthier
Participants	See WG Roster      28 May 2014
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	Approved at RevCom meeting and now with Editor
Timeline	IEEE Std 45.5-2014 - approved by the Standards Board - RevCom meeting on August 21, 2014
Future Meetings	WG has concluded work on 45.5 IEEE 45 series WG - PCIC San Francisco
Issues	No issues



Work Group N°:	P45.6
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Electrical Testing
Chair	Don Chambers
Vice Chair	Richard Pitt
Secretary	Bruce Majer
Participants	See WG Roster
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	WG Draft in progress
Timeline	-
Future Meetings	September 11 and 12
Issues	<b>PAR Expires 31 Dec 2014</b>



Work Group N°:	<b>P45.7</b>
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Switchboards
Chair	Steve Liggio
Vice Chair	John Winbery
Secretary	-
Participants	See WG roster 12 May 2014
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	Standard published 29 March 2012
Timeline	Reconvene in 2019
Future Meetings	Interim contacts at PCICs
Issues	Will need new chair & secretary



Work Group N°:	<b>P45.8</b>
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Cable Systems
Chair	Gary Savage
Vice Chair	T.S. Bhat
Secretary	Art Maldonado
Participants	-
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	-
Timeline	-
Future Meetings	-
Issues	-

  	
Work Group N <sup>o</sup> Work Group Name	<b>P515</b> Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Industrial Applications
Chair	Rich Hulett
Vice Chair	Dusty Brown
Secretary	-
Participants	See WG roster (inactive)
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	IEEE 515 was published in September 2011
Timeline	<b>Revision or withdrawal required by 2021</b>
Future Meetings	No meetings planned
Issues	When IEC/IEEE 60079-30 is published, hazardous area sections will supersede those in 515

  	
Work Group N <sup>o</sup> Work Group Name	<b>P515.1</b> Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Commercial Applications
Chair	Wayne Williams
Vice Chair	Pam Gold
Secretary	John Turner
Participants	See WG Roster
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	Published in 2012 – WG is inactive
Timeline	<b>Decision</b> on revision of scope to include industrial non-hazardous locations needed <b>in 2015</b>
Future Meetings	Informal trace heating standards update session scheduled for SFO PCIC Sunday morning
Issues	None



Work Group N°:	P60079-30-1 & P60079-30-2	
Work Group Name	Trace Heating in Explosive Atmospheres	
Convener	Ben Johnson	
IEEE-Chair	Richard Hulett	
Secretary	Paul House	
Participants	See WG Roster	
WG Policies & Procedures	PCIC WG P&Ps	Rev 2 June 2012
Progress toward deliverables	IEEE & CDV balloting is complete and approved	
Timeline	FDIS and IEEE recirculation ballot in early 2015 Publication expected in 2015	
Future Meetings	Oct 2014 in Northbrook IL to resolve comments	
Issues	<b>PARS for P60079-30-1 &amp; -2 expire in 2014</b> Will need to apply for PAR extensions at the December SASB meeting.	




Work Group N°:	P844.1	
Work Group Name	PCIC Subcommittee -Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels	
Chair	Roy Barth	
Vice Chair	Franco Chakkalakal	
Secretary	Derek Polk	
Participants	See WG Roster	
WG Policies & Procedures	Pending 17 March 2014	
Progress toward deliverables	Draft document , refining content and illustrations	
Timeline	Targeted for completion in 2016	
Future Meetings	Two F-F meetings Jan. and July 2014 Next F-F meeting in October	
Issues	PAR expires in 2015, submit extension	




Work Group N°:	P844.2
Work Group Name	PCIC Subcommittee -Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels
Chair	Roy Barth
Vice Chair	Franco Chakkalakal
Secretary	Derek Polk
Participants	See WG Roster
WG Policies & Procedures	Pending 17 March 2014
Progress toward deliverables	Draft document, refining content and illustrations
Timeline	Targeted for completion in 2016
Future Meetings	Two F-F meetings January and July Next F-F meeting in October
Issues	PAR expires in 2015, submit extension



Work Group N°:	P844.3
Work Group Name	PCIC Subcommittee -Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels
Chair	Roy Barth
Vice Chair	Franco Chakkalakal
Secretary	Derek Polk
Participants	See WG Roster
WG Policies & Procedures	Pending 17 March 2014
Progress toward deliverables	Document still in draft stage
Timeline:	Targeted for completion in 2016
Future Meetings:	Two F-F meetings in January and July Next F-F meeting in October
Issues:	PAR expires in 2015, submit extension



Work Group N°:	P844.4
Work Group Name	PCIC Subcommittee -Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels
Chair	Roy Barth
Vice Chair	Franco Chakkalakal
Secretary	Derek Polk
Participants	See WG Roster
WG Policies & Procedures	Pending 17 March 2014
Progress toward deliverables	Document still in draft stage
Timeline	Targeted for completion in 2016
Future Meetings	Two F-F meetings in January and July Next F-F meeting in October
Issues	PAR expires in 2015, submit extension



Work Group N°:	P844.5
Work Group Name	PCIC Subcommittee -Electrical Impedance, Induction, and Skin Effect Heating of Pipelines and Vessels
Chair	Roy Barth
Vice Chair	Franco Chakkalakal
Secretary	Derek Polk
Participants	See WG Roster
WG Policies & Procedures	Pending 17 March 2014
Progress toward deliverables	Document still in draft stage
Timeline	Targeted for completion in 2016
Future Meetings	Two F-F meetings in January and July Next F-F meeting in October
Issues	PAR expires in 2015, submit extension







Work Group N°:	<b>P1580</b>
Work Group Name	Recommended Practice for Marine Cable for Use on Shipboard and Fixed or Floating Platforms
Chair	Rudy Bright
Vice Chair	T.S. Bhat
Secretary	-
Participants	See WG Roster      2 September 2014
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	Standard published in 2010
Timeline	PAR for next revision to be submitted this year
Future Meetings	To be determined
Issues	None



Work Group N°:	P1580.1
Work Group Name	Recommended Practice for Insulated Bus Pipe for Use on Shipboard and Fixed or Floating Platforms
Chair	Deirdre Burley
Vice Chair	Paul Bishop
Secretary	Charles Smith
Participants	See WG roster      7 April 2014
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	Vendor has provided technical data
Timeline	Ballot resolution spring/summer 2016
Future Meetings	WG face-face at PCIC San Francisco
Issues	PAR has been extended (2015)

  	
Work Group N°:	P1662
Work Group Name	Recommended Practice for Design and Application of Power Electronics in Electrical Power Systems
Chair	Yuri Khersonsky
Vice Chair	Terry Ericson
Secretary	Giorgio Sulligoi
Participants	See WG roster      September 2014
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	PAR for revision approved by IEEE SA
Timeline	2017
Future Meetings	San Francisco PCIC and on-line
Issues	No issues

  	
Work Group N°:	<b>P1709</b>
Work Group Name	Recommended Practice for 1 to 35 kV Medium Voltage DC Power Systems on Ships
Chair	Yuri Khersonsky
Vice Chair	Norbert Doerry
Secretary	Terry Ericson
Participants	WG inactive
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	WG inactive
Timeline	<b>Reorganize 2017</b>
Future Meetings	WG inactive
Issues	WG inactive




Work Group N°:	<b>P1826</b>
Work Group Name	Standard For Power Electronics Open System Interface in Zonal Electrical Distribution Systems Rated Above 100 kW
Chair	Yuri Khersonsky
Vice Chair	Norbert Doerry
Secretary	Joe Piff
Participants	WG inactive
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	WG inactive
Timeline	<b>Reorganize 2019</b>
Future Meetings	WG inactive
Issues	WG inactive



Work Group N°:	<b>P1886.1</b>
Work Group Name	Subsea Electrical Applications – Power Connectors & Penetrators from 1.2 kV through 36 kV Um
Chair	Mike Alford
Vice Chair	Stephen Lanier
Secretary	Stevenson Dansby
Participants	-
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	-
Timeline	-
Future Meetings	-
Issues	-

  	
Work Group N°:	80005-1
Work Group Name	IEC/ISO/IEC Utility connections in port – Part 1: High Voltage Shore Connection (HVSC) Systems - General Requirements
Chair	Keven Peterson
Vice Chair	Dev Paul
Secretary	Scott Baird
Participants	See WG roster      18 September 2013
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	Currently revising existing standard
Timeline	Completion date December 2015
Future Meetings	WG conference calls as required WG face-face at PCIC San Francisco Joint IEC meeting in Tokyo 21~23 October 2014
Issues	IEC 18/1349A/INF issued 16 May for comments

  	
Work Group N°:	80005-2
Work Group Name	IEC/ISO/IEC Cold Ironing Part 2: High Voltage Shore Connection (HVSC) Systems - Communication Interface Description
Chair	Keven Peterson
Vice Chair	Dev Paul
Secretary	Scott Baird
Participants	See WG roster      17 October 2013
WG Policies & Procedures	S&S master P&P      17 March 2014
Progress toward deliverables	Expect CDV in October 2014
Timeline	CDV Oct. 2014, FDIS Dec. 2015, IS Dec. 2016
Future Meetings	WG conference calls as required WG face-face at PCIC San Francisco
Issues	All comments on document 18/1336/CD have been addressed

  	
Work Group N°:	80005-3
Work Group Name	IEC/ISO/IEC Utility Connections in Port – Part 3: Low Voltage Shore Connection (SVSC) Systems
Chair	Keven Peterson
Vice Chair	Dev Paul
Secretary	Scott Baird
Participants	P80005-1 WG roster 18 September 2013
WG Policies & Procedures	S&S master P&P 17 March 2014
Progress toward deliverables	IEEE comments submitted 30 May 2014 on document 18/1369/NP
Timeline	Completion on IS December 2016
Future Meetings	WG conference calls as required IEC/IEEE meeting in Italy, February 2015
Issues	PAS issued 25 April 2014 Expect initial CD in late 2014



# IEEE P45 Working Group

Recommended Practice for Electrical Installations on  
Shipboard

## Lessons Learned



# IEEE 45 Working Group

## Background



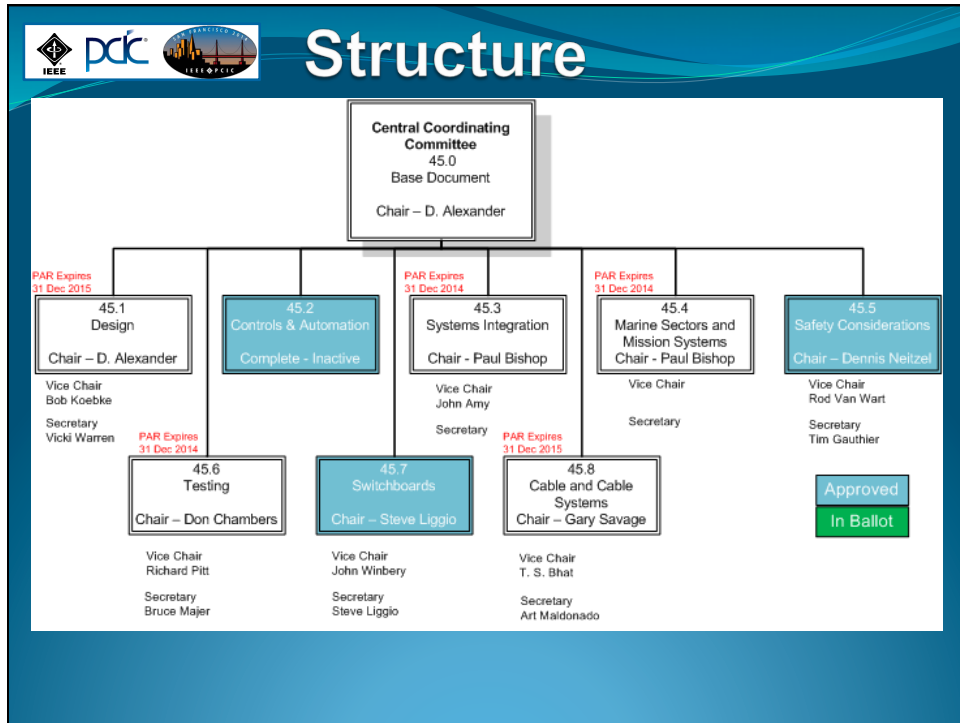
## P45- Background

- Standard dates back to 1913
- First modern revision in 1983
- Current version- IEEE 45-2002
- As it grew the document became large and unwieldy
- 1998- Decision made to spin off prescriptive wire and cable content resulting in the creation of IEEE 1580-2001
- 2008-Decision made to break document into a series of independent “Dot” standards
- Individual WGs were formed and PARs established
- The intent was to create a substantive rewrite incorporating latest technology



## P45- Background

- 45.0 Base document
- 45.1 Design
- 45.2 Control Systems
- 45.3 Systems Integration
- 45.4 Marine Sectors and Mission Systems
- 45.5 Safety Considerations
- 45.6 Testing
- 45.7 Switchboards
- 45.8 Cable and Cable Systems



**IEEE 45 Working Group**

**Challenges**





## P45- Challenges

- Sufficient qualified volunteers were lacking for some topics and had to be solicited
- Lack of desired diversity in many WGs
- Communications between inter-related Dots was and still is a challenge
- Until all Dots get published users are left with a dilemma as to what applies-the 2002 revision or the new Dot RP, as a mixed bag exists now
- Until all Dots get published other Dot WGs have limited ability to reference other Dots



## IEEE 45 Working Group

### Lessons Learned



## Learned

- Persistence, persistence, persistence in keeping on top of WG members and pushing the work forward
- Have a full comprehension of the IEEE process to avoid unnecessary delays, surprises, and wasted time
- Have a full grasp of the tools available from IEEE in order to optimize efficiency, organization, and streamline the process
- Keep meticulous meeting minutes to avoid misunderstandings and lost work
- Make it easy for the IEEE editors/ reviewers



## IEEE 45 Working Group

### Additional Suggestions



## P45- Additional Tips

- Utilize frequent, short Webex meeting to keep things moving and WG members engaged
- Utilize IEEE Central Desktop as an organizational tool to enhance communication between WG members
- Move meeting locations around to accommodate member demographics and make things more interesting and fun for attendees
- Consider consulting or “subscribing” members to add diversity and reduce the number of comments and negative votes during balloting



## Tips

And Remember

# TIME FLIES!!!





IEEE P1716 Working Group:

**Recommended Practice for Managing  
Natural Disaster Impact on key electrical  
systems and installations in Petroleum and  
Chemical Facilities**

IEEE P1716 Working Group  
IEEE Standards Subcommittee Meeting Update  
September 9, 2014

Chair: Ed Thornton  
Vice Chair: Larry Stahl  
Secretary: Daleep Mohla

Current Status



**P1716 Status:**

- Recommended practice approved by IEEE SASB on 12 June 2014
- Recommended practice published on 12 August 2014
- Initial PAR approved December 2006
- Shared learnings:
  - Have patience. The full process from start to finish can take years
  - Initial WG content and/or first draft development does not have to be perfect. Essential to get the draft document out for potential Ballot Group review. Folks need something to look at.
  - Input from Ballot Group will provide excellent feedback for content improvement.
  - Your IEEE Standards Staff Liaison is invaluable in guiding you through the process. Use them.

Lessons Learned  
During approval of  
IEEE 1584.1

Guide for the Specification of Scope and  
Deliverable Requirements for an Arc-  
Flash Hazard Calculation Study in  
Accordance with  
IEEE Std 1584™

Daleep Mohla

IEEE 1584.1  
History

- Document went through  
Sponsor ballot 91 % approval  
( 102 balloters – 80% return rate)  
Three Recirculations with an approval of  
95%  
Submitted to Rev Com in April 2013

# IEEE 1584.1- Ballot History

[Staff Ballot Control Panel](#) >> [View All IEEE Ballot & Invitation History](#) >> **Ballot History**

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

Initial or Recirculation	Ballot Open Date	Ballot Close Date	Draft #	# of Balloters	Response Rate %	Approval Rate %	Negative Rate %	Abstain Rate %	Chair	Name
Initial Ballot	14-Mar-2011	14-Apr-2011 23:59 ET	1	102	80.0%	91.0%	9.0%	1.0%	Daleep Mohla	
Recirculation #1	21-Nov-2011	11-Dec-2011 23:59 ET	2	102	84.0%	95.0%	5.0%	1.0%		
Recirculation #2	04-Oct-2012	24-Oct-2012 23:59 ET	D3	102	87.0%	94.0%	6.0%	1.0%		
Recirculation #3	07-Jan-2013	10-Feb-2013 23:59 ET	4	102	89.0%	95.0%	5.0%	1.0%		
Recirculation #4	29-Jul-2013	28-Aug-2013 23:59 ET	4	102	89.0%	95.0%	5.0%	1.0%		
Recirculation #5	21-Oct-2013	15-Nov-2013 23:59 ET	5	102	91.0%	96.0%	4.0%	1.0%		

## IEEE 1584.1

- process followed:  
address comments and send for recirculation if needed.
- Conventional wisdom :
- If resolution of comment not challenged during recirculation, it is OK

## Surprise ! Revcom disapproval

- From: Karen Evangelista [<mailto:k.evangelista@ieee.org>]  
Sent: 19 June 2013 11:06 PM
- RE: NEW P1584.1 (IAS/PCI) Guide for the Specification of Scope and Deliverable Requirements for an Arc-flash Hazard Calculation Study in Accordance With IEEE 1584
- Dear Daleep,  
  
I have to inform you that P1584.1 was disapproved by the IEEE-SA Standards Board on 14 June 2013  
  
There was a motion to recommend disapproval with a remedy for the sponsor to conduct a 30 day ballot on the most recent draft with the entire contents of the draft open to comment and not to attach any of the previous comments.  
  
Please contact me if you have any questions.  
  
Sincerely,  
\*\*\*\*\*  
• Karen M. Evangelista  
• IEEE-SA Governance, Senior Administrator  
• IEEE Standards Activities Department

## RevCom Disapproval

- Reason?
- Some comments during the initial ballot did not receive adequate resolutions, and it was not caught until the RevCom review
- Asked to do a 30 day review (without changes and address all comments- Do not worry about previous comments )
- Assigned two mentors



## Recirculation Cover letter

- Dear P1584.1 Balloter:
- 
- The purpose of this letter is to:
- Submit to you Draft 4 of the subject standard. This draft includes all of the changes made based on comments received during the original ballot and three recirculation ballots.
- Draft 4 is the same draft as was provided with the most recent ballot. Draft 4 is being re-balloted with the entire document open for comments. The ballot will be open for 30 days from the date of initiation of ballot.
- All new comments will be resolved per the normal IEEE-SA process
- Provide you an opportunity to change your ballot based on the above.

## Reasons for Disapproval

- Examples RevCom mentors cited for disapproval

Resolution status : Rejected

- Resolution response: Disagree

Resolution status : Out of scope

Resolution response : none

## IEEE 1584.1 Lesson learned

- Follow the process ( ANSI Required)  
Every comment has to be addressed at every stage
- Comment language “ Accepted” has to be included as submitted  
Resolution should be “Revised” if any tweaking is done
- Reject document require clear and precise reason based on scope, SA Process etc

## Concerns

- Some ballotters do not read the cover letters or do not understand the process that they can only comment on the revised part of the text during recirculations.
- **But**
- Still those comments to be addressed properly stating SA Clause that limits comments to revised text only
- Process is tilted towards resolution of negative ballots

# Thanks

- Thanks to Lisa Perry for providing archived information for this report

## WG tips

Marcelo Valdes  
Chair 1683... 9 years in the making,  
finished 2014

Thanks to:

Rachel Bulgaris & Craig Wellman

## Some tips, organizational

1. Standard, Guide, Recommended Practice, choose the right one
2. Ensure you are not stepping on toes of other standards and standard writing organizations... real or perceived.
3. Organize, have a plan, rely on experienced & committed team

## Execution

4. Hard to write a document with a cast of 1000'ds.
5. Select the few that will do the work, divide to conquer, delegate, follow up. Use the rest of the WG to review, comment, improve.
6. Filter commercial influences as much as possible. This is not an marketing tool!
7. Good editor: Once you have a first draft only "1" person owns it, touches it, changes it. Use a separate sheet in Excel or MSWord to list comments... do not have 50 people issue comments using MSWord review tools.
8. Secretary: Keep good minutes, records, lists, etc.

## Execution

9. Don't let the perfect stand in the way of the good enough.

## IEC TC31 Working Group 27 (WG27) and IEEE Category D Liaison to MT 60079-7 summary and report to the IEEE PCIC Standards S/C

Summary of Working Group and Maintenance Team meetings of March 2014 at Braunschweig Germany:

- Edition 4 of IEC 60079-15 (*Explosive atmospheres – Part 15: Equipment protection by type of protection "n"*), in effect since January 2010) is still current.
- A revision draft for the revision of IEC 60079-7 (*Explosive atmospheres – Part 7: Equipment protection by type of protection "e"*) Edition 4 (2006) is underway. As a result of direction from TC31, all of the motor requirements from the present "n" standard have been integrated into the "e" standard Draft
- For background, two classes of "e" protection have been established in the CD drafts– (1) **"eb" that corresponds to EPL Gb equipment** for explosive gas atmospheres, having a "high" level of protection, which is not a source of ignition in normal operation or during expected malfunctions; (2) **"ec" that corresponds to EPL Gc equipment** for explosive gas atmospheres, having a "enhanced" level of protection, which is not a source of ignition in normal operation and which may have some additional protection to ensure that it remains inactive as an ignition source in the case of regular expected occurrences (for example failure of a lamp). For your information, "EPL," from IEC 60079-0 stands for:

**equipment protection level (EPL)** level of protection assigned to equipment based on its likelihood of becoming a source of ignition and distinguishing the differences between explosive gas atmospheres, explosive dust atmospheres, and the explosive atmospheres in mines susceptible to firedamp

NOTE The equipment protection level may optionally be employed as part of a complete risk assessment of an installation, see IEC 60079-14.

The traditional association is that **EPL Gb is suitable for Zones 1 and 2**, and **EPL Gc is suitable for Zone 2**

- Progress on the Committee Draft (CD) is still moving slowly, with CDV planned for later this year (late 2014) Once the CD preparatory work is completed in October 2014, the draft will be sent out for national committee vote (CDV). When the 5<sup>th</sup> Edition of IEC 60079-7 is issued after the CDV vote comments have been resolved, the designation "Ex nA" for motors will disappear and will become **"Ex ec."** IEC 60079-15 will then be withdrawn.
- New annexes will be introduced in the next edition of IEC 60079-7 for ASD applications and some other topics.

Submitted by Paul Hamer, IEC TC31, IEEE Category D Liaison to MT 60079-7

**API Subcommittee on Electrical Equipment report to the IEEE PCIC Standards S/C**

Status of the API Standards and Recommended Practices of the Subcommittee On Electrical Equipment:

**API RP 500 and API RP 505** (Area Classification) – RP 500 is current (3<sup>rd</sup> Edition, 2012) and the ballot will be initiated soon for the Second Edition of RP 505, and ballots will be resolved in Spring 2015 (current RP 505, First Edition, is dated 1997).

**API Std 540** (Electrical Installations in Petroleum Processing Plants) -- Fourth Edition, 1999 – Revision has been in process for several years, the Fifth Edition will be balloted in November 2014.

**API Std 541** (Induction motors 500 hp and larger)--Fourth Edition is dated 2004 The 5<sup>th</sup> Edition has been held up in API editorial review for the last two years, since S/C Ballot approval. Final legal review is due to be completed within approximately one month, and the standard will be published before the end of 2014.

**API RP 545** (Lightning protection of hydrocarbon storage tanks) – Confused responsibility between the Tank and Electrical API S/Cs, and consistency with NFPA 780 requirements. Present edition is still valid. Limited Working Group activity.

**API Std 546** (Synchronous machines 500 kVA and larger) – 3<sup>rd</sup> Edition, 2008 Edition is current. Task Group Work has started and the next edition should be balloted after two more meetings (in Spring 2016); will reaffirm until then

**API Std 547** ("general purpose," sleeve-bearing induction motors 250 hp and larger) --First Edition was published in 2005; Second Edition has been approved and should have page proofs ready in October. Expect publication in 2015.

(Submitted by Paul Hamer for John Kitchel)



# Category D Liaison Report – IEC TC18

September 9, 2014

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 primarily focused in IEEE P80005-1, P80005-2 & P80005-3 working groups



# Meeting History

- ▶ IEEE participated in thirteen 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

February 2010, Rome, Italy

June 2010, Seattle, WA, USA

November 2010, Hamburg, Germany

# Meeting History

December 2010, Baltimore, MD, USA

October 2011, Oslo, Norway

April 2013, Long Beach, CA, USA

October 2013, Kristiansund, Norway

February 2014, Grenoble, France

July 2014, Seattle, WA USA

November 2014, Tokyo, Japan

February 2015, Italy

# Accomplishments

- ▶ IEC/ISO/IEEE 80005-1 was published in July 2012.
- ▶ CD issued for 80005-2 “Communication Interface Description”
- ▶ CD issued for 80005-3 “Low Voltage Shore Connection (LVSC) Systems - General requirements”

# IEEE Comments

- ▶ IEEE WGs submitted comments on the following documents over the past two years:
  - ▶ 80005-1, Aug 2013, circulation of 18/1332/DE
  - ▶ 80005-2, Oct 2013, circulation of 18/1336/CD
  - ▶ 80005-3, May 2014, circulation of 18/1369/NP
  - ▶ 80005-1, Sep 2014, circulation of 18/1386/CD

# Target Dates

- ▶ The following are our current target dates for publication:
  - ▶ 80005-1 Maintenance: Dec 2015
  - ▶ 80005-2 Development: Dec 2016
  - ▶ 80005-3 Development: Dec 2016

# 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)