

**IEEE PCIC Standards Subcommittee Meeting
MINUTES
Tuesday, October 6, 2015 – Houston, TX**

1.0 Call to Order

The meeting was called to order at 12:47 PM by the chair, Robert Durham, at the Hilton Americas - Houston.

2.0 Circulation of Roster

The chair introduced the officers. There were 4 officers, 35 members, 64 guests and 3 IEEE staff representatives that attended the meeting. 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 Gary Donner and second by Rich Hulett, the agenda was unanimously approved.

4.0 Approval of Minutes of Last Meeting

Daleep Mohla moved to accept the minutes of the September 9, 2014 meeting as written. Dennis Neitzel 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 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. Travis clarified that all PCIC WGs are under the same Policy & Procedures (Working Group Procedures 140317 posted on the IEEE Mentor site).

7.0 Old Business

Robert Durham, Standards SC Chair, recognized the following for publishing standards the past year:

Dwight Alexander	45.3	RP for Electrical Installations on Shipboard – Systems Engineering
Dennis Neitzel	45.5	RP for Electrical Installations on Shipboard – Safety Considerations
Rick Paes	1566	Standard for Performance of Adjustable Frequency Drives Rated at 375 kW & Larger

Robert Durham provided links to the new IEEE Public Review process discussed at Sunday's WG Officer workshop:

PR Presentation Link:

<https://mentor.ieee.org/pcic/dcn/15/pcic-15-0002-00-MMIN-ieee-sa-public-review-slides.ppt>

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PR Recorded Webinar:

https://supportcenter.ieee.org/app/answers/detail/a_id/1264/kw/public%20Review

8.0 New Business

- a. A number of PARs are due to expire December 31, 2015: P1580.1, P1814, P45.1, P45.8, P80005-2. Extension requests have been received for P45.1, P45.8 & P80005-2. The final deadline to submit extension request is 16 October 2015 for the December NesCom agenda.
- b. Daleep Mohla discussed issues with subgroup (task group) membership in P1584. Motion was made by Daleep to accept modifications to Policy & Procedures below shown in red. Motion was seconded by Ray Crow.

5.0 Subgroups of the Working group

The Working group may, from time to time, form subgroups for the conduct of its business. Membership in the subgroup shall follow the same rules as for working groups. Such formation shall be explicitly noted in the meeting minutes. At the time of formation, the working group shall determine the scope and duties delegated to the subgroup. Any resolution of a subgroup shall be subject to confirmation by the working group.

*The Chair of the Working group shall appoint the chair of the subgroup **and subgroup members.***

Background: P1584 WG consists of approximately 90 members. They establish Task groups (TG) for specific issues (like model evaluation etc.) to do preliminary work prior to sending to WG for comments/voting. The scope is defined and approved by the WG prior to formation of the task group. The TG normally meets once every two weeks or so by web conferencing etc. Since a large Sub task group gets very unwieldy to schedule, normally, WG officers select the TG chairs and members to keep balance instead of everyone who wants to join to keep balance (*some large manufacturing organizations have 6- 8 members in the WG*) and scheduling convenience.

Matt Ceglia, Senior Manager at IEEE SA, recommended that any proposed change be first reviewed by IEEE SA AudCom. Will McBride suggested that WG chair could submit subgroup to Standards SC chair for approval. Rich Hulett emphasized the need for balance when forming a subgroup.

Travis Griffith motioned to table to motion under consideration. Motion was seconded by Donald Voltz. Table motion failed upon vote.

Daleep modified original motion to read “*Submit suggested wording to Audcom for change in P&P’s, and direct workgroup to continue practice of chair appointing subgroup members until such time as advice from Audcom is received.*” Rick Bried seconded the modified motion. Motion was called to question. The call to question was passed by those voting.

A vote was taken on the modified motion. Motion passed with 22 YES and 8 NO votes.

9.0 Next Meeting

The next PCIC Standards Subcommittee meeting is scheduled for September 20, 2016 in

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Philadelphia, PA to be held in conjunction with the 2016 PCIC meeting on September 20th, in Philadelphia, PA.

10.0 Adjournment

There being no other business to conduct, a motion was made, seconded, and passed for adjournment. The meeting was adjourned at 1:50 PM by Robert Durham.

2014/15 Officers

CHAIR

Louis Barrios
Shell Projects & Technology

VICE CHAIR

Peter Baen
Thermon

SECRETARY

Dennis Bogh
GE Power Conversion



ADVISORY & AWARDS

Donald Dunn
Phillips 66

AWARDS NOMINATING

Bill Veerkamp
The Dow Chemical Company

CHEMICAL

Ryan Maynus
Siemens

CODES & REGULATIONS

Richard Hulett
Thermon

ELECTROCHEMICAL

Patrick Loupe
Occidental Chemical Co.

EMERITUS

Leo Berg
LBerg Technical Services

FACILITIES PLANNING

Tim Driscoll
OBIEC Consulting, Ltd.

FINANCIAL

Pam Gold
Thermon

HISTORICAL

Rick Bried
Shell Pipeline (Retired)

INFORMATION TECHNOLOGY

Clifton Oertli
NEI Electric Power Engineering, Inc.

INTERNATIONAL

Wolfgang, Berner
R. Stahl Inc.

MARINE INDUSTRY

Richard Barker
General Cable

MEMBERSHIP

Miriam Blazowski
Emerson / Appleton Group

PAPERS REVIEW

Dave Stewart
W.S. Nelson

PRODUCTION

Mike Harbison
W.S. Nelson.

PUBLICATIONS

Quent Reynolds
ABB / Baldor

PUBLICITY

Ken McFarland
Eaton's Crouse-Hinds Business

REFINING

Meredith Stranges
GE Power Conversion

SAFETY

Ed Larsen
Schneider Electric

STANDARDS

Robert Durham
Theway Labs

TRANSPORTATION

Andrew Ackerman
NEI Electric Power Engineering, Inc.

TUTORIAL

Daleep Mohla
DCM Electrical Consulting

YOUNG ENGINEERS DEVELOPMENT

Brant Cassimere
ExxonMobil

October 7, 2015

Please address reply to:

Richard Hulett
Thermon
237 Muse Dr
El Dorado Hills, CA 95762
Phone: 916-939-0394
e-mail: rich.hulett@thermon.com

CODES & REGULATIONS SUBCOMMITTEE MEETING REPORT

TO: Louis Barrios, PCIC Chair

Annual Codes and Regulations Subcommittee meeting:

Date: Sunday 4 October 2015
Time: 3:30 PM – 5:00 PM

Officers

Richard Hulett – Chair
Richard Holub – Vice Chair
Rachel Bulgaris - Secretary

Attendees

30 members (plus 2 excused absences)
14 aspirant members
14 guests
58 total in attendance

Codes and Regulations Activity

Update presentations on code related activities were done:

- New 2015 Canadian Electrical Code (CEC) - T. Driscoll
- Actions on PCIC supported Public Input to the 2017 NEC - E. Larsen / C. Sandberg
- SCC 18 Membership and IEEE CMP vacancies - E. Larsen



Key Actions on PCIC Member Public Input for 2017 NEC

2014 September C&R meeting

- *Entertained eight Public Inputs (code proposals) from C&R members*
- *Five of the PIs were successfully balloted for C&R support*
- *The five PIs were recommended to the Exec Subcom for PCIC support*

2014 September PCIC Executive meeting

- *The five were balloted and supported by the PCIC Exec Subcom*
- *These were submitted to SCC18 for IEEE support*

SCC 18 meeting

- *SCC18 not only agreed to support these five PIs, but submitted these five as IEEE Public Input (proposals).*

Code Making Panel (CMP) meetings

- *All five Public Inputs have been addressed and are included in the 2017 NEC First Draft*

Sincerely,

R. H. Hulett

Codes & Regulations Subcommittee, Chair





Work Group Name

PCIC Standards Subcommittee

Chair

Dr. Robert Durham

Vice Chair(s)

Travis Griffith, Art Smith

Secretary

Kevin Peterson

Participants

See SS Officers Roster

13 July 2015

WG Policies & Procedures

Approved by IEEE

17 March 2014

Progress toward deliverables

P&P posted & reference to be referenced in WGs
Next PCIC: Houston

Timeline

Standards Subcommittee meeting: Tuesday
October 6th 12:45 ~ 2:15 PM -- Location TBA

Future Meetings

Officer & WG officer conference calls as required
WG face-face at 2016 PCIC – Philadelphia
Sunday morning 7:00 am training session by Lisa
Perry



Work Group Name

PCIC Standards Subcommittee
Cable, Switchgear and Motor Section

Chair

Dr. Robert Durham

Vice Chair(s)

Travis Griffith, **Art Smith**

Secretary

Kevin Peterson

Participants

See CS&M Officers Roster 13 July 2015

WG Policies & Procedures

Approved by IEEE 17 March 2014

Progress toward deliverables

P&P posted & reference to be referenced in WGs
Next PCIC: Houston

Timeline

Standards Subcommittee meeting: Tuesday
October 6th 12:45 ~ 2:15 PM

Future Meetings

Officer & WG officer conference calls as required
WG face-face at 2016 PCIC - Philadelphia

Issues

PAR expiration: 1 – 2015 (1814)
1 – 2016 (1242)

7 inactive Working Groups – waiting restart in most cases



Work Group N ^o .	303
Work Group Name	PCIC Standards Subcommittee
Chair	Art Neubauer
Vice Chair(s)	John Rama
Secretary	
Participants:	See WG Roster
WG Policies & Procedures	
Progress toward deliverables	Revised Proposed PAR Scope and Purpose to include Class 2 Hazardous Areas;
Timeline	Received PAR approval October, 2014 WG Ballot July, 2017
Future Meetings	WG conference calls as required WG face-face at PCIC Houston
Issues	Need Secretary



Work Group N ^o .	463-2013
Work Group Name	Standard for Electrical Safety Practices in Electrolytic Cell line Working Zones
Chair	Daryld Ray Crow
Vice Chair(s)	Ken White
Secretary	Paul Buddingh
Progress toward deliverables	P463-2013 – Published October 4th, 2013
Timeline	Revision or withdrawal required by 2024
Future Meetings	No meetings planned
Issues	



Work Group N ^o .	IEEE 841
Work Group Name	Premium-Efficiency, Severe-Duty, Totally Enclosed Fan-Cooled (TEFC) Squirrel Cage Induction
Motors-	-Up to and Including 370 kW (500 hp)
Chair	Donald G. Dunn
Vice Chair(s)	Thomas Meuwissen
Secretary	Laura Reamer
Participants:	See WG Roster
WG Policies & Procedures	Utilize PCIC template
Progress toward deliverables	Active PAR 12-31-2018 expiration, IEEE 841-2009 New Leadership team held conference calls later half of 2014 and the first half of 2015. WG feedback request submitted and due August 3 rd seeking input on desired changes. Conference calls planned in September to discuss proposals.



Work Group N^o.

IEEE 841

Work Group Name

Premium-Efficiency, Severe-Duty, Totally Enclosed Fan-Cooled (TEFC) Squirrel Cage Induction

Motors-

-Up to and Including 370 kW (500 hp)

Timeline

Conference calls in September with meeting in Houston followed by additional calls and meetings. PAR expires in 12-31-2018

Future Meetings

WG meeting at PCIC Houston
Saturday, October 3, 2015; 1:00 – 2:00 pm

Issues

None at this time



Work Group N^o.
Work Group Name

1017-2013
RP for Field Testing Electric Submersible Pump
Cable

Chair
Vice Chair(s)
Secretary

Robert Durham
Bob Schuermann
Cameron Chung

Progress toward deliverables

Standard Published 2013

Timeline

Revision or withdrawal required by 2024

Future Meetings

No meetings planned

Issues



Work Group N ^o .	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	Standard Published 2013
Timeline	Revision or withdrawal required by 2024
Future Meetings	No meetings planned
Issues	



Work Group N ^o .	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	Standard Published 2013
Timeline	Revision or withdrawal required by 2024
Future Meetings	No meetings planned
Issues	



Work Group N ^o .	1068
Work Group Name	PCIC Standards Subcommittee
Chair	Chuck Yung
Vice Chair(s)	Bill Lockley
Secretary	
Participants:	See WG Roster
WG Policies & Procedures	
Progress toward deliverables	Ballot #2 completed; 94% approval
Timeline	Expect to finalize ballot responses mid-October
Future Meetings	WG conference calls as required WG face-face at PCIC Houston
Issues	Process is going well, but slower than I had hoped



Work Group N ^o .	P-1242	
Work Group Name	"IEEE Guide for Specifying and Selecting Power, Control, and Special-Purpose Cable for Petroleum and Chemical Plants"	
Chair	Art Maldonado	
Vice Chair	Vacant (Joseph Deegan-Tesoro passed away)	
Secretary	Bill Taylor	
Participants:	See WG Roster	6 Sept 2014
WG Policies & Procedures	Issued	17 March 2014
Progress toward deliverables	Balloting completed. Ballot resolution in-progress	
Timeline		
Future Meetings	PES Insulated Conductors Committee (ICC) Mtg in Tucson, AZ Nov 4, 2015	
Issues	PAR expiring in 2016	



Work Group N ^o .	IEEE 1349
Work Group Name	Motors in Hazardous Locations WG Committee
Chair	Lorraine Padden
Vice Chair(s)	Paul Anderson
Secretary	Rick Bried
Participants:	See WG Roster
WG Policies & Procedures	Approved 25 June 2012
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 Houston, TX Saturday, October 3, 2015; 4:00 – 5:00 pm
Issues	None

Work Group N^o. : 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 : **Jessica Morales**

Progress: The committee is doing a complete revision of the document. To date we are nearly finished with the revision and will very shortly start incorporating the new items and changes in the document.

NEMA and the IEEE have entered into an agreement where NEMA AB4 (Guidelines for Inspection and Preventive Maintenance of Molded Case Circuit Breakers Used in Commercial and Industrial Applications) and IEEE 1458 will both make the same recommendations and share data, drawings and photos.

It is anticipated that we will be ready for balloting in approximately 1½ to 2 years if we continue to make progress at our current pace.



Work Group N^o.
Work Group Name

P1566
**IEEE Standard for Performance
of Adjustable Speed AC Drives
Rated 375 kW and Larger**

Chair
Vice Chair(s)
Secretary

Rick Paes
Bob Hanna
Roger Lawrence

Status:

Standard has been completed and released on February 19th, 2015

Timeline

Revision or withdrawal required by 2026

Future Meetings

No meetings planned



Work Group N^o.

P1584

Work Group Name

IEEE Guide for Performing Arc-Flash Hazard Calculations

Chair

Daleep Mohla

Vice Chair(s)

Bruce McClung

Secretary

Jim Phillips

Progress:

Two task groups have been established to revise the existing IEEE 1584-2002 standard:

- IEEE 1584 - Model Evaluation Task Group
- IEEE 1584 - Revision Task Group

The results of these two Task Groups will be combined for the development of the next edition of the complete IEEE 1584 Standard

IEEE 1584

Model Evaluation Task Group

Scope

- Review the new model, model basis, methods, data
- Compare Results to the existing 2002 model
- Develop application guidance to be included in the text of the next edition of IEEE 1584 for review by P 1584 WG

IEEE 1584

Revision Task Group

Scope

- Revise and update the existing 2002 Edition of IEEE 1584
- This includes text and relevant tables
- Provide recommendations for illustrations
- The update shall also include:
 - 1584a Amendment 1 - 2004
 - 1584b Amendment 2 - 2011 - Changes to Clause 4

The scope does NOT include the proposed new model.



Work Group N^o.

P1584.1-2014

Work Group Name

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

Chair

Daleep Mohla

Vice Chair

Bruce McClung

Secretary

Jim Phillips

Progress toward deliverables

Published February 10th, 2014

Timeline

Revision or withdrawal required by 2025

Future Meetings

No meetings planned



Working Group N^o.

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

Vice Chair

Daleep Mohla

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 Houston

Issues

Need secretary



Work Group N^o.
Work Group Name

1683-2014
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
Vice Chair(s)
Secretary

Marcelo Valdes
David Pace
Craig Wellman

Progress toward deliverables

Standard Published 2014

Timeline

Revision or withdrawal by 2025

Future Meetings

No meetings planned

Issues



Work Group N ^o .	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	Standard Published 2014
Timeline	Revision or withdrawal by 2025
Future Meetings	No meetings planned
Issues	<i>Ed would like to pass baton as chair</i>



Work Group N ^o .	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	Duane Leschert (PCIC)
Participants:	See PCIC 2014 WG Roster
WG Policies & Procedures	9-07-14 Working on Draft 6
Progress toward deliverables	All sections are written, not all sections are reviewed and agreed on. The WG decided that they need more time.
Timeline	PAR was extended to December 2017.
Future Meetings	2015 PCIC Huston, TX, Fall ICC Tuscan, AZ, CC as needed.
Issues	None



Work Group N^o.
Work Group Name

P1814
Recommended Practice for Electrical System
Design Techniques to Improve Electrical Safety

Chair
Vice Chair(s)
Secretary

L. B. McClung
Gary Donner
Dennis Hill

Participants:
WG Policies & Procedures

45 Voting Members, 7 Task Groups, 7 Subject Areas
Extension thru December, 2015

Recent Meetings

PCIC September 2014 (Face to Face)
ESW 2015 (Face to Face)
Task Groups work via email and teleconference

Progress toward deliverables

“Grounding” Section Largely Completed
“Protection” Section Cleanup May-July 2015
“Equipment” Section Issues Being Addressed
Preparing Draft 11 for last circulation with entire WG,
address comments, then WG internal vote to go to
ballot/MEC



Work Group N^o.

P1814 (cont'd)

Timeline

Plan to Issue 2016

1. **Draft 11** Document final WG circulation before Sept 1, 2015. Extensive fixes needed from ESW 2015 WG meeting.
2. Enter Mandatory Editorial Coordination (**MEC**) Dec 15, 2015
3. Form **Ballot Group** in Dec 2015 or Jan 2016
4. **Balloting and Resolution** September 2015 to April 2016 (including meeting at ESW March 2016)

Future Meetings

2015 PCIC, Teleconference

Issues

Par expires December 31st, 2015

Will need 12 month PAR extension to complete



Work Group Name

PCIC Standards Subcommittee

Chair

Dr. Robert Durham

Vice Chair(s)

Travis Griffith (TH&S), Art Smith (C,SG, & M)

Secretary

Kevin Peterson

Participants

See SS Officers Roster

WG Policies & Procedures

Approved by IEEE

17 March 2014

Progress toward deliverables

P&P posted & reference to be referenced in WGs
Next PCIC: Houston

Timeline

SS meeting: Tuesday, 6 October

12:45 ~ 2:15 PM -- Hilton: Level 2 Room D

Future Meetings

Officer & WG officer conference calls as required
WG face-to-face at 2016 PCIC - Philadelphia

Issues

Brief notice by WG Chairs (see next slides)



Work Group Name

PCIC Standards Subcommittee
Trace Heating & Ships Section

Chair

Dr. Robert Durham

Vice Chair(s)

Travis Griffith

Secretary

Kevin Peterson

Participants

See HT&S Officers Roster 10 July 2015

WG Policies & Procedures

Approved by IEEE 17 March 2014

Progress toward deliverables

P&P posted & reference to be referenced in WGs
Next PCIC: Houston

Timeline

SS meeting: Tuesday, 6 October
12:45 ~ 2:15 PM -- Hilton: Level 2 Room D

Future Meetings

Officer & WG officer conference calls as required
WG face-to-face at 2016 PCIC - Philadelphia

Issues

PAR expiration: 6 - 2015
5 WGs inactive, awaiting re-start



Work Group N ^o .	P45
Work Group Name	Recommended Practice for Electrical Installations on Shipboard
Chair	Dwight Alexander
Vice Chair(s)	Vacant
Secretary	David Cartes
Participants:	Dot WG Officers
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	After all Dots complete
Timeline	TBD
Future Meetings	As required
Issues	No issues



Work Group N ^o .	P45.1	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Design	
Chair	Dwight Alexander	
Vice Chair(s)	Bob Koebke	
Secretary	Vicki Warren	
Participants:	See WG Roster	
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	WG Draft in progress	
Timeline	Final Draft Spring 2016	
Future Meetings	Monthly WG meetings via WEB	
Issues	PAR Expires 31 Dec 2015 ; PAR extension requested	



Work Group N ^o .	P45.2	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Design	
Chair	Vacant	
Vice Chair(s)	Mark Nelson	
Secretary	Vacant	
Participants:	Inactive	
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	Complete	
Timeline	Published: IEEE Std 45.2-2011	
Future Meetings	To be established	
Issues	Re-establishing a working group	



Work Group N^o.
Work Group Name

P45.3
Recommended Practice for Electrical Installations
on Shipboard – Systems Engineering

Chair
Vice Chair(s)
Secretary

Norbert Doerry
Dwight Alexander
John Amy

Participants:

See roster

WG Policies & Procedures

SS master P&P 17 March 2014

Progress toward deliverables

Balloting complete; awaiting publishing

Timeline

Published: IEEE Std 45.3-2015

Future Meetings

As required

Issues

None



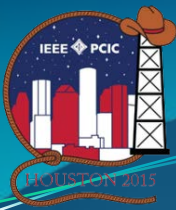
Work Group N ^o .	P45.4	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Marine Sectors and Mission Systems	
Chair	Dwight Alexander	
Vice Chair(s)	Vacant	
Secretary	Vacant	
Participants:	None	
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	No WG Draft yet	
Timeline	New PAR approved – expires 31 Dec 2019	
Future Meetings	Unknown	
Issues	Need to establish WG and get to work	



Work Group N ^o .	P45.5	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Safety Considerations	
Chair	Dennis Neitzel	
Vice Chair(s)	Rod Van Wart	
Secretary	Tim Gauthier	
Participants:	See WG Roster	28 May 2014
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	Completed	
Timeline	Published: IEEE Std 45.5-2014	
Future Meetings	TBD	
Issues	No issues	



Work Group N ^o .	P45.6
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Electrical Testing
Chair	Dwight Alexander
Vice Chair(s)	Richard Pitt
Secretary	Bruce Majer
Participants:	See WG Roster
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	No WG Draft progress identified
Timeline	PAR extended; expires 12/31/2016
Future Meeting	TBD
Issues	Need WG rejuvenated; Will begin 4Q2015



Work Group N ^o .	P45.7	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – AC Switchboards	
Chair	Steve Liggio	
Vice Chair	John Winbery	
Secretary	Vacant	
Participants:	See WG Roster	
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	Completed	
Timeline	Published: IEEE Std 45.7-2012	
Future Meetings	Re-form WG and start meeting in 2016	
Issues	No issues	



Work Group N ^o .	P45.8	
Work Group Name	Recommended Practice for Electrical Installations on Shipboard – Cable Systems	
Chair	Gary Savage	
Vice Chair(s)	T.S. Bhat	
Secretary	Art Maldonado	
Participants:	See WG Roster	
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	Ballot complete	
Timeline	Complete comment resolution 4Q2015	
Future Meeting	TBD	
Issues	PAR expires 12/31/15, extension request submitted	



Work Group N ^o .	P515
Work Group Name	Heat Tracing for Industrial Applications
Co-Chair	Richard Hulett
Co-Chair	Dusty Brown
Secretary	Vacant
Participants:	See WG Roster (inactive)
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	IEEE 515 was published in Sept 2011
Timeline	Revision or withdrawal required by 2021
Future Meetings	To be determined
Update	In September 2015 a PAR for the revision of 515 was submitted and approved



Work Group N ^o .	P515.1
Work Group Name	Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Commercial Applications
Chair	John Turner
Vice Chair	Pam Gold
Secretary	Paul Becker (pending)
Participants	See WG Roster
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	Published in 2012 – WG is inactive
Timeline	Decision to commence revision planned for 2016
Future Meetings	Information sharing session for the status of all trace heating standards scheduled for Houston PCIC Sunday morning
Issues	None



Work Group N ^o .	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	SS master P&P	17 March 2014
Progress toward deliverables	FDIS and IEEE recirculation balloting have been completed. P60079-30-1 & -2 were published on 28 September 2015.	
Timeline	None	
Future Meetings	None	
Issues	None	



Work Group N ^o :	P844.1
Work Group Name:	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:	SS master P&P 17 March 2014
Progress toward deliverables:	Skin Effect Trace Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements is a multi-sponsor project. A working agreement has been signed. Draft is 90% finished
Timeline :	PAR expires 12/31/2015
Future Meetings:	F-F & video conference Toronto: August 4 and 5 th . WG Face-Face at PCIC Houston.
Issues:	PAR expires 12/31/15 , extension needed



Work Group N ^o :	P844.2
Work Group Name:	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:	SS master P&P 17 March 2014
Progress toward deliverables:	Skin Effect Trace Heating of Pipelines, Vessels, Equipment, and Structures – Application Guide for Design, Installation, Testing, Commissioning and Maintenance is a multi-sponsor project. Agreement is signed. Draft 95% finished
Timeline :	PAR expires 12/31/2015
Future Meetings:	F-F & video conference Toronto: August 4 and 5 th . WG Face-Face at PCIC Houston.
Issues:	PAR expires 12/31/15 , extension needed



Work Group N ^o :	P844.3
Work Group Name:	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:	S&S master P&P 17 March 2014
Progress toward deliverables:	Impedance Heating of Pipelines, Vessels, Equipment, and Structures – General, Testing, Marking, and Documentation Requirements is a multi-sponsor project. Agreement is signed. Draft 35% finished
Timeline :	PAR expires 12/31/2015
Future Meetings:	F-F & video conference Toronto: August 4 and 5 th . WG Face-Face at PCIC Houston.
Issues:	PAR expires 12/31/15 , extension needed



Work Group N ^o :	P844.4
Work Group Name:	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:	SS master P&P 17 March 2014
Progress toward deliverables:	Impedance Heating of Pipelines, Vessels, Equipment, and Structures - Application Guide for Design, Installation, Testing, Commissioning and Maintenance is a multi-sponsor project. Agreement is signed. Draft 35% finished
Timeline :	PAR expires 12/31/2017
Future Meetings:	F-F & video conference Toronto: August 4 and 5 th . WG Face-Face at PCIC Houston.
Issues:	None



Work Group N ^o :	P844.5
Work Group Name:	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:	SS master P&P 17 March 2014
Progress toward Deliverables:	RP - Application Guide for Design, Installation, Testing, Commissioning and Maintenance of Induction Heating Systems for Pipelines, Vessels, Equipment, Structures and Induction Susceptor Heating Furnaces is a multi-sponsor project. Agreement is signed. Draft 60% finished
Timeline :	PAR expires 12/31/2017
Future Meetings:	F-F & video conference Toronto: August 4 and 5 th . WG Face-Face at PCIC Houston.
Issues:	None



Work Group N ^o .	P1580
Work Group Name	RP for Marine Cable for Use on Shipboard and Fixed or Floating Platforms
Chair	Rudy Bright
Vice Chair	T.S. Bhat
Secretary	Vacant
Participants	See Roster
WG Policies & Procedures	SS 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 ^o .	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	Charles Heron	
Secretary	Charles Smith	
Participants	See WG roster	7 April 2014
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	No report	
Timeline	No report	
Future Meetings	No report	
Issues	PAR expires 12/31/15	



Work Group N ^o .	P1662	
Work Group Name	Recommended Practice for Design and Application of Power Electronics in Electrical Power Systems	
Chair	Yuri Khersonsky	
Vice Chairs	Terry Ericson, Giorgio Sulligoi	
Secretary	Joe Piff	
Participants	See WG roster	September 2014
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	(Published 2008)	
Timeline	PAR expires 31 December 2018	
Future Meetings	No report	
Issues	No report	



Work Group N ^o .	P1709
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	SS master P&P 17 March 2014
Progress toward deliverables	(Published 2010)
Timeline	PAR expires 17 June 2020
Future Meetings	No report
Issues	No report



Work Group N ^o .	P1826
Work Group Name	Standard For Power Electronics Open System Interface in Zonal Electrical Distribution Systems Rated Above 100 kW
Chair	Yuri Khersonsky
Vice Chairs	Norbert Doerry, Terry Ericson, Roger Dougal
Secretary	Joe Piff
Participants	WG inactive
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	(Published 2012)
Timeline	PAR expires 31 December 2022
Future Meetings	No report
Issues	No report



Work Group N ^o .	P1886	
Work Group Name	Subsea Electrical Working Group Committee	
Chair	Roy Jazowski	
Vice Chair	Stephen Lanier	
Secretary	Vacant	
Participants	See WG roster	6 March 2014
WG Policies & Procedures	SS master P&P	17 March 2014
Progress toward deliverables	WG with IEC TC 18 in progress	
Timeline	61886.1 Ballot expected in 2016	
Future Meetings	PCIC Houston (3 October)	
Issues	New IEC numbers for joint WGs Start P1886.3 – Subsea Transformers by end '15	



Work Group N ^o .	P61886.1	
Work Group Name	PCIC Subsea Electrical – Power Connectors & Penetrators	
Chair	Mike Alford	
Vice Chair(s)	Stephen Lanier, Josselin Legeay	
Secretary	Stevenson Dansby	
Participants:	See WG Roster	9 May 2014

Subsea Electrical Working Group Status:

P1886.1 Draft Standard mailed to WG members for comments on March 14, 2014 Comments received and reviewed during meetings on July 29 and 30

On May 9, 2014, WG agreed, by vote, to accept proposal from IEC to form a joint IEC/IEEE WG

IEEE P1886 issued a revised PAR after IEC TC 18 issued a New Work Item Proposal (NWIP) to IEC.

PAR Renumbered 61886.1 to coincide with IEC/IEEE numbering

Modified PAR was approved by IEEE-SA Standards Board on June 11th, 2015

Meeting of IEC/IEEE 61886.1 WG scheduled for Aug 31 – Sept 1, 2015 in Houston

General Meeting of IEEE 1886 is scheduled for October 3, 2015 at PCIC in Houston



Work Group N ^o .	P80005-1
Work Group Name	High Voltage Shore Connection (HVSC) Systems – General Requirements
Chair	Kevin Peterson
Vice Chair(s)	Dev Paul
Secretary	Scott Baird
Participants:	See WG Roster
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	CD2 in circulation until Oct 16th
Timeline	Completion date May 2016
Future Meetings	WG conference calls as required WG face-face at PCIC Houston Joint IEC meeting in Los Angeles in December
Issues	Delayed on modification to cruise ship annex Comments on CD2 due 16 Oct 2015



Work Group N ^o .	P80005-2
Work Group Name	High Voltage Shore Connection (HVSC) Systems – Communication Interface Description
Chair	Kevin Peterson
Vice Chair(s)	Dev Paul
Secretary	Scott Baird
Participants:	See WG Roster
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	CDV issued January 2015 Comments reviewed at Milan joint mtg in April
Timeline	FDIS ~November 2015
Future Meetings 2016	WG conference calls as required Joint meeting with IEC/ISO in Vancouver in July WG face-face at PCIC Houston
Issues	Need to resolve cruise ship communications PAR expires 12/31/15 – Extension submitted



Work Group N ^o .	P80005-3
Work Group Name	Utility Connections in Port – Part 3: Low Voltage Shore Connection (LVSC) Systems
Chair	Kevin Peterson
Vice Chair(s)	Dev Paul
Secretary	Scott Baird
Participants:	P80005 WG Participants
WG Policies & Procedures	SS master P&P 17 March 2014
Progress toward deliverables	Comments on NP & PAS reviewed at April meeting in Milan
Timeline	Completion 2016
Future Meetings	WG conference calls as required Joint meeting with IEC/ISO in Los Angeles in Dec
Issues	PAS issued on 25 April 2014 Comments on CD due 9 Oct 2015



PCIC Standards Subcommittee

Travis Griffith
Trace Heating & Ships

2016 PCIC - Philadelphia
September 20
12:45 PM



Work Group N ^o .	P		
Work Group Name	-		
	-		
	-		
Chair	-		
Vice Chair	-		
Secretary	-		
Participants	-		
WG Policies & Procedures	SS master P&P		17 March 2014
Progress toward deliverables	-		
Timeline	-		
Future Meetings	-		
Issues	-		