

Chair: Vice Chair: Past Chair: Treasurer: Secretary:

R. Sherwin
To be named
J. Colby
G. Alsenas
G. Kelly

USNC/IECRE c/o ARESCA 256 Farrell Farm Rd Norwich, VT 05505 www.aresca.us



MEETING MINUTES

PLACE OF MEETING: Boston, MA

DATE OF MEETING: Tuesday, August 22, 2017

9:00 AM – 4:00 PM (Eastern Time) **Wednesday, August 23, 2017** 9:00 AM – 12:30 PM (Eastern Time)

PRESIDING OFFICER: Bob Sherwin, Chair

I. <u>ADMINISTRATION</u>

A. Chair's Introductions & Announcements

The Chair called the meeting to order at 9:15 AM. He thanked all those in attendance, and expressed the entire committee's sincere thanks to Bachmann Electronic Corp. for hosting the meeting and Tuesday evening reception. The CEO of Bachmann, Mr. Bernhard Zangerl, welcomed the committee and wished us success during the meeting.

B. Review of Antitrust & Meeting Guidelines

The purpose of antitrust laws is to preserve economic competition in the marketplace by prohibiting, among other things, unreasonable restraints of trade. In ARESCA activities, it is important to recognize that participants often represent competitive interests. Antitrust laws require that all competition be open and unrestricted.

It is ARESCA's policy, and the policy of each of its committees and subcommittees, to conduct all business and activity openly and transparently, and in full compliance with international, federal and state antitrust and competition laws.

C. Quorum Determination and Roster Review

The committee consists of twenty-two (22) voting members, 15-manufacturers, 6-CBs/TLs, and 1-General. At least a majority of the

voting members need to be present to constitute a quorum to establish a duly constituted meeting for the purpose of conducting business.

Thirteen (13) voting members were present, constituting a quorum.

VOTING MEMBERS PRESENT:	
AIG Global Property	Wally Ebner
Bachman Electronic Corp	
Boulder Wind Consulting	
EAPC Wind Energy Services	
First Solar, Inc.	
GE Power & Water	
Leidos Maritime Solutions	
McNiff Light Industry	
NextEra Energy, Inc	
National Renewable Energy Laboratory	
Resolute Marine Energy, Inc	
SNMREC	
Verdant Power	Jonathan Colby
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VOTING MEMBERS ABSENT:	
DNV KEMA Renewables, Inc.	Luke Simmons
EDP Renewables North America LLC	Itai Suez
Iberdrola Renewables	Scott Winneguth
Intertek	<u> </u>
Sempra US Gas and Power	
Siemens Wind Power Americas	
001111111111111111111111111111111111111	Luis Carbonell
SOH Wind Engineering	
	Robert Stewart
Underwriters Laboratories LLC	Robert Stewart
Underwriters Laboratories LLC	Robert Stewart Steven Margis
	Robert Stewart Steven Margis TIVE MEETINGS:
Underwriters Laboratories LLC MEMBERS ABSENT 3 OR MORE CONSECU	Robert Stewart Steven Margis TIVE MEETINGS:
Underwriters Laboratories LLC	Robert Stewart Steven Margis <u>TIVE MEETINGS:</u> Ray Immelman
MEMBERS ABSENT 3 OR MORE CONSECU DEPCOM Power	Robert Stewart Steven Margis <u>TIVE MEETINGS:</u> Ray Immelman

Note: DEPCOM voting status is currently recorded as "Observer" having missed three or more consecutive meetings. Sempra, DNV and Iberdrola missed the last meeting in April.

Spire Solar Inc.....Steve Hogan

D. Review/Approve Agenda

The Chair reviewed the agenda for the meeting, and it was approved with one addition (see III.D).

E. Acceptance of Previous Minutes

The minutes of the April 27, 2017 meeting were circulated to members on May 8 for review and approval. Members were advised that if no comments were received May 22, the minutes would be automatically approved. No comments or corrections were received.

II. SYSTEM AND SECTOR ACTIVITIES

A. PV-OMC (George Kelly)

- Report from the PV-OMC Meeting 19-23 Jun 2017 in Budapest, Hungary
 - a. ODs were assigned to the various working groups
 - b. New WG formed on Quality Assurance (but IECRE website calls it Quality Control)
 - c. About 15 RECBs & REIBs have applied; first 5 were approved by vote at meeting
 - d. Desire to move PV module certifications from IECEE to IECRE; but must have RE system up and running first
 - e. Debated German proposal for batch testing instead of factory audits; more details to be provided by German delegation
- 2. Appointment of US experts to WG409 (Quality Control)
 - a. Suggestion that 409 might be the wrong number unless all OMCs intend to have a similar WG
 - b. Already have standard (62941) & OD (405) for module factory; working on standards for inverter factory and system installation
 - c. JC: USNC should circulate call for experts (GK Action)
 - d. Discussed similar provisions already included in TC88 standards and background for development of PV documents
 - e. Consensus of USNC/IECRE is that all OMCs should have a similar WG
 - f. DB: Should recommend that WE and ME form similar groups; with associated standards development in TCs
 - g. BMc: Should add this to Feldkirch agenda (GK Action)
 - h. SK: Not yet clear whether existing plan is sufficient to achieve quality and trust; need further discussion of surprise audits and/or batch sampling

- 3. Discussion of strategy to promote IECRE within US PV industry
 - a. SL: some standards activity going on with SEIA
 - b. Bob: should talk to them since we are trying to attract new and more diverse membership
 - c. SK: efforts underway to promote IECRE in the US include magazine article and workshop at SPI conference
 - d. SH: background about how SEIA tried to promote SPI (not very successfully)
 - e. JC: should be working with Antoinette Price (apr@iec.ch) & Gabriela Ehrlich at IEC central office
 - f. SK: described recent outreach to PV companies in SF area; most people thought it was a good idea, but were reluctant to be first adopters. Best suggestion was to have major end users distribute letter of support for IECRE
 - g. SK: presented list of due diligence activities from Wells Fargo; SB agreed that this is the kind of thing we should be promoting to customers
 - h. DB: explained difficulty of "selling" certification internal to s company. Needs documented evidence to prove that reliability is improved and cost is justified
 - i. Bob: transaction cost has been reduced by standardization
 - j. DB: does not appear that certification has improved confidence within wind industry; Wally confirmed that details are not generally understood
 - k. SB: we should have a document and presentation explaining the value proposition
 - DB: should contact major banks and confirm what they need, or what we could do to reduce their uncertainty
 - m. JVD: not clear that IECRE certified products are any better than earlier ones; should be trying to generate evidence for this
 - n. Should also consider ASME practice for writing "contract-ready" language about applicable standards
 - SK: conclusion is to pursue letter of support from industry leaders and promote it heavily at an industry event. Reviewed draft content of letter. Point is not lower cost today, but over long time
 - DB: simpler path is showing that IECRE meets due diligence needs (and will lower costs because they don't have to be repeated)

- q. JVD: how do we get a list for WE like the one for PV? Sandy says this is a job for End User SG
- SL: already talked to his CEO; would support it but is concerned we must reach the right customers (both original and second owners
- s. SK: need help to further develop spreadsheet from Wells Fargo. GK to distribute to full committee; SK/GK to arrange meeting and more detailed discussions

B. ME-OMC (Gabe Alsenas)

- 1. Report on the progress of ME-OMC working groups
 - a. Last meeting in March; RoP approved (now out for REMC vote)
 - b. OD-300 (Test report requirements) approved; OD-310 (Conformity statement requirements) currently out for vote
 - c. Revenue projection and business plan approved (with minor comments)
 - d. Next major hurdle is getting CBs & TLs to participate; would be helpful to allow IACS accreditation (slightly different from ISO)
 - e. CBs seem willing to participate; more difficulty with TLs
 - f. SB: this seems age-appropriate for ME industry. Recommends consideration of a different funding model (learn from problems experienced in WE and PV so far)
 - g. JC: we are missing a lot of important stakeholders (e.g. less than half of TC114 P-members are IECRE members). Really need high-quality promotional material that can be readily used
 - h. JC/GA to prepare bullet point list for ME value proposition (concentrate on 'why' more than 'how') and solicit further input from marine sector. Will make this an agenda item for next meeting

C. WE-OMC (Bob Sherwin)

- Preparation for the WE-OMC Meeting 8-9 Nov 2017 in Feldkirch, Austria
 - a. Selection of US delegates Bob Sherwin, Brian Hill, Brian McNiff (Toby & Wally get free passes as SG leaders)
 - b. GK to circulate call for nominees ASAP, then ballot 1-Sep (closing 1-Oct)
- 2. Main topics to be discussed:

- Extension of transition plan CAB and SMB decisions to complete by end of 2018 and withdraw 61400-22. Will have everything needed for design and type certification; project certification will take longer
- b. Assessment of CBs perceived to be too weak; probably need revision of OD before end of transition plan
- Assessment of TL way too much redacted material; cannot make informed decision; has been a contentious discussion at both OMC and REMC level
- d. DB: should require approved TLs to use IECRE logo on report
- e. GA: there are legitimate reasons why a lab might not do this
- SB: fees should be based on lab approval rather than per report
- g. Bob: need list of contentious items to be raised at meeting

D. REMC (Jonathan Colby)

- 1. Preparation for the REMC Meeting 6-7 Nov 2017 in Feldkirch, Austria
 - Selection of US delegates Bob Sherwin, Brian Hill, Brian McNiff (Jonathan, George & Jeroen get free passes as TC leaders)
 - b. GK to circulate call for nominees ASAP, then ballot 1-Sep (closing 1-Oct)
 - c. Funding will be a big discussion (see III.B)
- 2. WG001 Rules of Procedure
 - a. Harmonized Basic Rules (IEC CA 01) have been revised; will require revision to IECRE supplement as well
 - b. Includes rules for demoting member bodies to non-voting status if they don't meet obligations
- 3. WG004 Promotion & Marketing
 - a. Had meetings in Hamburg and Budapest; significant resources available from central office (basecamp.iec.ch)
 - b. Need input on value proposition for marketing materials
 - c. Wally to follow up with Antoinette on circulating his value proposition
 - d. Should encourage ideas from all WGs and OMCs
- 4. Review of REMC agenda
 - a. Discussion of CB/TL assessments and competency;

- recommendation to "raise the bar" now that ODs are in place
- Should add agenda item about IEC CA 01 Ed. 2 and IECRE supplement Ed. 2
- c. SL: need model contract language to describe process and interactions between various parties involved in a project. May be premature or out of scope; will discuss in OMC first
- d. Sandy thinks the new financing model (effective 1-Jan-2018) will resolve the revenue problem (ref REMC/134/DV)
- e. We should also discuss expenses (for 2019 budget) and request more detail from central office; mixed opinions about attendance of IEC staff at meetings
- f. RW: suggest we say something about "recognizing we are operating at a deficit, perhaps some travel expenses should be reconsidered"

Feldkirch meeting schedule:

Thu/Fri	Nov 02/03:	WG 501
Mon	Nov 06:	REMC
Tue	Nov 07 AM:	REMC
Tue	Nov 07 PM:	SG meetings
Wed	Nov 08:	WE-OMC
Thu	Nov 09 AM:	SG meetings
Thu	Nov 09 PM:	WE-OMC
Fri	Nov 10 AM:	WG 003

III. OTHER BUSINESS

A. INTRODUCTION OF BACK OFFICE STAFF (Bob Sherwin)

- 1. Eric Palmer (BusinessCents) explained accounting system
- 2. QuickBooks version can be made available, but we are avoiding extra cost for now
- Will set up user accounts now for Treasurers of USNC/IECRE and ARESCA

B. REVISION OF USNC/IECRE RULES (Jonathan Colby)

- 1. Major changes include:
 - a. Change secretariat from NEMA to ARESCA

- b. "Gender neutral" language
- c. Selection and duties of sector group leaders
- 2. UL proposed several improvements to simplify and clarify language
- 3. BMc: deadline for US ballots doesn't provide enough time to resolve conflicting comments before submitting US votes
- 4. JVD: should be able to see everyone's comments, early enough to potentially change votes
- 5. JC: suggested process for sector leaders to collect comments and then request final vote
- 6. GK action to revise website so comments are visible to all before voting deadline
- 7. Agreed to shorten voting period (approx. 1/3 of IEC deadline) to allow for comment resolution and second ballot if needed

C. ELECTION OF NEW VICE CHAIR (Jonathan Colby)

Dan elected as vice chair; GK action to notify CAPCC

D. IECRE budget (Sandy Butterfield)

- 1. Need to rearrange funding model to overcome shortfall in revenues
- 2. Lots of possible solutions but none have complete support
- 3. Bob: value is in elimination of duplicated effort and should be captured in funding model

E. TREASURER'S REPORT (Gabe Alsenas)

- 1. Review of 2017 financial status
 - Did not recruit new members as planned; discussed process for adding new members and strategy for next year. Identified about 6 potential candidates
 - b. Have collected 60K of 65.5K (2 members have not yet paid); do not have money for reserve account
- 2. Planning for 2018 budget
 - a. Discussion of ANSI CA System fee (6K in 2018); several questions and suggestions about how to reduce this
 - b. Bob and Jonathan to discuss further with CAPCC during September meeting

- Gabe to circulate proposal for final 2018 budget for approval at next meeting; will include details about new membership and reserve account
- d. Want to streamline membership application as much as possible; GK action to develop simple email request for necessary information and CV. Will still require vote to approve new member

E. GENERAL MEETING 2022 SPONSORSHIP (Jonathan Colby)

- 1. US is hosting meeting; 2 of 4 CA systems have already committed to sponsorship; not sure we can raise enough money
- 2. Recommendation to begin budgeting for this over the next several years; may have to defer reserve
- 3. Will keep on the agenda for discussion at future meetings

F. OPEN BALLOTS (George Kelly)

- 1. Reviewed voting process and web pages.
- 2. US voting deadline has been set one week before IECRE deadline to allow for resolution of comments if necessary. It was agreed that this time should be increased.
- 3. All new ballots will be issued with a deadline of two weeks; and will be recirculated if any comments are received.
- 4. Two pages are available to access voting. (Original "boxes" page and new summary table). Agreed we should keep both, but don't need closed ballots to remain on the "boxes" page. (This will eliminate much of the manual editing that is now required.)
- 5. The infamous "gentle reminders" are not working and will be eliminated.
- 6. It was agreed to have direct link to voting page from the top menu on the front page to avoid going through the present 3 level menu
- 7. It was agreed to add a document archive page

BALLOTS OPEN AS OF 22-AUG-2017

Doc#	Title	US Voting Deadline
REMC/156/DV	Ratification of Beijing CGC Certification Center Co., Ltd. as an RETL for Power Curve measurements & Loads testing within the IECRE System (WE-OMC/193/DV)	24-Aug
REMC/157/DV	Approval of TÜV Rheinland LGA Products GmbH, Germany as RECB within the IECRE System for PV-OMC sector (PV-OMC/092/DV)	25-Aug
REMC/158/DV	Approval of TÜV Rheinland Energy GmbH, Germany as REIB within the IECRE System for PV-OMC sector (PV-OMC/094/DV)	25-Aug
REMC/144/DV	Ratification of TÜV Rheinland Industrie Service GmbH as an RECB (WE-OMC/184/DV)	26-Aug
REMC/137/DV	To approve IECRE 03 Ed. 1.0 Marine Energy Operational Management Committee (ME-OMC) - Rules of Procedure	31-Aug
REMC/146/DV	Ratification of China Quality Certification Center (CQC) as an RECB (WE-OMC/186/DV)	14-Sep
REMC/183/DV	Approval of TÜV NORD CERT GmbH as RECB within the IECRE System for PV-OMC sector (PV-OMC/097/DV)	14-Sep
REMC/184/DV	Approval of TÜV NORD CERT GmbH as REIB within the IECRE System for PV-OMC sector (PV-OMC/099/DV)	14-Sep
ME-OMC/066/DV	Document for Vote to approve OD-310 ME Certification Scheme: Conformity Statement Requirements	18-Sep
WE-OMC/202/DV	To ratify Moeller Operating Engineering GmbH as an RETL for Power Curve measurements & Loads testing within the IECRE System	18-Sep
PV-OMC/103/DV	Approval of the Draft IECRE 04 Edition 2.0 and the PV-OMC scope standard listing	16-Oct
REMC/185/DFA	Approval of the Draft WE-OMC Rules of procedure – IECRE 05 Edition 1.0	30-Oct

E. ACTION ITEM REVIEW (Bob Sherwin)

- 1. GK to circulate call for experts for WG 409
- 2. GK to request addition of WE-OMC Quality Control WG to Feldkirch agenda
- 3. GK to distribute spreadsheet from Wells Fargo to full committee; SK/GK to arrange meeting and more detailed discussions
- 4. GK to circulate call for nominees for delegates to Feldkirch meetings (WE-OMC and REMC) ASAP, then ballot 1-Sep (closing 1-Oct)
- 5. Wally to follow up with Antoinette Price on circulating his value proposition
- 6. GK to notify CAPCC that Dan elected as vice chair;
- 7. GK to develop simple email request for membership application
- 8. GK to request revisions to website:
 - a. Make comments visible to all voters (before voting deadline)
 - b. Direct link to voting page without going through 3 level menu
 - c. Addition of document archive page
- 9. GK to send invitations for 2-Oct and 30-Nov meetings (10:30am EST)

IV. MEETING SCHEDULE

2017 USNC/IECRE Meeting Schedule and Associated Meetings		
24-26 Jan 2017	USNC/CAPCC-TMC-Council	Fremont, CA
2 Feb 2017	USNC/IECRE - Establish US position on ME-OMC and WE-OMC agenda items	Conference Call
16-17 Mar 2017	TC 114 Marine Energy	Madrid, Spain
21-22 Mar 2017	ME-OMC Meetings	Madrid, Spain
3-4 Apr 2017	TC 88 Wind Energy	Boulder, CO
5-7 Apr 2017	WE-OMC Meetings	Boulder, CO
27 April 2017	USNC/IECRE - Delegate debrief from ME-OMC and WE-OMC; Establish US position on PV- OMC agenda items	Conference Call
18-19 May 2017	TC 82 Solar PV	Nara, Japan
6-8 Jun 2017	USNC/CAPCC-TMC-Council	Pittsburgh, PA
19-23 Jun 2017	PV-OMC Meetings	Budapest, Hungary
22-23 Aug 2017	USNC/IECRE - Delegate debrief from PV-OMC; Establish US position on REMC and WE- OMC agenda items	Boston, MA
12-14 Sep 2017	USNC/CAPCC-TMC-Council	Corning, NY
2 Oct 2017	USNC/IECRE - Establish US position on any additional REMC and WE- OMC agenda items; discuss 2018 budget	Conference Call
9-13 Oct 2017	81st IEC General Meeting SMB/CAB/Council	Vladivostok, Russia
6-7 Nov 2017	REMC Annual Meeting	Feldkirch, Austria
2-10 Nov 2017	WE-OMC and WG Meetings	Feldkirch, Austria
30 Nov 2017	USNC/IECRE - Delegate debrief from REMC and WE-OMC; approve 2018 budget	Conference Call
4-6 Dec 2017	PV-OMC WG Meetings	Madrid, Spain

GK action to send invite for 2-Oct and 30-Nov meetings (10:30am EST)

2018 USNC/IECRE Meeting Schedule and Associated Meetings			
Jan 2018	USNC/CAPCC-TMC-Council	Florida or North Carolina	
Feb 2018	USNC/IECRE - Establish US position on OMC agenda items	Conference Call	
19-23 Mar 2018	TC 114 Marine Energy	Seattle, WA	
26-27 Mar 2018	ME-OMC Meetings	Seattle, WA	
9-13 Apr 2018	PV-OMC Meetings	Shanghai, China	
16-20 Apr 2018	TC 88 Wind Energy	Glasgow, Scotland	
16-20 Apr 2018	WE-OMC Meetings	Glasgow, Scotland	
May 2018	USNC/IECRE - Delegate debrief from ME-OMC, WE-OMC and PV-OMC	Conference Call	
May 2018	USNC/CAPCC-TMC-Council	TBD	
Sep 2018	USNC/IECRE - Establish US position on REMC and OMC agenda items	Juno, FL?	
Sep 2018	USNC/CAPCC-TMC-Council	TBD	
14-19 Oct 2018	TC 82 Solar PV	Busan, Korea	
15-26 Oct 2018	82nd IEC General Meeting SMB/CAB/Council	Busan, Korea	
Oct-Nov 2018	REMC Annual Meeting	Beijing, China?	
Oct-Nov 2018	WE-OMC Meetings	Beijing, China?	
Oct-Nov 2018	PV-OMC Meetings	TBD	
Nov-Dec 2018	USNC/IECRE - Delegate debrief from REMC & OMC; approve 2019 budget	Conference Call	

V. <u>ADJOURNMENT</u>

The meeting was adjourned at 12:30 PM on 23-Aug-2017.

Submitted by G. Kelly USNC/IECRE Secretary 30-Aug-2017