



USNC TECHNICAL MANAGEMENT COMMITTEE (TMC)

MINUTES

Meeting

**Sony Electronics Inc.
16535 Via Esprillo
San Diego, CA 92127**

**Wednesday, 13 January 2016
9:00 a.m. – 4:30p.m. (PST)
(Meeting #47)**

Members Present

Alec McMillan (Chair)	Member	Rockwell Automation
Sonya Bird (Vice Chair)	Member	UL
Kenneth Gettman	Member	NEMA
Calvin Luong	Member	CSA Group
Charley Robinson	Member	ISA Standards & Technology
John Thompson	Member	Underwriter Laboratories Inc.
Don Heirman	Member	DH Consultants
Hae Choe	Member	AAMI
Veronica A. Lancaster	Member	CTA
William Lawrence, Jr.	Member	FM Approvals
Jodi Haasz	Member	IEEE
Robert J. Kretschmann	Member	Rockwell Automation
Steven Swanson	Member	Corning Incorporated
Tom Buchal	Member	Intertek
Ethan Biery	Member	Lutron Electronics
Joe Musso	Member	UL

Edward Mikoski Jr.	Member	ECIA
Matt Williams	Member	AHAM

Guest Participating

Philip Piqueira	USNC President	UL
Hanan Attia	Guest	Thomas & Betts
Dave Delaquila	Guest	Aquila Consulting, LLC
Dalia El Tawy	IECEX Treasurer	Solar Turbines Incorporated
Sean Alexander	Guest	Solar Turbines Incorporated
Edward Hong	Guest	Solar Turbines Incorporated
Kevin J. Lippert	USNC VP, Membership Dev	Eaton
James Matthews	IEC VP / SMB Chair	Corning Incorporated
Paul Green	CAPCC Member	Intel Corp
Mark Earley	Council Member	NFPA
Michael Woodford	CAPCC Member	AHRI
Claudia Sama Alvarez	Mexican National Committee	DGN
Margie Burk	Guest	UL
Paul Hearty	Council Member	Sony
Jonathan Colby	TA-IEC/TC 114	Verdant Power
Timothy T. Duffy	USNC VP - CA	Rockwell Automation
Mike Woodford	CAPCC Member	AHRI
Elisabeth George	CAPCC Member	Philips
Gary Schrempp	CAPCC Member	Dell
Paul Moliski	Council Member	Intertek
Steve Rood	Council Member	Legrand, North America
Jianchao Zeng, Ph.D	Council Member	FDA
Megan Hayes	Council Member	MITA
Dr. Richard McDermott	Council Member	ECC Corp.
Sandy Butterfield	CAPCC Member	Boulder Wind Consulting

Peter Pondillo	Council Member	Corning
Greg Orloff	Council Member	CSA Group
Robert Williams	Member	UL
Trudie Williams*	Council Member	DoD
Kevin Ravo*†	Guest	UL
Dan Manole*†	ACEA/ACEE Rep	Rockwell
Pam Gwynn*†	TA – IEC/SyC AAL	UL
Joe Tretler	VP of International Policy	ANSI
Debbie Negron-Badillo	USNC Staff	ANSI
Tony Zertuche	USNC General Secretary	ANSI

Members Not Participating

Bill Fiske	Member	Intertek
Ken Gettman	Member	NEMA
Charley Robinson	Member	ISA
Matt Williams	Member	AHAM

* = Via Teleconference

† = Part Time

Section 1 Organizational Matters

1.1 Welcome, Opening Remarks and Introductions

Alec McMillan called the meeting to order at 9:00 a.m. (PST) and welcomed everyone to Sony Electronics Inc. in San Diego, CA. The Committee gave introductions among others along with congratulating Underwriters Laboratories’ John Thompson in becoming the new USNC President-elect of 2016.

1.2 Approval of Agenda (USNC/TMC 892A)

1.2.1 Approval of Consent Agenda

Mr. McMillan called attention to the Consent Agenda (USNC/TMC 892A) and asked if any items should be removed for detailed discussion. None were suggested, it was moved, seconded and

VOTED #1 To approve the Consent Agenda (USNC/TMC 892A)

(This motion was approved unanimously.)

1.2.2 Approval of Balance of the Agenda (USNC/TMC 892A)

Mr. McMillan invited any additions or changes to the balance of the agenda and Ethan Biery and Jonathan Colby asked if their Young Professionals presentation could be included in the agenda. There were no objections to its inclusion so the new balance of the agenda was moved, seconded and

VOTED #2 To approve the Balance of the Agenda (USNC/TMC 892A)

(This motion was approved unanimously.)

Section 2 Status of Outstanding Action Items

There were no Action Items to report from the last TMC Meeting.

Section 3 USNC TMC Participation and Membership

3.1 USNC TMC Membership Issues

Alec McMillan asked the TMC for its thoughts on whether or not there should be restrictions on being a member of more than one USNC Management Committee, specifically on both TMC and Council. There were arguments for and against permitting dual membership in TMC and Council. One comment dealt with the possibility of one person being sent by an organization to attend all three meetings which would perhaps lessen the amount of expertise that each of the USNC committees now enjoys. However, in response to this, some noted that there are indeed participants to these meetings that can handle all aspects of standardization and conformity assessment. Ultimately, the TMC felt that the USNC Statutes should remain as is regarding membership on the management committees. There was agreement that a recommendation to the USNC Council should be made to keep the statutes as they are with potential exemptions for small companies/organizations. This proposal was moved, seconded and

VOTED #3 To recommend to USNC Council that rules for USNC Management Committee membership remain the same.

(This motion was approved unanimously.)

Afterwards, there was a very brief discussion regarding the harmonization of the TMC and CAPCC terms of office. Currently, the TMC term of office is 3 years with re-election for successive terms while CAPCC Members-at-Large serve consecutive periods of 2 years. CAPCC Chair, Tim Duffy, announced that he would recommend that the CAPCC follow the TMC model and go to a 3 year term.

3.2 IEC/TC 78 & the Issue of TAG Activity and TC Scope

Mr. McMillan led a discussion on the organization and effectiveness of TAGs for IEC/TCs with very broad scopes. The members discussed a number of issues including the conflicts of overlap in scopes. They focused on looking at the experts' area of work along with keeping the whole TAG engaged. This issue will be recommended for a future SMB CAG meeting.

Section 4 Presentation on Mexico's involvement in Standards

Ms. Claudia Sama Alvarez, General Secretary of the Mexican National Committee, provided an excellent report (**ATTACHMENT A**) which highlighted the following:

- Improving Mexico's participation in IEC
- Promoting international standardization activities in the region of the Americas
- Increasing the adoption of International Standards
- Federal Law on Metrology and Standardization
- Participation in FINCA, COPANT, PASC, APEC, & CANENA

After the presentation, Mr. McMillan announced that the February 2017 SMB meeting would be held outside of Geneva and with various NCs already volunteering to host it. There was immediate agreement that for the USNC, the best location for the early 2017 SMB Meeting would be Mexico. Mr. McMillan indicated that the group would visit this topic later on in the agenda.

There was then a question regarding Mexico's national Young Professional (YP) program. The USNC / ANSI are currently trying to develop a national YP program and is looking to other NCs like Mexico for ideas and input. Ms. Sama indicated that the Mexican National Committee is currently redeveloping its program which deals with many aspects of standardization but focuses particularly on certification bodies. The program includes a 3-hour workshop and uses a savvy media campaign which has recently created a mobile application for cell phones to gain momentum.

Section 5 Standardization Management Board (SMB) Issues

5.1 SMB SyC Smart Energy

Ryan Franks, USNC Representative to SyC SE, submitted a written report for review.

5.2 SMB SyC Active Assisted Living

Pam Gwynn provided a report on the SyC AAL meetings (including WGs) that took place in Tokyo, Japan. She paid special attention to the activities of WG 1 which deals with user stories announcing that the group had come away with defined analysis of their objective. She added that WG 2 is currently waiting for the work from WG1 to come through. A question was posed as to the seemingly slow pace of the work. Ms. Gwynn responded that although in the beginning this may have been true, things are getting much better.

5.3 SMB SEG 1 / SyC Smart Cities

Mr. Zertuche updated the TMC on the efforts to approve the establishment of this SyC and the USNC's anticipated participation in the Committee including the creation of a new TAG. It appears that some in the broader standardization community are concerned about the number of initiatives being developed in the major international standards bodies. However, it is important to recognize that there are pros and cons to having more than one area of standardization. Some feel that one positive aspect of having multiple groups is that each one can have a different perspective and view the Smart City initiatives with a different set of lenses. The value comes when all the groups can work and collaborate together and bring to the table a better holistic view when compared to working independently. However, there are concerns about this collaborative effort being achievable. In any case, one of the critical aspects in making this happen is having the right leadership at the forefront of the IEC SyC Smart Cities committee.

It is anticipated that the USNC will become a P-Member of this Committee once it becomes approved. At such time, the USNC Office will reach out to interested parties and experts to form a TAG.

5.4 SMB SEG 4 Low Voltage Direct Current Applications

USNC Representative to SEG 4, Brian Patterson, was invited to submit a report but did not get one in on time. However, SMB Chair, Jim Matthews, did inform the TMC that SEG 4 had a very successful meeting in October with a strong turnout with over 200 experts with 30 speakers. Furthermore, there appears to be wide participation from all over the world that is working in a variety of areas.

5.5 SMB SEG 6 Non-traditional Distribution Networks / Microgrids

Mr. Franks submitted his written report on the work of SEG 6.

5.6 Advisory Committee on Electromagnetic Compatibility (ACEC) / US Coordinating Committee on EMC

Don Heirman updated the TMC on ACEC and the USCCEMC. The last meeting of ACEC was held on 17-18 November in Boston, USA. The meeting was hosted by the IEC with the USNC accommodating some of the food functions as a courtesy as this was not a USNC-sponsored meeting. Don Heirman presided as chairman as well as representing CISPR. Some meeting highlights include:

- Coordination between TC 13 and TC 22 on EMC Compatibility Levels
- TC reports
- Review of TC documents containing EMC
- ACEC workshop in China at the Asian-Pacific EMC Symposium, 18-21 May 6015
- ACEC Young Professionals Program

Mr. Heirman asked that the TMC continue to identify the ACEC topics listed in the report with those of US TAGs with EMC responsibilities in these areas. The USCCEMC will continue to assist with that coupling. One of his recommendations was for the TMC to determine any linkages with the ACEC workshop and the updating of the EMC home page on the IEC website with plans for USNC educational offerings that can be used for a half day “Introduction to EMC” course.

5.7 Advisory Committee on Environmental Aspects (ACEA) / USNC Coordinating Committee on Natural Environmental Aspects (USCCENV)

Dan Manole called into the meeting to speak on the issues concerning ACEA; of primary concern was the upcoming review of the AC by the SMB in February. He recommended that the USNC continue its support of the Advisory Committee and, if possible, increase its engagement. The major questions asked of ACEA continue to circle around whether or not the group is useful to the committees of the IEC, does it add value? It will be up to the ACEA Representative at the SMB Meeting to try and answer these questions during his presentation. Mr. Manole urged the USNC to submit its comments on the matter as soon as possible.

5.8 Advisory Committee on Energy Efficiency (ACEE) / US Coordinating Committee on Energy Efficiency (USCCEE)

Mr. Manole also briefed the TMC on the Advisory Committee on Energy Efficiency. One of the takeaways from his report was a recommendation for the TMC to take a closer look at the ACEE Guide CDV which is up for vote. Mr. Manole admitted that the benefits addressed in the proposed guide do not appear to be beneficial for the USNC and, therefore, the US should vote against it.

5.9 Advisory Committee on Safety (ACOS) and US Safety Coordinating Committee (USSCC)

Mark Earley presented his comprehensive report to the Committee which included a number of topics being addressed by ACOS. Some of the topics included:

- ACOS mentoring in general safety aspects to the Young Professionals Program
- TC 22 requested an extension of its group safety function for power electronic converter systems
- Power over Ethernet ACOS encouraged close coordination between TC 64 and TC 108
- Output of USB power supplies and safety aspects
- Techniques for event-based risk analysis

After his report, Mr. Earley informed the TMC that his first term as USNC Representative to ACOS had ended and that he would like to continue in the role. In response to this information, the TMC agreed to reappoint him and so the proposal was moved, seconded and

VOTED #4 To reappoint Mark Early as the USNC Representative to the IEC SMB Advisory Committee on Safety.

(This motion was approved unanimously.)

In addition, Mr. Earley recommended that his fellow US colleague on ACOS, Larry Farr, should be removed from this and all committees as he is now retired (**ACTION ITEM #1**).

5.10 Advisory Committee on Electricity Transmission and Distribution (ACTAD) and US Coordinating Committee on Electricity Transmission and Distribution (USCCTAD)

Mark McGranaghan, USNC Representative to ACTAD, submitted a report (**ATTACHMENT B**) for the TMC to review.

5.11 Advisory Committee on Security (ACSEC)

The USNC Representative to the newly formed ACSEC, Brian Fitzgerald, informed the USNC office that he has been dealing with some external issues and so was excused from reporting. He will provide an update to the TMC at their next meeting at FM Approvals in May.

5.12 Strategic Group #8 – Industry 4.0 / Smart Manufacturing

Mr. McMillan updated the TMC on a variety of current activities being undertaken by SG 8 for which he is the co-convenor. He informed the members that the SG has established an active liaison with ISO. The SG last met in October in Frankfurt before the IEC General Meeting in Minsk and will meet again via teleconference to go through plans and proposals from prospective stakeholders. Some more highlights from their work include:

- Developing an architectural drawing of standards domains
- Meeting with the newly formed Systems Resource Group to discuss what types of IT tools are available to them; i.e. use case tool used for TC 8 with smart grid
- Meeting with TC 3 Terminology

SG 8 will develop a report for the SMB.

5.13 Strategic Group #10 – Wearable Smart Devices

Kevin Ravo reported to the TMC via teleconference and gave a briefing on the future plans of the new SG. He also submitted a written report which he spoke from during the meeting (**ATTACHMENT C**) that specifically outlined the issues being tackled at each of the SG's meetings thus far.

5.14 Report of SMB Groups

The TMC engaged in a discussion on the need for Coordinating Committees (CCs) and VTAGs that correspond to the various current and new SMB Groups. Mr. McMillan asked Don Heirman to speak on behalf of a successful Coordinating Committee, the US Coordinating Committee on EMC that corresponds to the IEC Advisory Committee on Electromagnetic Compatibility (ACEC). Many agreed that the USNC Coordinating Committees already function as VTAGs - and visa-versa - and as such are still very valuable to our members even if they tend to not be very active in terms of member participation. To aid in this, there was a suggestion that perhaps the USNC needs to place the reports, agendas, and various other documents for these groups onto a shared site for all TMC members to access and review. One of the former Young Professionals recommended using some type of wiki application to share documents for editing versus ANSI's Sharepoint site which can present issues when used by multiple users. The TMC agreed that a small task force be formed to investigate the variety of IT applications available that could be used by the Committee to access, review and provide input on documents presented before the different CC's and VTAGs (**ACTION ITEM #2**).

5.15 IEC Directives Maintenance Team

Mr. Zertuche gave his report on the DMT where he highlighted some current activities being undertaken by the Team, such as:

- The 12th edition of the ISO/IEC Directives, Part 1 is targeting a publish date for April 2016 and will include all modifications approved by SMB and TMB since the publication of the previous edition. It was decided at the JDMT meeting in London 2014 not to publish new editions if the updates were only editorial.
- A revision of ISO/IEC Directives Part 2 has since been approved by the SMB.
- The technical officer's workshop at the GM in Tokyo received many comments from an experienced TC secretary related to the ISO/IEC Directives. The DMT has addressed these comments.

Also, SMB ahG 61 *Review of DMT mandate*, set up at SMB Meeting 154, held its meeting on 2016-02-24 at IEC Central Office in Geneva. The Group submitted 8 recommendations for the SMB to approve regarding the DMT's mandate. These updated topics had to do with the DMT's Terms of Reference including tasks, membership, meetings and reporting, among others.

There was a recommendation from the TMC that perhaps the USNC should add a section on the HoD report form so that our US delegations can add any questions or comments about the Directives (**ACTION ITEM #3**).

5.16 Report of SMB Groups

Mr. Matthews briefed the TMC on the status of work from all the SMB groups currently in operation:

- SG 9 is focused on scope development.
- The Advisory Committee on Applications of Robotic Technology (ACART) is just getting off the ground so the SMB will wait to hear from them.
- AhG 62 is trying to figure out how to get more of the CEN/CENELEC work on the IEC's table but there is little interest from constituents.
- AhG 63 is still having difficulty making progress. There was a suggestion that TMC Member, Bill Lawrence, could join the Group on the standards side which might produce better results.

5.17 Consideration of USNC Positions for the 23 February 2016 SMB Meeting

Mr. McMillan read through the SMB Agenda to focus on issues not addressed elsewhere in the TMC Meeting to help determine appropriate USNC positions:

- Thomas Edison Award for Ms. Margie M. Burk, Assistant Secretary TC 61, 72 and 108
- Proposal from the Japanese NC for a new TC on *Electrotechnical Aspects of Asset Management for Power Networks*
- TC 10 – Follow-up on SMB Decision 153/15: IEC 62701 withdrawn by the SMB
- Procedures for the submission of Questions of Principle
- Funding of IEC Interim Working Group Meetings

Finally, as discussed earlier, SMB meetings held after 2017 can be held outside Geneva every two years, upon invitation. For the February 2017 SMB Meeting, the IEC Central Office received invitations from NCs from the UK, Italy, India, Austria and Mexico. Messrs. McMillan and Zertuche expressed their support for Mexico as the next location based on both proximity and trilateral relations. The TMC agreed that the USNC should vote for Mexico as the host for the 2017 February SMB Meeting.

Section 6 Managements and Communications Items

6.1 Reports TAs, Secretaries in Attendance

Dalia El Tawy, Treasurer for the USNC/IECEX and Business Development Program Manager, Solar Turbines Incorporated, gave a presentation on Solar Turbines, which drew a very favorable response from the entire committee (**ATTACHMENT D**).

6.2 Group Manager (GM) Assignments & Responsibilities

Mr. Zertuche briefly went over the GM assignments and announced that the revised GM Roles and Responsibilities document is in its final review by the task force. After this review it will be handed over to the TMC Subcommittee on TAG Operating Procedures to ensure proper synchronization with the TAG Procedures before being sent out to the whole TMC for review and approval.

6.3 TMC Subcommittee on TAG Operating Procedures

Sonya Bird reported on the latest updates to the Model Operating Procedures for USNC/IEC Technical Advisory Groups. Mr. Zertuche then led a discussion with Ms. Bird about the few unique procedures currently under review for SC 37A and B, TC 62 and SC 62A, and CISPR I. A face-to-face meeting will be scheduled to address these remaining unique procedures before recommendations are made to the TMC.

6.4 Call for TAs, IEC Secretaries, TAG Secretaries

An update was given on the various USNC/IEC positions that need to be filled or reappointed before their terms expire.

6.5 Report from USNC Task Force on Adoptions

Mr. McMillan spoke to the TMC on the latest developments from the USNC and IEC with regard to the National Adoptions Database. ISO and IEC developed a database of ISO and IEC standards that have been adopted by national committees. This database has been made available to the Secretaries of the IEC National Committees with the implied expectation that the NCs will maintain the database. However, no direction was given to the NCs as to their role in the maintenance of the database or how the database is to be maintained or used. The USNC submitted a list of proposals to the IEC officers for consideration and all recommendations were not only accepted but some of them are already in development. The Task Force submitted their report (USNC/TMC 900) to the TMC for approval and asked that their group be officially disbanded. This proposal was moved, seconded and

VOTED #5 To Approve the Report and Disband the TMC Task Force on National Adoptions.

(This motion was approved unanimously.)

Section 7 Technical & Policy Issue for Consideration

7.1 COPANT TC 151 & TC 152

Mr. Zertuche led a discussion on whether or not the USNC should continue to seek participation on both COPANT TCs. The representatives from NEMA indicated their continued interest and asked that the TMC hold off on any decisions for USNC participation in the COPANT TC's until more consideration could be given by the potential members.

7.2 IEC SMB Chair Election

Mr. McMillan reported to the TMC that a few candidates have already indicated their interest in the position of IEC Vice President / SMB Chair which is to be vacated by Jim Matthews at the end of 2016. The nomination notice has gone out and thus far, three nominees have indicated their intent to run:

- Kim Craig, Australia
- Dr. Ralph Sporrer, Germany

- Dr. Kasuki Tsusumi, Japan

The election will take place at the 2016 IEC Council meeting in Frankfurt during the IEC General Meeting. The TMC members discussed the qualifications and experience of the candidates; however, as it was still early in the nomination process, no formal endorsements were made. A question was asked regarding how many votes were necessary to elect a candidate and the answer was that a simple majority wins.

7.3 Innovation Workshop at 2016 IEC General Meeting Frankfurt

Mr. McMillan introduced the German National Committee initiative dealing with the future of standardization and conformity assessment. It is hoped that this program will address how to balance the demands of our fast data society with the time intensive work required to write and publish standards. This “Reinvention Laboratory” is intended as a forum to present and discuss a wide range of ideas, concepts, strategies and visions from the world of standardization. The German NC has asked the USNC to actively participate in this program throughout the year leading up to the 2016 IEC GM.

Section 8 Regional Outreach

Mr. Piqueira provided updates on the USNC’s regional initiatives and opened the floor for discussions on the following programs:

- FINCA
- COPANT
- PASC
- USNC Mentoring Program

Most of the discussion centered on the continuation of the USNC Mentoring Program and the search for a new candidate NC for the 2016-17. The mentoring program’s first “protégé NEC” was Costa Rica; which by all accounts was a successful endeavor despite the lack of funding needed for them to become a full National Committee. The experience with Chile as the next participant in the program had many more challenges and so the USNC is now left with whether or not to continue the entire mentoring initiative at all. The discussion was tabled until the USNC Council Meeting the following day since it is their members who will ultimately have the final decision.

Section 9 Young Professional Program Presentation

Ethan Biery gave a presentation (ATTACHMENT E) to the TMC that was prepared as a result of an action item from the USNC Communications & Continuing Education Committee. Jonathan Colby, along with Mr. Biery and Manyphay Viengkham, worked together to develop a presentation focused on ways to address the problem of too few IEC applications being submitted for the IEC YP Workshop at the General Meeting. A variety of suggestions were made including messaging on ANSI’s webpages, maintaining communications with former YPs as well as their employers, and keeping this topic on all three USNC management meeting agendas (**ACTION ITEM #4**). Members were encouraged to “look around the room” and realize that the most fertile ground for finding candidates was among the USNC’s member organizations. A question was asked by one of the YP’s regarding whether or not there are funds allocated in the USNC’s budget for domestic YP activities to which the answer is, yes.

Section 10 – Summary of Votes

1. To approve the Consent Agenda (USNC/TMC 892A)

(This motion was approved unanimously.)

2. **To approve the Balance of the Agenda (USNC/TMC 892A)**
(This motion was approved unanimously.)
3. **To recommend to USNC Council that rules for USNC Management Committee membership remain the same.**
(This motion was approved unanimously.)
4. **To reappoint Mark Early as the USNC Representative to the IEC SMB Advisory Committee on Safety.**
(This motion was approved unanimously.)
5. **To Approve the Report and Disband the TMC Task Force on National Adoptions.**
(This motion was approved unanimously.)

Section 11 – Summary of Action Items

Action Item #1 USNC Office

Mr. Earley recommended that his fellow US colleague on ACOS, Larry Farr, should be removed from this and all committees as he is now retired.

Action Item #2 A. McMillan

The TMC agreed that a small task force be formed to investigate the variety of IT applications available that could be used by the Committee to access, review and provide input on documents presented before the different CC's and VTAGs.

Action Item #3 USNC Office

There was a recommendation from the TMC that perhaps the USNC should add a section on the HoD report form so that our US delegations can add any questions or comments regarding the ISO/IEC Directives and IEC Supplement.

Action Item #4 Chairs, USNC Council, TMC, CAPCC

Ensuring that the issue of USNC participation in the IEC Young Professionals Workshop and the development of a national YP-type of program be added to all three USNC management meeting agendas.

Section 12 Adjournment

Mr. McMillan thanked Paul Hearty, Suzanne DeSpain and Sony for their hospitality in hosting the TMC and adjourned the meeting at 4:36 PM (PST).

Respectfully submitted,
Tony Zertuche
General Secretary, USNC/IEC
27 April 2016

