US NATIONAL COMMITTEE/IEC
TECHNICAL MANAGEMENT COMMITTEE (TMC)
Minutes

Underwriters Laboratories, Inc.

Wednesday, 20 May 2015

(Meeting #45)

Members Present

Alec McMillan (Chair)	Member	Rockwell Automation
Ken Gettman (Vice Chair)	Member	NEMA
Ethan Biery	Member	Lutron
Wynn Bowman	Member	Star Associates Int'l (ECC Corp)
Tom Buchal	Member	Intertek
Hae Choe	Member	AAMI
Jodi Haaz	Member	IEEE
Donald Heirman	Member	Don HEIRMAN Consultants
Bob Kretschmann	Member	Rockwell Automation
Veronica A Lancaster,	Member	Consumer Electronics Association
William Lawrence, Jr	Member	FM Approvals
Joseph Musso	Member	UL
Florence Otieno	Member	TIA
Charley Robinson	Member	ISA
Patrick Salas	Member	GE
John Thompson	Member	Underwriters Laboratories
Jeff Waymouth	Member	OSRAM SYLVANIA
Matt Williams	Member	AHAM
Charlie Zegers	USNC General Secretary	ANSI

Tony Zertuche	USNC Deputy General Sec.	ANSI

Guests Participating

Sonya Bird	Council Member	UL
C.P. "Sandy" Butterfield	CAPCC Member	Boulder Wind Power
Bill Colavecchio†*	SG 7 Representative	UL
Tim Duffy	USNC VP-CA	Rockwell Automation
Elaina Finger	Chair, C&CEC	Corning
Brian Fitzgerald	ACSEC Representative	FDA
Ryan Franks†*	SEG 6 Representative	NEMA
Elisabeth M.-v.d.M. George	Council Member	Philips North America
Paul Green	CAPCC Member	Intel
Pamela Gwynn†*	TA, SyC AAL	UL
Megan Hayes	Council Member	NEMA
Carol Herman	Council Member	AAMI
Joseph Koepfinger†*	USNC Rep ACTAD	JL Koepfinger PE Consulting
Kevin Lippert	USNC VP, Membership Dev	Eaton
Dan Manole†*	USNC Rep, ACEE	Rockwell Automation
Steve Margis	Vice Chair, CAPCC	UL
Jim Marquedant	Council Member	FM Approvals
Evans Massey	CAPCC Member	Baldor Electric Co.
James E. Matthews	IEC VP/SMB Chair	Corning Incorporated
Timothy McNeive	Council Member	Thomas & Betts
Edward Mikoski, Jr.	Council Member	ECIA
Paul Moliski	Council Member	Intertek
Dennis Oddsen	Council Member	Hubbell, Inc.
Greg Orloff	Council Member	CSA Group
Brian Patterson†*	SEG 4 Representative	Emerge Alliance
Philip Piqueira	USNC President	UL
Gary Rackliffe†*	USNC Rep, SMB SEG 2	ABB Inc.
Steven Rood	Council Member	Legrand/Pass & Seymour
Jan-Henrik Tiederman	IEC Workshop Facilitator	IEC Central Office
Manyphay Viengkham†*	SEG 1 Representative	GE
Robert Williams	USNC VP – Finance	UL
Mike Woodford	CAPCC Member	AHRI

Jianchao Zeng, Ph.D.	Council Member	FDA

Members Not Participating

Bill Fiske	Member	Intertek
Calvin Luong	Member	CSA Group
Steve Swanson	Member	Corning

* = Via Teleconference
† = Part Time

Section 1 – Organizational Matters

1.1 Welcome, Introductions and Opening Remarks

Alec McMillan called the meeting to order at 9:00 a.m. (EDT) and welcomed everyone to UL's offices in RTP, North Carolina. He gave a special welcome to the TMC's newest members: Ethan Biery of Lutron and Tom Buchal of Intertek.

1.2 Approval of Agenda (USNC/TMC 869A)

1.2.1 Approval of Consent Agenda

Mr. McMillan called attention to the Consent Agenda (USNC/TMC 869A) 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 869A)**
>   (This motion was approved unanimously.)

1.2.2 Approval of Balance of the Agenda (USNC/TMC 869A)

Mr. McMillan invited any additions or changes to the balance of the agenda and one was suggested regarding the correct title for Jodi Haasz as the Convenor of the USNC Task Force on Adoptions as opposed to Vice Convenor. After this change, approval of the Agenda was moved, seconded and

> **VOTED #2   To approve the Balance of the Agenda (USNC/TMC 869A)**
>   (This motion was approved unanimously.)

Section 2 - Status of Outstanding Action Items

Action Item #1

The USNC Task Force (TF) on Adoptions recommends that the USNC request IEC to make the information contained in their adoptions database available to a broader constituency. This exposure may lead to national committees receiving additional information that can be populated in the database on the adoption/use of IEC standards.

Status:
Pending

Action Item #2

It was decided that the TMC Subcommittee on TAG Operating Procedures would add the USNC process for the IEC's In Some Countries clause to their agenda for review and possible revision or omission from the USNC's procedures.

Status:
Completed

Action Item #3
The Task Group on Improving the IEC Balloting Process will finalize a document for TMC approval so that it could eventually be submitted to the SMB Chairman's Advisory Group (CAG) for further discussion.

Status:
Pending

Action Item #4
Sonya Bird asked that any other proposals for the TMC Subcommittee on TAG Operating Procedures be submitted by 1 April 2015.

Status:
Completed

Action Item #5
Gene Eckhart expressed his desire to increase US engagement in these TCs and suggested that the USNC work to coordinate with the COPANT TCs so that their meetings might be held in conjunction with the COPANT General Assembly or annual FINCA Meeting.

Status:
Completed

Section 3 – Update on CENELEC Co-operation – Dresden Agreement
Mr. Zertuche led a discussion on the current status of the Dresden Agreement as it relates to USNC Members. The TMC was asked about what next steps should be pursued, if any, and if further discussion is warranted between the USNC and CENELEC. One of the suggestions made was to pursue a response from the CENELEC leadership on the USNC's request to develop some kind of guidance document to accompany the Dresden Agreement. This would be similar to the document on the ISO side that supplements the Vienna Agreement. There was general consensus that more persistence is needed when dealing with all issues pertaining to the Dresden Agreement. Mr. Zertuche informed the TMC that during the negotiations between the USNC and CENELEC, European leadership advised the USNC Officers that any instances whereby US participants felt that a violation of the Dresden Agreement had occurred should be reported immediately to the office of Elena Santiago, Director General of CEN and CENELEC for review.

USNC Representative to ACEA, Dan Manole, called into the discussion to outline one related example that concerned alleged CEN overlap with ACEA which seem to include a lack of communication. As a result of the discussions, Mr. Manole was asked to develop and submit some wording on the issue for submission by the USNC Office to CEN/CENELEC for their review **(ACTION ITEM #1).**

Section 4 – Report from USNC Task Force on Adoptions
Convenor, Jodi Haasz, briefed the TMC on the work being accomplished by her Task Force dealing with the IEC database on adoptions as well as the national adoption process within the USNC. She reported that the TF had met recently to reach decisions on "cleaning up" and streamlining the USNC's procedures for national adoption and to request that the IEC broaden the availability of the IEC Database to more than the current restricted membership. Further to this point, the TF will be developing a proposal for submission to the IEC for the future structure and availability of the ISO/IEC adoptions database and asked that USNC President, Phil Piqueira, inquire with the IEC Central Office if their database would be opened to a broader constituency **(ACTION ITEM #2).**

There was also a renewed call to capture and publish more information on the use of and reference to IEC Standards that are not officially adopted. This would be extremely helpful to both US and international organizations because it would give reviewers a more complete picture of American usage of IEC Standards. It was suggested that the USNC may not be the only National Committee requesting broader access.

Section 5 – Standardization Management Board (SMB) Issues – SMB meeting 153 in Geneva on 2015-06-16

5.1   SMB Systems Committee (SyC) Smart Energy
Gary Rackliffe called in to report on the new Systems Committee – SyC Smart Energy. He indicated that a US TAG is currently being established with NEMA as the TAG Administrator, and Gene Eckhart as TAG Secretary. Mr. Rackliffe's submitted assessment (**ATTACHMENT A**) contained the following issues:

- Peter Lanctot, Secretary of SyC Smart Energy, distributed document SyC Smart Energy/3/AC to the National Committees providing general Information to register for the upcoming meeting of IEC SyC Smart Energy in Beijing.
- A questionnaire (USNC 1460 form) regarding the composition of the U.S. delegation has been distributed
- A Technical Advisor for the TAG still needs to be identified and approved
- The identification of the US Delegation to the plenary meeting in Beijing

5.2   SMB SyC Active Assisted Living (AAL)
Pam Gwynn called into the TMC Meeting to highlight some issues from her submitted report which centered on the first meeting of Systems Committee AAL that took place in Frankfurt, Germany in March of 2015. The SyC approved the scope and 14 general tasks for the Committee; some of the tasks include:

- Coordinate the work of existing and future committees related to AAL
- Liaise with the relevant organizations:
- Build a vision and a roadmap based on market needs
- Define common terms and definitions
- Maintain the inventory of existing standards and standardization projects in progress
- Develop reference architectures and models for AAL systems
- Foster the development of conformity assessment tools and methods (aligned with CAB)

SyC-AAL established 4 Working Groups:

- WG1: User Focus (Convener Hirokazu Tanaka, Japan)
- WG2: Architecture and Interoperability (Convener Reiner Wichert, Germany)
- WG3: Quality and Conformity assessment (Convener Michael Kirwan, Continua Alliance)
- WG4: Regulatory matters (Convener Dejun Ma, China)

And 2 Chairman Advisory Groups:

- CAG1 Strategy (Convenor U. Haltrich, Chairman of SyC-AAL)
- CAG2 Coordination (Convenor U. Haltrich, Chairman of SyC-AAL)

Ms. Gwynn outlined a few goals for the US TAG that includes administering an on-line meeting to prepare US positions for the upcoming SyC meeting, looking for interested parties to participate on the Working

Groups, and considering serving as a host for one of the 2016 meetings. The next meeting of the IEC Committee will be in Tokyo, Japan November 16-19 2015.

5.3   SMB Systems Evaluation Groups (SEG) 1 – Smart Cities
Manyphay Viengkham called in to brief the TMC on the ongoing challenges facing the IEC's first SEG. Her submitted report (**ATTACHMENT B**) contained the following issues:

- Overall lack of strategic approach and direction
- Lack of objectives, boundaries, scope and relevancy
- Lack of complex system/system of systems experience
- Terminology and semantic confusion
- Positive energy and collaboration

Ms. Viengkham then reported on the administering of the SEG 1 VTAG via the LinkedIn social website. Both she and Mr. Zertuche informed the TMC that a good deal was learned from the trial. One of the positives from the experience was the broad visibility of the VTAG and its work. The initial requests to join were strong. However, when these prospective members were asked to submit credentials as is asked by all USNC TAG and VTAG members, the candidates withdrew. This was mainly attributed to a general wariness of providing too much personal information over the internet.

Some suggestions given to administer the LinkedIn VTAG included:

- Implementing a series of filtering questions to gain access, i.e. who are you representing?
- Use the LinkedIn Group as a means to attract interested parties to a more traditional VTAG
- Keep trying

5.4   SMB SEG 4 Low Voltage Direct Current (LVDC) Applications, Distribution and Safety for use in Developed and Developing Economies
Brian Patterson of EMerge Alliance is the USNC Representative of SEG 4 and called in to report on the Group which met the day before the TMC Meeting. The Meeting was held at the LVDC Data Center in Princeton, NJ and enjoyed a large attendance with 45 members and invited guests present.
Mr. Patterson informed the TMC that there are now around 100 VTAG members with the roster being submitted to the USNC Office soon. There are 6 total subgroups in SEG 4 and it is expected that the US will be able to populate all of them. The next meeting will be held in New Delhi in October 2015. A major question in the utilities arena has to do with how a changeover from AC to DC can be accomplished. Mr. Patterson indicated that there will not be a wholesale takeover of AC by DC; however, there will be hybrid applications. He also indicated that he may reach out to Ryan Franks of NEMA who is the USNC Representative to SEG 6 (Microgrids). Regarding the strong membership numbers for the VTAG, it was suggested that perhaps the VTAG for SEG 4 could serve as a model for drawing interest from relevant individuals and organizations and then using that foundation in recruiting.

5.5   SMB SEG 5 Electrotechnology for mobility
There has still been no interest from the USNC constituency in terms of finding a Representative. Furthermore, it appears that the SMB has been finding it difficult to find a Chair for the Group. The current situation for SEG 5 is still unclear as different options are being suggested including folding the work into another SMB group or even disbandment.

5.6   SMB SEG 6 Non-traditional Distribution Networks / Microgrids
Ryan Franks submitted his report (**ATTACHMENT C**) and called in to answer any questions by the TMC. The main issues addressed had to do with the establishment of the SEG:

Scope - Assess aspects of non-traditional distribution networks for applications such as:

- Rural and developing markets that serve potential huge market needs (notably in Asian and Africa) including networks that may be connected in the future to a traditional/interconnected grid.
- Facility or campus grids capable of operating in an isolated mode with respect to a large interconnected grid.

The Convener and Secretary of SEG 6 have proposed the following structure to conduct research on the market status, typical use cases, standards demand, standards status and perform a standards gap analysis and the following Working Groups were created:

- WG 1: Reliable isolated microgrid
- WG 2: Practical isolated microgrid
- WG 3: Grid-connected microgrid

5.7   Advisory Committee on Electromagnetic Compatibility (ACEC) and US Coordinating Committee on EMC (USCCEMC)
Don Heirman's report (**ATTACHMENT D**) outlined the following current issues:

- Coordination between TC13 and TC22 on EMC Compatibility Levels
- TC reports presented
- Review of TC documents containing EMC
- ACEC workshop in Taiwan at the Asian-Pacific EMC Symposium, 26-29 May 2015
- ACEC Young Professionals Program Fully Active
- Coordination with Groups that deal with EMC outside of the IEC
- ACEC presentation to SMB

During discussion, Mr. Heirman emphasized the importance of contacting ACEC before developing any standards that deal with EMC in any way. The next ACEC meeting will be held near the IEC office in the Boston area on 17-18 November 2015. The IEC Central Office is facilitating arrangements. The TMC was asked to endorse this meeting since no financial cost would be attributed to the USNC, which it did.

5.8   Advisory Committee on Environmental Aspects (ACEA) and USNC Coordinating Committee on Natural Environmental Aspects (USCCENV)
Dan Manole provided as (**ATTACHMENT E**) his report and highlighted the following:

- The development of a database of standards using environmental terms.
- The setting up of a Platform consisting of representatives from ISO TC207 SC1, ITU-T SG5, ISO/IEC JTC1 SC39 and IEC ACEA to exchange information regarding standardization initiatives in the environmental area. A comment to this item was made that IEC/TC 111 should be visibly included in the list of representatives to this group.
- A CEN working group has started working on an "EU standardization roadmap on regulated substances in articles". The issue being that they do not want to include in the roadmap any IEC standards (the IEC standards have been included and thereafter removed from the roadmap's list of references). ACEA will monitor the activity and determine the scope of the roadmap. It may be that this is only a roadmap of EU standards.

ACEA will report to SMB Meeting 155 in February 2016.

5.9   Advisory Committee on Energy Efficiency (ACEE) and USNC Coordinating Committee on Energy Efficiency (USCCEE)
Mr. Manole also reported on ACEE (**ATTACHMENT F**) and highlighted the following initiatives:

1. ACEE has been working to develop a database of standards addressing energy efficiency aspects
2. ACEE Strategic Group1 has compiled a list of IEC activities that address energy efficiency
3. Two Guides are under development that are meant to provide approaches for querying the database:
   - Sorting by the addressed energy efficiency aspect (Task Team 1): e.g. energy management, metering, or testing;
   - Sorting by the generality of the scope (Task Team 2): basic, product, group.

Also, Mr. Manole informed the TMC that the USCCEE held its first WebEx conference. ACEE is one of the Advisory Committees that will be reporting to the SMB Meeting in June (along with ACOS) and the USNC Office was asked to circulate the ACEE and ACOS Reports to the TMC for further review (**ACTION ITEM #3**).

A comment was made that indicated that the Conformity Assessment community would like to have harmonized limits from the Guides on EE Standards. This triggered a larger discussion on the nature of the IEC and ISO Guides as to whether they are meant to be normative or informative. A few felt that the Guides have become more and more normative of late which has become disconcerting for some. It was agreed that the name "guides" for these documents is a bit of a misnomer as the Guides can contain normative statements, especially when dealing with health and safety.

5.10   Advisory Committee on Safety (ACOS) and US Safety Coordinating Committee (USSCC)
Mark Earley, the current USNC Representative to ACOS, sent in a report but could not participate. Some items of potential interest to the TMC include:

- Revision of IEC Guide 116 Ed. 1 (2010), Guidelines for safety related risk assessment and risk reduction for low voltage equipment
- Status report on techniques for event-based risk analysis
- The inclusion of security provisions in standards

It was noted that the USNC may need to find a new ACOS Representative as Mr. Earley would like to share the responsibility for this very active Advisory Committee. Larry Farr is the IEC/TC 17 Representative but is out at end of his term and will most likely not continue. Tom Blewitt as the IEC/TC 61 Representative was identified as a possible candidate and will be asked to consider the possibility of appointment (**ACTION ITEM #4**).

5.11   Advisory Committee on Electricity Transmission and Distribution (ACTAD) and US Coordinating Committee on Electricity Transmission and Distribution (USCCTAD)
Joe Koepfinger called in to give his final report on ACTAD's activities before he transfers US representation to Mark McGranaghan of EPRI. It appears that a review of the current membership of the USCCTAD is needed with perhaps a reaffirmation from those members indicating their willingness to continue in the Committee. Both Mr. Koepfinger and the TMC feel that it is imperative that the USNC Representative maintain strong communications and coordination with the US mirror group to ACTAD. This is especially important now as many countries, particularly in Asia, are looking to map out their respective futures in electricity transmission and distribution far into the next years and even decades. There was also a suggestion that the US begin forming some kind of North/South American T&D alliance in the future. He noted that China is looking to develop a similar kind of alliance by building a very large Pacific infrastructure to span the region using underwater cables.

It was mutually agreed that the manufacturing and utilities industries in the US need to become much more involved. Mr. Koepfinger strongly recommended that relevant organizations like NERC, FERC, NEMA, US DoE, etc. need to come together and begin mapping out the future of T&D in the US as there is no real national energy policy currently in place. He recommended that the USNC do more outreach with industry and, more importantly, with the various utilities to develop some kind of American strategy. One

recommended organization Mr. Koepfinger identified as a possible starting point is the Utility Variable-Generation Integration Group (UVIG) which lists many electrical power corporations and utilities as members (**ACTION ITEM #5**). UVIG is also the newly appointed US TAG Administrator for IEC/TC 8 *Systems Aspects for Electrical Energy Supply* and SC 8A *Grid of Large-Capacity Renewable Energy Generation.*

5.12   Advisory Committee on Security (ACSEC)
Brian Fitzgerald submitted a report on the newly established ACSEC whose first meeting was held in Geneva on 22 May 2015. As this Committee has just begun to develop, the issues at hand are dealing with establishing the structure and organization of the group, which includes:

- Terms of reference and membership
- Work program
- Procedures
- Liaison opportunities

5.13   SMB Strategic Group #7 – Electrotechnical Applications of Robot Technologies
Bill Colavecchio called in to discuss SG 7's final report to the SMB. The Group's major recommendation to the SMB was to eventually create a "joint" advisory group between IEC and ISO as there is simply too much overlap and interchanging technologies involved with robotics today. There was a good makeup of participants in the SG and consensus was reached. The most contentious point was trying to limit the recommendations to just the IEC because current and future technologies definitely touch both ISO and IEC. There was a question regarding why the recommendation was for an Advisory Group when robots seem so specific a technology. Mr. Colavecchio replied that SG 7's technology area was divided into two buckets:

1. Robots (autonomous)
2. Robotic Technologies (non-autonomous) – these show up in numerous products and operations

Another question arose that had to do with why there could not be two separate groups, one each within ISO and IEC. Mr. Colavecchio responded that SEG 7 felt that their task was to make the best recommendation to the SMB, fully aware that the IEC has the final authority to establish its groups as it sees fit. The problem many in the TMC pointed to in the official recommendation was actually the wording as it is stated in such a way that seems to only allow for a joint group to be formed. However, ultimately, all agreed that some kind of IEC advisory group is needed.

5.14   SMB Strategic Group #8 / Industry 4.0 / Smart Manufacturing
Mr. McMillan updated the Committee on the Strategic Group on Smart Manufacturing. He informed the TMC that SG 8 is looking to somehow take the Smart Grid architecture model/tool and apply it to Smart Manufacturing. Two of the major focuses in this new field is the search for solutions in the manufacturing space includes the design the factory and development of the supply chain. The final report to the SMB from SG 8 is due in June of 2016. They will most likely be recommending a Systems group be formed that would liaison with IEEE, ISO, JTC1, as well as others. Finally, Mr. McMillan announced that the Strategic Group is also looking into developing a proposal to acquire its own radio or spectrum frequency.

5.15   IEC Directives Maintenance Team
Mr. Zertuche reported on the current workload of the DMT which has not changed since the last report to the TMC. As indicated earlier, the SMB approved recommendations from the last DMT Report:

- Text changes for Annex SP of the IEC Supplement to the ISO/IEC Directives, Part 1
- Amended text for Annex E of the IEC Supplement to the ISO/IEC Directives, Part 1
- Amendment to subclause 2.3.4 of the IEC Supplement to the ISO/IEC Directives, Part 1

The DMT will review the SMB voting result of the above recommendations and the associated comments in view of publishing a new edition of the IEC Supplement (Edition 9) by the end of April 2015. The next DMT meeting will be held at SAB, Pretoria, South Africa on 3 December 2015 which will follow the ISO/IEC JDMT Meeting to be held on 2 December at the same location.

Secretary's Note: The next DMT meeting will actually be held in Kista, Sweden, at the offices of the Swedish NC, from 24 to 25 August 2015. The IEC DMT will meet again in Pretoria in December in conjunction with the JDMT Meetings there.

5.16   Report of SMB Ad Hoc Groups
Mr. Matthews briefed the TMC on the current status of the SMB's ad hoc groups:

- **AhG 55 Needs of the telecommunications sector in IEC –** Recommendation to the SMB that a Strategic Group be formed. The USNC will need to find a representative for this SG.
- **AhG 56 Wearable Smart Devices –** The ahG is calling for the formation of an Advisory Committee and the USNC TMC supported this proposal.
- **AhG 57 Composition of SGs and ACs –** One of the main issues this ahG is facing is soft vs. hard limits on the number of members in these groups – the recommended limit went from 16 to 20 people. Many on the TMC saw no harm in having increased interest in these groups even though an argument could be made that too many members might affect maintaining an appropriate balance of representation. However, all agreed that the groups can and should be strict with attendance and participation.
- **AhG 58 Project Management** – This Group is looking to have a project management program in place for all TCs. A question was asked about whether or not the IEC Guides will be incorporated into the project management process. The answer was yes.

At the end of this section, a discussion took place regarding the enforcement of IEC rules and procedures. It was felt that some Chairs and Secretaries might be reluctant to impose any kind of sanctions on those P-Members who do not actively participate in the Committees on a regular basis. This reluctance of enforcement could be triggered by a variety of political or industrial reasons. Therefore, the TMC asked that the USNC Members to the SMB propose that the IEC Technical Officers assume the responsibility for enforcing the rules independent of the Committee Secretary or Chair (**ACTION ITEM #6**).

5.17   Consideration of USNC Positions for the 16 June 2015 SMB Meeting 153 in Geneva
Each issue not addressed elsewhere in the agenda was reviewed to help determine appropriate USNC positions.
- WG/PT activities – The TMC agreed with the IEC's goal of taking action for disbanding WGs and PTs where appropriate if they fail to provide an explanation for having no active projects in the committee's work program.
- Vice Chairs – TMC agreed to continue the policy
- Remote participation – TMC is in favor of extending the pilot program for one more year
- Committee Drafts JCGM 100:201X (ISO/IEC Guide 98-3), Evaluation of measurement data — Guide to uncertainty in measurement The USNC recommend that if the JCGM wishes to provide standards using this method they should present them as supplements to the existing JCGM 100 for use as optional procedures.
- TC 65 Report to the SMB – The TMC agreed that all comments from SMB/5510A/CC should be addressed

There was also a brief discussion on ITU challenges, specifically dealing with coordination of work programs and communication.

5.18   Improving IEC Balloting Process
Mr. McMillan reported on the inability for his Task Force to meet. A new email invitation will be sent out to the TF on Improving the IEC Balloting Process to coordinate schedules to set up a meeting (**ACTION ITEM #7**).

Section 6 – Management and Communication Items
6.1   Reports from TAs/Secretaries in Attendance
Sandy Butterfield gave an overview of the Utility Variable-Generation Integration Group (UVIG), IEC/TC 8 & SC 8A and the corresponding new US TAGs (**ATTACHMENT G**).   Some highlights include:

- SMB placing SC8A under TC8 but leaving some scope conflicts unresolved
- USNC declined to join SC8A as P member due to lack of TAG
- NREL relinquished TC8 TAG administration (Dec. 2014)
- Call for new TC8 & SC8A TAG Administrator: UVIG volunteered
- Establishment of US P-membership in SC8A and organization of TC8 & SC8A TAG
- Nomination of US experts to SC8A/AHG1
- SC8A chairman likely to step down. US may try to nominate new chair

6.2   Group Manager Assignments & Responsibilities
Mr. Zertuche unveiled the new GM Assignments and assured the TMC that the revised GM Roles and Responsibilities document would be distributed soon (**ACTION ITEM #8**).

6.3   TMC Subcommittee on TAG Operating Procedures
Ms. Bird updated the TMC on the Subcommittee informing the Membership that she will schedule a new meeting later this summer to address various issues now on the table for the group including: the In Some Countries Clause, Anti-trust policy, international participation, etc. The group will also be looking to validate any new TAG procedures.

6.4   Call for TAs, IEC Secretaries, TAG Secretaries and USNC Non-Memberships
Mr. Zertuche outlined the various USNC/IEC positions that need to be filled for upcoming terms as well as opportunities for new USNC membership in various TCs/SCs.

6.5   Nominations for USNC TMC Vice-Chair
A call will go out to the TMC for candidates for the position of USNC TMC Vice-Chair (**ACTION ITEM #9**).

Section 7 - Technical and/or Policy Issues for Consideration
7.1   COPANT TC 151 & TC 152
Mr. Eckhart attempted to phone in to report but was unable to due to connection issues.

7.2   IEC Leadership Elections
The TMC took note of the following IEC SMB election items:

The term of office of one Automatically Appointed Members of the SMB will come to an end on 31 December 2015. She is:

- Ms. Dai Hong (China)

Ms. Dai Hong is serving her second term of office and as a result is not eligible to be re-nominated. The Chinese NC will therefore nominate a new candidate, in accordance with the Rules of Procedure.

The terms of office of two elected members of the Standardization Management Board (SMB) will expire on 31 December 2015. They are:

- Mr. Kim Craig (Australia)
- Mr. Svante Skeppstedt (Sweden)

Mr. Craig will have completed his first term and is therefore eligible to stand for re-election for one further term (2016-2018). Mr. Skeppstedt, who will have completed two terms, is not eligible for reelection.

The USNC has been informed that various National Committees will be nominating candidates for the upcoming SMB Elections to be held at the IEC GM in Minsk. The candidates this year will be vying for only two available SMB seats. After all SMB candidates have been announced, the TMC will make its recommendations to USNC President, Phil Piqueira at the USNC Council Meeting at AAMI in September 2015.

Section 8 – Forum of the IEC National Committees of the Americas Meeting (FINCA)
Mr. Piqueira briefed the TMC on the current FINCA activities. Some of the initiatives underway include:

- Review of the COPANT/FINCA MOU including development of an implementation program
- IEC LARC's endeavor to see more Affiliate countries involved in the IEC
- Development of COPANT's 2016-2020 Strategic Plan
- Meeting of the Working Group responsible for the revision of the FINCA Terms of Reference
- The proposal for the FINCA newsletter which the IEC has agreed to finance for the next two years

The TMC was again reminded that a workshop is being planned in accordance with the USNC's Mentoring Program with Chile.

Section 9 - Future Meeting Dates
The following meeting dates for 2015 and beyond are:

CAB Meeting
15 June 2015
Geneva

SMB Meeting
16 June 2015
Geneva

CAPCC/TMC/Council Meetings
22-24 September 2015
AAMI, Arlington, VA

7th USNC TAG Leadership Workshop
Friday, 25 September 2015
AAMI, Arlington, VA

79th IEC General Meeting
Minsk, Belarus
12 – 16 October 2015
(Technical meetings 5 to 16 October 2015)
- SMB/CAB   Monday, 12 October
- CB   Wednesday, 14 October

- Council Friday, 16 October

<u>**2016**</u>
Tuesday, 23 February 2016 (Tentative)
SMB Meeting, Geneva

Monday, 13 June 2016
CAB Meeting, Geneva

Tuesday, 14 June 2016 (Tentative)
SMB Meeting, Geneva

80th IEC General Meeting
Frankfurt, Germany
- SMB/CAB Monday, 10 October
- CB Wednesday, 12 October
- Council Friday, 14 October

<u>**2022**</u>
86th IEC General Meeting
USNC Expression of Intent Submitted to and accepted by IEC Council.

<u>**Section 10 – Summary of Action Items from 2015-05-20**</u>

Action Item #1   **D Manole**
Mr. Manole was asked to develop some wording on the perceived issue of a violation of the Dresden Agreement for submission by the USNC Office to CEN/CENELEC for their review.

Action Item #2   **TF on Adoptions**
The USNC TMC TF on Adoptions will be developing a proposal for submission to the IEC for the future structure and availability of the ISO/IEC adoptions database and asked that USNC President, Phil Piqueira, inquire with the IEC Central Office if their database would be opened to a broader constituency.

Action Item #3   **USNC Office**
The USNC Office was asked to circulate the ACEE and ACOS SMB Reports to the TMC for further review.

Action Item #4   **USNC Office**
Tom Blewitt as the IEC/TC 61 Representative was identified as a possible candidate and will be asked to consider the possibility of appointment.

Action Item #5   **USNC Office**
Joe Koepfinger recommended that the USNC do more outreach with the various utilities to develop some kind of American strategy starting with the Utility Variable-Generation Integration Group (UVIG) which lists many electrical power corporations and utilities as members.

Action Item #6   **A McMillan/T Zertuche**
Therefore, the TMC asked that the USNC Members to the SMB propose that the IEC Technical Officers assume the responsibility for enforcing the rules independent of the Committee Secretary or Chair.

Action Item #7   **A McMillan**
A new email invitation will be sent out to the TF on Improving the IEC Balloting Process to coordinate schedules to set up a meeting.

Action Item #8   **USNC Office**
The revised GM Roles and Responsibilities document would be distributed soon to the TMC.

Action Item #9   **USNC Office**
A call will go out to the TMC for candidates for the position of USNC TMC Vice-Chair.

<u>Section 11 – Adjournment</u>
Alec McMillan thanked all the participants and UL for hosting the meeting which was adjourned at 4:04 PM EDT.

Respectfully submitted:
Tony Zertuche
Deputy General Secretary USNC
30 June 2015