



**USNC TECHNICAL MANAGEMENT COMMITTEE
DRAFT MEETING MINUTES**

**Tuesday, May 20, 2025
9:00 – 3:00 PM (CT)
(Meeting #75)**

Hosted by UL Standards & Engagement

**1603 Orrington Dr, Suite 2000
Floor 17 – Banneker/Herschel/Volta
Evanston, IL 60201**

TMC Members in Attendance

Hae Choe, USNC VP – Technical	NEMA
Dave Osborn, TMC Vice Chair*	Philips
Muhammad Ali*	INCITS
David Anderson*	FM Approvals
Zekarias Bekele*	CSA
Ladan Bulookbashi	AAMI
Jonathan Colby*	Streamwise Development
Valara Davis	UL Standards & Engagement
Thomas Domitrovich	Eaton
Michael Dunaway*	NIST
Vincent Ferretti*	Corning
Brent Hartman	CSA Group
Emily Hoefler*	NEMA
John Park*	AHAM
Rui Peng*	FDA
Edward Picton*	Legrand
Cheryl Thibideau*	TIA
Wallie Zoller	Rockwell Automation
Veronica Lancaster, USNC President	CTA
Pete Pondillo, USNC VP – Finance	Corning
Joan Sterling, USNC VP – Conformity Assessment	NEMA
Steve Margis, IEC VP – Conformity Assessment	UL Solutions
Ade Gladstein, USNC General Secretary	USNC/ANSI

TMC Members Not Participating

Lynn Barra	INCITS
Ethan Biery	Lutron Electronics
Wynn Bowman	ECIA
Brian Doherty	NEMA
Robert Paxman	Intel

Kevin Wolf

Intertek

Guests In Attendance

Michael Atlas*

Qualcomm

Gabriel Alsenas*

FAU

Sonya Bird

UL Standards & Engagement

Ron Borowski

Eaton

Randy Cooper

AHAM

Bruce Desmond*

Phoenix Contact

Mariah Dixon

UL Standards & Engagement

Tim Duffy

Rockwell Automation

Paul Green

Honorary Life Member

Connor Grubbs*

NEMA

Megan Hayes*

NEMA

Timothy Jefferies

Futurewei

George Kelly*

ARESCA

Scott Kiddle*

ABB

Bill Lawrence*

Honorary Life Member

Mike Leibowitz

NEMA

Laura Lindsay

INCITS

Kevin Lippert

UL Standards & Engagement

Lia Manukyan

CTA

Khaled Masri*

NEMA

Joseph McGuire*

Legrand

Ed Mikoski

ECIA

Paul Moliski

Intertek

Amy Phelps*

NIST

Bob Sherwin*

ARESCA

Joe Tretler

ANSI

Betty Barro*

USNC/ANSI

Mack Connors*

USNC/ANSI

Suhey Estevez

USNC/ANSI

Catherine Pilishvili

USNC/ANSI

**Virtual Participation*

Section 1 – Organizational Matters

1.1 Welcome, Opening Remarks, Introductions

Ms. Hae Choe, TMC Chair, called the meeting to order at 9:03 AM CT. She thanked UL Standards & Engagement for hosting. Two new USNC TMC members were welcomed: Michael Dunaway (NIST) and Emily Hoefer (NEMA). Meeting attendees provided introductions in person and over the phone.

1.2 Approval of the Agenda

Ms. Choe drew attention to the meeting's draft agenda, USNC/TMC 1293A. No additional items were offered. It was moved and seconded.

VOTE #202505-01 To Approve the Agenda (USNC/TMC 1293A)

(This motion was approved unanimously)

1.2.1 Approval of Consent Agenda

Ms. Choe reviewed the consent agenda, including the TMC Minutes from the meeting on 28 January 2025 in Miami, FL. It was moved and seconded.

VOTE #202505-02 To Approve the Minutes (USNC/TMC 1292) From the TMC Meeting held on 28 January 2025

(This motion was approved unanimously)

- a) US Hosted Meetings
US hosted meetings was made available via USNC/TMC 1294.
- b) Report on Appointments/Reappointments
Report on Appointments/Reappointments was made available via USNC/TMC 1295.
- c) USNC TMC Roster
The USNC TMC roster was made available via USNC/TMC 1296. It was noted that Mr. Toby Gillespie is no longer a TMC member as he recently started a new position at the IEC as the CAB Secretary.

1.2.2 Approval of Balance Agenda

Discussion of the CAPCC action item regarding the CEN/CENELEC TC action item regarding SMB issues was added. Discussion on the proposed joint technical committee on digital product passport was also added.

Section 2 – Status of Outstanding Action Items

TMC members had the opportunity to ask any questions they have regarding the resolutions from the 28 January 2025 meeting. The action items were reviewed; no questions were raised.

Section 3 – Standardization Management Board (SMB) Issues

3.1 Review of Decisions from SMB Meeting in February 2025

Ms. Choe reviewed the important decisions taken at the SMB meeting held in February 2025. She highlighted items from the SMB decision list (SMB/8380A/DL), including ongoing ahG 97 activities, ISO/IEC Directives, digital product passport, and the joint technical advisory group (JTAG) on SMART technical governance.

Ms. Choe recognized Mr. Steven Cornish.

3.2 Review of Draft Agenda for SMB Meeting in June 2025

Ms. Choe highlighted the important items on the draft agenda for the June 2025 IEC SMB meeting to be held in Geneva, Switzerland (SMB/8240/DA).

There will be two days of deep dive sessions and one CAG meeting ahead of the SMB meeting. Main topics to be covered in these SMB preparatory meetings include Blue Sky, the IEC Global Impact Fund, digital product passport, and the Italian NP proposing a new technical committee on antennae characterization.

Members discussed the dissolution of SG13 on consortia and the work being moved to the Innovation & New Revenue Generation (I-NRG) group. It was noted that IEC has been trying to define how to work with consortia for a long time and this topic remains to be difficult to standardize as working with consortia varies from organization to organization as well as from sector or project to another sector or another project.

Type 3 patents were discussed. This is a concern in standards development as IEC/ISO and ITU have a patent policy and if the patent holder files the essential, type 3 patent for a particular standard, this can hold up the standards publication process and may even cancel a standard from being published, if the patent agreement has not been reached. The IEC committee working on a specific standard often will try and get legal advice, but the IEC legal team will refer to the patent policy and sends these issues back to the technical committee. A member shared their experience of working through patents in standards which has taken several years and is not yet resolved. Clear guidance from the IEC on how to handle patents in standards would be helpful. Ms. Choe to request additional/follow up discussion from SMB on how to handle the patent type 3 issue (**ACTION ITEM #202505-01**).

Section 4 – IEC SMB Reports

4.1 SG 12 – Digital Transformation and Systems Approach

Ms. Choe provided an update on SG 12 activities. She noted that the group will likely dissolve at the end of this year. SG 12 has been responsible for all SMART activities in the IEC in the past. However, work of the SG12 will be folded into the new joint group on smart and digital transformation.

4.2 IEC Directives Maintenance Team and Joint Directives Maintenance Team

Ms. Ade Gladstein provided updates on DMT/JDMT activities (USNC/TMC 1303). Mr. Steven Cornish held the ISO/IEC JDMT Chair position and was dedicated to moving the Directives alignment work forward. In light of Mr. Cornish's passing, there is commitment to keep the work moving. Additional meetings were added to the committee's schedule to accommodate this project. The last JDMT meeting was held in April 2025 in Stockholm, Sweden; Ms. Gladstein participated remotely. Ms. Gladstein highlighted a few recommendations that the JDMT is making to SMB and TMB that will have an impact on the IEC:

- There was a change request to align the appointment process for Chairs. JDMT is recommending that Secretariats take on the full responsibility for selecting and nominating Chair candidates for technical committee approval. If the Secretariat is unable to identify a candidate, then there would be a call for nominations for Chair. Secretariats would still be encouraged to consider a candidate from another P-Member.
- JDMT agreed to merge Working Groups, Maintenance Teams, and Project Teams into a single Working Group to handle all tasks. ISO does not have Maintenance Teams or Project Teams, so JDMT decided it would be much simpler to house all of those functions under the Working Group term.

The next virtual JDMT meeting will be held in August 2025. The U.S. is hosting the next JDMT face-to-face meeting in ANSI's New York office in November 2025.

The next JDMT Chair will be confirmed at the upcoming joint SMB/TMB meeting in June 2025.

4.3 JTF AI, SMB/TMB Joint Task Force on Governance of Artificial Intelligence (JTF AI)

Ms. Choe provided an update on JTF AI activities. The last meeting was held on 15 May 2025. This group is currently working on a filming a story board on various ways to use AI and explaining the IEC AI usage guide (**ATTACHMENT A**).

There are a few pilot programs currently running, including one on real-time translations of meetings. There will be a need for language translations in the future.

JTF AI is finalizing their revised draft to present to SMB/TMB at their next joint meeting. Ms. Choe will hear an update on the AI pilot program relating to strategic business plans at the June 2025 SMB/TMB meeting.

4.4 ahG 97 Review of Systems Approach and Systems Committees (SyCs)

Ms. Choe provided updates on ahG 97 activities. The preliminary report was presented in SMB/8421/R. This group will continue to meet to determine how to evaluate workings of the systems committees and to provide guidance to the SMB.

Ms. Choe reminded all USNC TMC members that if they have any concerns in the SyCs that they are involved in, to please contact Ms. Choe and USNC staff.

4.5 ahG 98 Zero Energy Buildings (ZEBs)

Mr. George Kelly provided updates on ahG 98 (**ATTACHMENT B**). This group last met on 5 March and 8 April 2025. Meeting discussions focused on how to achieve ZEB, segmentation and their impact criteria, and next steps. Participants are in the process of reviewing and providing feedback on the draft definition of zero emission building as well as the visual mapping of technologies and services related to zero energy/emission buildings.

Section 5 – IEC Committee Reports

U.S. Representatives to IEC Committees have been invited to provide written reports.

- **SyC Smart Manufacturing**

Mr. Wallie Zoller provided a written (USNC/TMC 1297) and verbal report on SyC SM activities. He noted that this is an underproductive group and that it appears the German Chair seems satisfied to remain in the status quo.

- **SG 14 All Electric and Connected Society**

Mr. Khaled Masri provided an update on SEG 16 activities (USNC/TMC 1298). The scope and background information of this group were reviewed. SEG 16 last met virtually on 17 March 2025 and discussed: updated draft of “call for nominations;” timeline for finalizing the SMB report; uploading the mapping matrix and its accompanying description document to the IEC website; progress on the development of the open collaboration platform; and planning for upcoming meetings. No issues were flagged for TMC/SMB’s action.

- **SEG 15 Joint SEG with ISO – Metaverse**

Mr. Muhammad Ali proved an update on SEG 15 activities (USNC/TMC 1299). He noted SEG 15’s final recommendations, highlighting the recommendation to create a Joint Systems

Committee on the Metaverse. The title and scope have already been drafted for consideration. USNC policy committee members expressed concerns regarding the JSyC recommendation noting the scope is overly broad.

- **SEG 16 Standardization of Sustainability Technologies**

Mr. Masri provided an update on SEG 16 activities (USNC/TMC 1300). The scope and background information of this group were reviewed. SEG 16 last met on 25 March 2025 in Paris, France. The meeting focused primarily on finalizing the draft SEG 16 report for submission to the SMB, including discussions on the report's structure, key findings, and proposed recommendations. Participants also explored the potential formation of a new group or committee dedicated to sustainability and sustainability technologies. No issues were flagged for TMC/SMB's action.

Reports on the following IEC committees were not submitted; if you wish to receive information on committee activity, please contact the US Representative, or USNC staff.

- ACEA – Youjiang Chen
- ACEC – Sergio Longoria
- ACOS – Bill Fiske
- ACSEC – Frances Cleveland
- SyC AAL – Anthony Ciccarello
- SyC Smart Cities – Howard Choe
- SyC LVDC – Keith Goshia, Brian Patterson
- SyC Smart Energy – Gary Rackliffe
- SG 11 – Bob Sherwin, Eric Franca, Brian Marchionini – no written report was submitted, but this group was discussed.

TMC members had a brief discussion on SG 11, the group that IEC SMB looks to for hot topics. Ms. Choe is currently the co-convenor of SG 11. She noted that this group is a good area to propose new work and that it is a highly strategic group. Members discussed the process for analyzing and prioritizing hot topics. SG 11 will meet next in June 2025 and they intend to select their final three or four hot topics to present to the IEC SMB.

Section 6 – USNC Technical Advisory Group & IEC Technical Committee Updates

6.1 ISO/IEC JTC 3 on Quantum Technologies

Ms. Gladstein provided an update on ISO/IEC JTC 3 quantum technologies and its corresponding TAG. Ms. Gladstein is in regular contact with the JTC 3 TAG officers, who recently shared that U.S. experts actively participate in all of the ahGs and have been building relationships and working closely with experts from other countries.

The USNC TAG is continuing to identify areas for where they can proactively collaborate in JTC 3 work, and are looking for opportunities to take on leadership roles and participate in different areas.

The TAG has been meeting to prepare for the next plenary, which will be held in Tokyo at the end of May 2025 (JTC3/63A/DA). The US has submitted three informational presentations for discussion during the meeting.

On the administrative side of ISO/IEC JTC 3, this group has seen improvements. Members confirmed there have been positive changes to the format of the meetings. However, it was noted that there is still a concern with the number of technical reports.

6.2 Review of US Leadership on IEC TCs/SCs/SyCs & USNC TAGs

Ms. Choe reviewed current US leadership on IEC TCs/SCs/SyCs and USNC TAGs (USNC/TMC 1301). Per the action item from the 28 January 2025 TMC meeting, USNC staff updated this document to include additional tabs for different roles as well as filters.

TMC members were encouraged to review the leadership roles and terms to see if there were anyone they would propose to nominate, and if there are any opportunities for U.S. leadership roles in any other committees members are involved in.

It was suggested to include JTC 1 on this spreadsheet moving forward.

6.3 Concerns/Issues of Importance Raised by USNC TAGs or Experts

This is a standing TMC agenda item as a reminder to share any issues of concern with USNC leadership and with fellow TAG administrators.

TMC members were encouraged to flag any issues to Ms. Choe and staff. It is helpful to discuss with counterparts at SMB meetings to resolve issues. That has worked well in the past.

No issues were raised during the meeting.

6.4 Any other business related to TMC/SMB

- The proposed joint technical committee (JTC) on digital product passport was discussed. A potential overlap issue with this proposal and the work of TC 65 and JTC 1 SC 31 was noted. A TMC member highlighted the need for U.S. aligned positions on ISO and IEC sides going forward. There was a recent coordinated meeting of relevant U.S. stakeholders from ISO and IEC (JTC 1, ISO TC 154, JTC1/SC 31, IEC TC 65) and USNC and AIC leadership to develop U.S. comments for submission to TMB and SMB. Ms. Choe requested a longer discussion on this topic at the upcoming June 2025 SMB meeting. Ms. Choe has connected with Canada, UK and APCF members about this proposal and shared that they all have similar concerns. Comments are due to the IEC SMB by 23 May 2025.
- An action item from the 20 May 2025 USNC CAPCC meeting was discussed. CAPCC recommended to TMC that they incorporate discussion on the CEN/CENELEC JTC 21 relation to ISO/IEC JTC1/SC 42 being turned into observer status, as well as leveraging the Frankfurt Agreements in standardization activities.

It was noted that now ISO/IEC JTC 1/SC 42 has an observer status on CEN/CENELEC JTC 21 which is concerning given duplication and divergence issues. Discussion took place around how USNC can leverage the Frankfurt agreement to ensure work is done in international environment and not regionally to avoid duplication. It was noted that the U.S. is seeing pushback on this; the EU Commission is interested in creating standards without non-EU based

organization, including IEC and ISO. This is an issue to connect with our European counterparts and may be a good topic for upcoming bilateral meetings and the ANSI meeting with ESOs in November 2025.

TMC requests discussions during the upcoming ANSI-ESO meeting as well as with ANSI IPAG to find ways to work with the European Commission's view of using only European developed standards and how that may hamper international standardization. TMC would like to use the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42, where the two groups coordinated and harmonized standards development, but that tie was broken, and ISO/IEC JTC1/SC 42 is no longer allowed to participate in CEN/CENELEC JTC 21 (**ACTION ITEM #202505-02**).

TMC members requested that Ms. Choe raise the European standards development issue at the June SMB/TMB meeting, using the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42 (**ACTION ITEM #202505-03**).

TMC recommends to USNC Council that USNC raises the European standards development issue during upcoming bilateral meetings, using the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42 (**ACTION ITEM #202505-04**).

Section 7 – Management and Communication Items

7.1 USNC Subcommittee on Operating Procedures

Ms. Valara Davis, Chair, provided an update (USNC/TMC 1302) on the work of the Subcommittee on Operating Procedures (SCOOP).

The first meeting of the OSD subgroup was held in January; this group has had two follow up meetings since to continue working on the OSD Supplement. This document will be uploaded to the USNC Toolbox once it is finalized. SCOOP met in May to review comments received from TAG officers, which has been addressed in the draft USNC Model Operating Procedures (MOP) and OSD Supplement.

Section 8 – Meeting Schedule 2025 and Beyond

Future meeting dates were reviewed.

It was recommended to USNC staff that they include a list of acronyms with the calendar, update the USNC/IEC calendar on ANSI.org and link to that webpage on policy committee agendas moving forward.

Section 9 – Review of Action Items

Ms. Gladstein reviewed the action items captured during the 20 May TMC meeting.

- **ACTION ITEM #202505-01:** Hae Choe to request additional/follow-up discussion from SMB on how TCs can handle the type 3 essential patent issue and where to go for guidance. Note – IEC/ISO/ITU has a patent policy, but committees are asking for further help.
- **ACTION ITEM #202505-02:** TMC requests discussions during the upcoming ANSI-ESO meeting as well as with ANSI IPAG to find ways to work with the European Commission's

view of using only European developed standards and how that may hamper international standardization. TMC would like to use the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42, where the two groups coordinated and harmonized standards development, but that tie was broken, and ISO/IEC JTC1/SC 42 is no longer allowed to participate in CEN/CENELEC JTC 21.

- **ACTION ITEM #202505-03:** Hae Choe to raise the European standards development issue at the June SMB/TMB meeting, using the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42.
- **ACTION ITEM #202505-04:** TMC recommends to USNC Council that USNC raises the European standards development issue during upcoming bilateral meetings, using the case of CEN/CENELEC JTC 21 and ISO/IEC JTC 1/SC 42.

Section 10 – Adjournment

Ms. Choe thanked UL Standards & Engagement for hosting and closed the meeting at 2:43 PM CT.