

**INTERNATIONAL ELECTROTECHNICAL COMMISSION****STANDARDIZATION MANAGEMENT BOARD****SUBJECT**

Decisions and report from SMB meeting 176 held on 2023-02-14 in Jeju (KR)

1. Opening of the meeting

Chair Vimal Mahendru welcomed new SMB members and alternates: Clare Hobern and Mike Wood (AU), Domingo Ávila and Carlos Pérez Munguia (MX), Sundeep Oberoi (IN), Masahide Okamoto (JP), Hae Choe (US). He also welcomed the existing SMB members and alternates, some of whom had switched roles (DE, FR, IT, SE).

Depending on agenda, the following guests were introduced and welcomed for part or whole of the meeting: Kyoichi Uehara (Chair, ACTAD), Hao Hu (Convenor, SEG 13), Ming Li (Co-Convenor, SEG 15), Shoji Taniguchi (Chair, JTC 1/SC 23), Marco Rossi (Secretary, ISO/TMB).

The following IEC Officers attended the meeting: Philippe Metzger (Secretary-General and CEO).

The SMB Chair warmly thanked the Korean NC for hosting the SMB meeting in Jeju and for their gracious hospitality, particularly the sightseeing organized on Sunday prior to the SMB meeting.

2. Adoption of the agenda**SMB Decision 176/1 – Revised SMB agenda**

SMB approved the revised agenda as amended and given in document SMB/7780B/DA.

SMB Decision 176/2 – TC/SC/SyC reports and SBPs

SMB, by consent:

- approved 41 reports, including SBPs, from TC/SC/SyCs, listed in Annex A of the decision list; and
- expressed appreciation to the Chairs and Secretaries of all the TC/SC/SyCs for the reports submitted.

Comments made by SMB members during the comment/approval process have been submitted directly to the TC/SC/SyCs concerned.

3. Actions from previous SMB meetings

A comprehensive list of actions was circulated prior to the meeting.

From the next SMB meeting on, the list of actions will be replaced by a new platform allowing the SMB Secretariat and SMB members to follow up on them in real time.

4. SMB Chair's Advisory Group (CAG)

A virtual CAG session was held on 2023-02-02 with the following agenda items:

- Brief report from SMB self-assessment survey
- Transparency of voting process and results – Committee Chairs
- Cybersecurity for “Operational Technologies” horizontal function
- ISO/TMB Optimized Deliverables project
- Follow up of December 2022 joint SMB/TMB meeting – UK proposal for a new JTC on Quantum Technologies
- Any other business

CAG agenda items that required a decision during the SMB meeting were handled under the corresponding SMB agenda item.

An additional CAG workshop was held in Jeju on 2023-02-13 prior to the SMB meeting. The workshop was geared toward more strategic ideas around SMB's way of working, IEC culture, and emerging strategic considerations. The objective was to create closer alignment to IEC's vision, mission, values, and strategy.

5. Strategic matters

5.1. Ad hoc Groups

5.1.1. ahG 91 IEC Strategic Plan and Operational Plan

SMB thanked Dongfang Li for his update on the activities of ahG 91 on the SMB Operational Plan and noted the ongoing monitoring and review of its various actions. SMB also welcomed the development after each SMB meeting of a dedicated slideset outlining the key decisions and their impact on Committees.

SMB decided to keep ahG 91 alive until SMB meeting 177 in June 2023, at which date its work will be merged into SMB so that monitoring, review, and update of the SMB Operational Plan will be part of the agenda of every SMB meeting.

5.1.2. ahG 95 All-electric and Connected Society

SMB Decision 176/3 – ahG 95 All-electric and Connected Society

SMB thanked Michael Teigeler for reporting on the ongoing work of ahG 95 and noted that the request for an extension to submit the recommendations of ahG 95 had been approved in document SMB/7796A/RV.

SMB therefore looks forward to receiving the final report of ahG 95 for SMB meeting 177 in June 2023.

5.2. Advisory Committees

5.2.1. ACTAD Advisory Committee on Electricity Transmission and Distribution

SMB thanked Kyoichi Uehara for his update on the work of ACTAD and noted with interest the work done and ongoing on handling SF6 free gases, coordinating activities on DC grid related standards with related Committees and CIGRE, and on the maintenance of standards based on the Digital Twin concept.

5.3. Strategic Groups

5.3.1. SG 12 Digital Transformation and Systems Approach

SMB thanked Oliver Hateley for his update on the work of SG 12 and noted the progress being made on the following SMART projects: Standard Information Model (SIM); Application Programme Interface (API); database standards; tagging information in standards; semantic interoperability; joint IEC-ISO terminology; and standard architecture model and digital transformation architecture guide.

SMB was also provided with updates on the following additional SG 12 activities: use case methodology guide; systems approach guide; agile ways of working; and mapping platform.

5.4. Standardization Evaluation Groups

5.4.1. SEG 13 Electrical equipment under extreme climate, environmental and disaster conditions

SMB thanked Hao Hu for his presentation on the work of SEG 13 and noted the various activities undertaken so far by the group, including the questionnaire about the scope and structure of SEG 13 and the draft report outline.

5.4.2. SEG 15 Metaverse

SMB noted that the two Co-Convenors nominated by the Chinese and US NCs had been approved in document SMB/7774A/RV and further thanked Co-Convenor Ming Li for introducing himself and sharing his initial thoughts about SEG 15 with SMB members.

The recommendation from the SPCG to establish an IEC/ISO Joint SEG on Metaverse was discussed as part of the JDMT agenda item.

6. Management of technical work

6.1. Proposals for new fields of technical activity

6.1.1. Proposal from the Austrian NC for a new PC on *Rotating electrical machines for the traction of road vehicles*

SMB Decision 176/4 – Proposal from the Austrian NC for a new PC on *Rotating electrical machines for the traction of road vehicles*

SMB thanked Christian Gabriel for presenting the proposal from the Austrian NC for a new PC on *Rotating electrical machines for the traction of road vehicles*.

Taking into account the comments provided in document SMB/7790A/CC, SMB acknowledged that the Austrian NC had assessed the suitability of existing IEC Committees to take this work on board. While the proposed project would be explicitly excluded from the scopes of TC 2 and TC 69, TC 9 responded that they were not in the position to include this project in their programme of work. When it comes to ISO/TC 22, SMB noted that the TMB Secretariat recommended to establish a liaison should the new PC be established.

Following this assessment, SMB requested the IEC Secretariat to send the proposal for review by the SPCG. The Austrian NC is asked to subsequently consider any input coming from the SPCG before the IEC Secretariat circulates the final proposal for approval by the IEC NCs.

6.1.2. Proposal from the Chinese NC for a new PC on *Cold storage equipment for medical use*

SMB Decision 176/5 – Proposal from the Chinese NC for a new PC on *Cold storage equipment for medical use*

SMB noted that the proposal for a new PC on *Cold storage equipment for medical use* had been approved by the IEC NCs in document SMBNC/35/RV, and set up PC 130 with the following initial scope:

Standardization in the fields of cold storage equipment for storing reagents, medicines, vaccines, biological specimen, etc., in medical practice and medical research.

The work of PC 130 will include terminology, classification, reliability, performance requirements, testing methods, in-service maintenance and monitoring, inspection, and energy efficiency.

Safety aspects are expected to be addressed as joint efforts between PC 130, TC 66, and other related Committees.

SMB assigned the Secretariat of PC 130 to China.

Comments made during the ballot process are referred to PC 130 for resolution at its first meeting.

6.1.3. Proposal from the UK NC for a new ISO/IEC JTC on *Quantum technologies*

SMB Decision 176/7 – Proposal from the UK NC for a new ISO/IEC JTC on *Quantum technologies*

Following the comments gathered in document SMB/7735A/CC and the discussion with ISO/TMB during the joint meeting held on 2022-12-09, the UK NC submitted to both technical boards a revised proposal for a new ISO/IEC JTC on *Quantum technologies* that was further discussed by SMB during its virtual CAG meeting on 2023-02-02.

SMB members voted during the meeting and disapproved (5 Y / 10 N)* the circulation of the revised proposal from the UK NC for ballot by the IEC NCs. *See annex B.

SMB acknowledged the strategic importance of quantum technologies for IEC and ISO and strongly encouraged SEG 14 to speed up its work and provide SMB with an interim report for SMB meeting 177 in June 2023 and with its final recommendations for SMB meeting 178 in October 2023. SMB further encouraged the UK NC to consider alignment of any revised proposal for a JTC on Quantum technologies with the recommendations of SEG 14.

SMB also looks forward with anticipation to the recommendations of the JTF on JTCs.

6.2. Standardization Division

6.2.1. Report from the Standardization Division

SMB Decision 176/8 – Projects under development for more than 5 years

SMB noted the report from the IEC Secretariat's Standardization Division and in particular the list of projects older than 5 years.

SMB recalled ISO/IEC Directives Part 1 Clause 2.1.6 "*The technical management board will cancel all work items which have been on the work programme for more than 5 years and have not reached the approval stage (see 2.7)*" and decided to automatically cancel from now on all projects which have been on the work programme for more than 5 years and have not reached the approval stage.

All projects already older than 5 years and not having reached the approval stage will be cancelled on 30 June 2023.

SMB further requested the IEC Secretariat's Technical Officers to proactively monitor the implementation of this decision and promote best practices on project management to Committee Secretaries.

6.2.2. TCs not submitting reports within 4 weeks of their meetings

SMB Decision 176/9 – TCs not submitting reports within 4 weeks of their meeting

SMB noted that TC 5 (CN), TC 46 (US) and its SCs, TC 90 (JP), TC 103 (JP) and TC 108 (US) had failed to submit their reports (RSMB) on time and invited the NCs holding the secretariats to investigate.

6.3. TC/SC/SyC monitoring and performance improvement

6.3.1. JTC 1/SC 23 *Digitally Recorded Media for Information Interchange and Storage*

SMB thanked Shoji Taniguchi, Chair of JTC 1/SC 23, for his presentation and noted that JTC 1/SC 23 was looking into the following potential standardization topics to resolve storage problems and achieve long-term retention at low cost and low energy consumption: new optical storage medium with higher capacity and lower cost; new volume and file format for higher speed access and effective management; and new hybrid (tiered) storage system for data archival libraries. SMB also noted that JTC 1/SC 23 was looking to expand its expert base for its application domains.

7. Directives

7.1. Directives Maintenance Team (DMT)

SMB Decision 176/10 – Transparency of voting process and results for Committee Chairs

Following the discussion held in the virtual CAG meeting held on 2023-02-02, SMB acknowledged the importance of maintaining transparency of voting results when multiple candidates are nominated for Committee Chair positions.

SMB therefore asked DMT to come up with a proposal to amend the Directives to allow the IEC Secretariat to make the results of ranked ballots of candidates for Committee Chair positions available to the P-members of the concerned Committee and to SMB. DMT was further instructed to be sensitive of the matter of displaying rankings, considering whether it would be appropriate to only show the name of the candidate with most votes, and not disclosing the originators of the votes but rather overall percentages.

DMT was further encouraged to reach out to the JDMT to consider proposing this amendment to both SMB and TMB.

7.2. Joint Directives Maintenance Team (JDMT)

SMB acknowledged that JDMT recommendation A.1 on SEGs and Joint SEGs (in document SMB/7814/RV) had been approved. SMB also noted the recommendation from the SPCG (in document SMB/7833/INF) to establish a Joint IEC/ISO SEG (JSEG) on Metaverse.

Whenever ISO/TMB sends their request to form a JSEG, SMB will be asked to approve this change by correspondence.

8. Relations with other bodies

8.1. IEC Secretariat (SEC) and IEC Board (IB)

SMB thanked Philippe Metzger for providing an update on IEC Secretariat activities and on key agenda items for the upcoming IEC Board meeting, in particular the review of the IEC Strategic Plan and the workshop on Digital Transformation and SMART. He also mentioned that the IEC Board would discuss the request from the Egyptian NC to move the General Meeting location from Sharm-El-Sheik to Cairo (change of location that would require a General Assembly decision).

Philippe Metzger provided a brief feedback on the current financial situation of IEC. While finances are healthy, a downtrend in sales could be observed compared to a year ago. The IEC Secretariat will keep monitoring this situation as well as cases for making standards freely available that have been materializing in several countries. SMB members recalled that the IEC Board has set up a Task Force to look at Long Term Sustainability.

Philippe Metzger also reported on recent engagement with intergovernmental organizations such as COP27, G20 and IRENA. The question of potential gaps in stakeholders outreach was discussed with SMB members. Further efforts were recommended to reach out to standards customers, especially when considering the digitalization of standards and whether IEC provides its customers with relevant products and services. Regulators were also mentioned as a key stakeholder category, and it was suggested to revive the Regulators Forum that was held twice during past General Meetings. Several SMB members insisted on the need to develop a compelling external relations strategy.

It was also discussed whether SMB and the IEC technical community is well equipped to deal with the topic of sustainability, which is one of the pillars of the IEC strategy. SMB members noted that a deep dive session on sustainability will be held during the June 2023 SMB meeting.

Philippe Metzger will take on board the various comments, observations and suggestions provided by SMB members, in particular the recommendation to assess the necessary resources supporting an external relations and sustainability strategy.

8.2. Conformity Assessment Board (CAB)

SMB was provided by a written update from CAB in document SMB/7759/INF.

8.3. Market Strategy Board (MSB)

SMB was provided by a written update from MSB in document SMB/7812/INF.

8.4. ISO Technical Management Board (TMB)

SMB thanked Marco Rossi for updating SMB on ISO and TMB activities, in particular the key performance indicators followed by TMB to monitor the ISO standardization work. SMB also noted the progress being made on the Optimized Deliverables and Committee Strategy Management projects. The SMB Chair and Secretary look forward to attending the upcoming TMB meeting in March 2023.

9. Date and place of next meetings

SMB agreed to move to a three day meeting format in June 2023 (including both CAG and SMB topics from Saturday to Monday). The exact split between CAG and SMB sessions will be further discussed by the SMB leadership and a proposal will be made to SMB members.

Future dates will be confirmed in due time.

2023

2023-06-10 – Saturday CAG meeting (Geneva, CH)

2023-06-11 – Sunday CAG meeting (Geneva, CH)

2023-06-12 – Monday SMB meeting (Geneva, CH)

2023-10-20 – Friday CAG meeting (Sharm-el-Sheik, EG)

2023-10-22 – Sunday SMB meeting (Sharm-el-Sheik, EG)

2024

2024-02-26 – Monday CAG meeting (Sydney, AU)

2024-02-27 – Tuesday SMB meeting (Sydney, AU)

2024-06-17 – Monday CAG meeting (Geneva, CH)

2024-06-18 – Tuesday SMB meeting (Geneva, CH)

2024-10-19 – Saturday CAG meeting (Edinburgh, UK)

2024-10-21 – Monday SMB meeting (Edinburgh, UK)

10. Any other business

10.1. European Commission standardization matters

The SMB Secretary informed SMB members that the next meeting of the brainstorming group of IEC/ISO/CEN/CENELEC/European Commission on the topic of EU standardization and HAS consultants was planned for April 2023. The goal of this meeting will be to take stock of the changes implemented by the European Commission over the last months (HAS contractor, budget for HAS assessments) and evaluate the ongoing pilots currently running on both IEC and ISO sides to make the HAS assessment more effective and timelier.

The SMB leadership plans to invite a CENELEC representative at the SMB meeting in June 2023 to report on such activities.

10.2. Other matters

Michael Teigeler announced that he will step out from SMB from June 2023 on and that Ralph Sporer will replace him as SMB alternate for Germany.

Annex A to SMB Decision 176/2

SMB approved the reports listed below:

Document	Committee
SMB/7719/R	TC 41
SMB/7729/R	TC 106
SMB/7733/R	TC 14
SMB/7736/R	TC 94
SMB/7738/R	TC 76
SMB/7741/R	TC 112
SMB/7742/R	TC 119
SMB/7748/R	TC 51
SMB/7749/R	TC 26
SMB/7750/R	TC 87
SMB/7751/R	TC 120
SMB/7756/R	TC 89
SMB/7757/R	TC 95
SMB/7758/R	TC 117
SMB/7765/R	TC 91
SMB/7766/R	TC 110
SMB/7767/R	TC 121
SMB/7768/R	SyC AAL
SMB/7769/R	TC 100
SMB/7770/R	TC 29
SMB/7772/R	TC 109
SMB/7776/R	TC 101
SMB/7777/R	TC 62 & SCs 62A, 62B, 62C, 62D
SMB/7778/R	TC 55
SMB/7783/R	TC 99
SMB/7784/R	TC 44
SMB/7785/R	TC 111
SMB/7787/R	TC 59 & SCs 59A, 59C, 59D, 59F, 59K, 59L, 59M, 59N
SMB/7788/R	PC 127
SMB/7789/R	TC 34 & SCs 34A, 34B, 34C, 34D
SMB/7793/R	SyC COMM
SMB/7794/R	TC 31
SMB/7798/R	TC 124

SMB/7801/R	TC 68
SMB/7802/R	TC 129
SMB/7803/R	TC 123 & SCs 23A, 23B, 23E, 23G, 23H, 23J and 23K
SMB/7806/R	TC 72
SMB/7807/R	TC 29



INTERNATIONAL ELECTROTECHNICAL COMMISSION

STANDARDIZATION MANAGEMENT BOARD

SUBJECT

Report of voting on the circulation of the UK NC revised proposal for a new ISO/IEC JTC on *Quantum technologies* for ballot by the IEC NCs

BACKGROUND

At SMB meeting 176, members were invited to vote on the circulation of the UK NC revised proposal for a new ISO/IEC JTC on *Quantum technologies* for ballot by the IEC NCs.

RESULT OF VOTING

Note: Y=Yes; N=No; A=Abstention

*Comment received

	AT	AU	CA	CN	DE	ES	FR	GB	IN	IT	JP	KR	MX	SE	US	Y	N	A
Item 1:	N*	Y*	N	N*	N*	Y*	N*	Y	Y	N*	N*	N*	Y*	N*	N*	5	15	0

CONCLUSION

Decisions of the Standardization Management Board (SMB) taken by correspondence require a two-thirds majority of those voting, abstention is not considered as voting; clause 14.3, Rules of Procedure.

SMB has therefore disapproved the circulation of the UK NC revised proposal for a new ISO/IEC JTC on *Quantum technologies* for ballot by the IEC NCs and took SMB Decision 176/7.

COMMENTS

Member	Comments
AT	As the recommendation of SEG 14 is not at hand we cannot agree to the involvement of the NCs at this stage.
AU	Noting that the recommendations of SEG 14 be incorporated into the work program of the new JTC should the proposal be successful.
CN	The quantum technology is within the scope of JTC1, we propose to consider the standardization work related to quantum technologies under JTC1, such as establish new SC. In addition, we suggest to wait for the research outcomes on SEG 14.
DE	SEG 14 needs to strongly consider speeding up their final recommendations. With these recommendations it should be timely discussed how to further handle this important topic in IEC.
ES	<p>We have received a strong interest on the standardization activities in the quantum technologies (QT) area. Spanish experts are already involved into QT standardization projects at European level and would welcome international works.</p> <p>It is important to assure that the activity will be developed in one technical body, so the collaboration between ISO and IEC in a new body should incorporate existing works as those of JTC 1 and the expected Interim Report of the IEC SEG that could be used as basis to prepare as a tentative work programme to be developed in the future joint technical body.</p> <p>We also ask that IEC will lead this JTC and the Rules that will apply to the JTC will be ones of IEC, i.e. ISO IEC Directives plus IEC Supplement.</p> <p>For us, it is also crucial to assure that the experts participating in the existing SEG and in JTC 1 are incorporated in the future technical body. This decision-making process should not demotivate them to continue providing their knowledge and efforts to the future activities.</p> <p>As a final comment, we understand that the collaboration of ISO, IEC and also ITU is important, but common works need to be analyzed in a case-by-case basis, looking always to maintain relevance of all the organizations. SPCG will keep playing a relevant role in the analysis of the common areas of interest to come.</p>
FR	Quantum technologies are important topics for standardization by IEC and ISO. To select and/or establish the appropriate organization, the conclusions and recommendations from SEG 14 are awaited first and as soon as possible.
IT	In principle we are not against the creation of a new JTC on Quantum Technology with IEC administrative leadership, which we consider a better solution instead of

	<p>putting the topic in JTC 1. Nevertheless due to the complexity of this topic, we require to have deep analysis on it to understand which will be the best standardisation strategy. We believe that SEG 14 work is important in this prospective, and outcome will be fundamental input to take the best decision in the overall interest of IEC.</p>
JP	<p>There is no need to put it on the NC ballot right now.</p> <p>It would be good to organize the issues a little more in SEG 14.</p> <p>And the establishment of new JTC should await the results of the JTF on JTCs.</p>
KR	<p>SEG 14 was scheduled to submit a draft recommendation in October, rescheduling is under discussion.</p> <p>I STRONGLY encourage to accelerate their work.</p> <p>If possible, SEG 14 submit an interim report to SMB 177 in June.</p> <p>Final recommendation might be available in October.</p>
MX	<p>Whatever the result, consider the work done by SEG 14.</p>
SE	<p>We do not approve that the UK NC proposal for a new ISO/IEC JTC on Quantum technologies will be submitted to IEC NCs for approval.</p>
US	<p>We would like SMB to consider the final report of the SEG 14 and the report on the structure of the JTC from the JTF that is being established before the NC vote on this proposal is launched.</p>