



STRATEGIC BUSINESS PLAN (SBP)

IEC/TC OR SC:	SECRETARIAT:	DATE:
TC 25	ITALY	2020-01-31

Please ensure this form is annexed to the Report to the Standardization Management Board if it has been prepared during a meeting, or sent to the Central Office promptly after its contents have been agreed by the committee.

A. STATE TITLE AND SCOPE OF TC

TITLE: IEC TC 25, Quantities and units.

SCOPE: To develop International Standards on quantities and units to be used generally in electro-technology. All such standards may relate to terms, definitions, signs and symbols, and use of quantities and units.

Note 1: Standards developed or reviewed by TC 25 shall follow relevant provisions of existing International Standards, particularly those concerned with quantities, units, symbols and signs, as specified in the ISO/IEC Directives – Part 2 ED8.0, sub-clause 9.3.

Note 2: The scope as listed accurately reflects the work of IEC TC 25. TC 25 develops standards that are relevant to all the other IEC Technical Committees, useful for their standardization process. For this reason TC 25 may be defined as support Technical Committee for all the other IEC Technical Committees, securing a uniform presentation of its standardization quantities, units, symbols and signs in all IEC publication.

Note 3: TC 25 does not deal with topics that are already explicitly covered by the scope of other IEC Technical Committees.

B. MANAGEMENT STRUCTURE OF THE TC

The TC 25 structure is listed on the IEC web site.

It currently consists of:

- One Joint Working Group linked to ISO/TC 12 and having the scope to revise and amend IEC-related parts of the standards series IEC 80000 and ISO 80000 regarding quantities and units;
- One Maintenance Team having the scope to revise standards regarding conventions concerning electric circuits, quantities and transformations in the modal components in three-phase AC systems in the field of electric power engineering, letter symbols to be used in telecommunications and electronics, in rotating electric machines and in transmission and distribution of power generation;
- One Advisory Group having the scope to assist the Chair and Secretary in tasks concerning coordination, planning and steering of the committee's work or other specific tasks of an advisory nature.

Internal liaisons with IEC TC/SCs considered complementary for the activity of TC 25 are established. Close cooperation is maintained with IEC TC 1, Terminology, especially concerning some parts of the International Electrotechnical Vocabulary (IEV). Important for the evaluation and the revision of the standard series IEC 80000 and ISO 80000 (Quantities and units), is the long-time liaison with ISO/ TC 12, Quantities and units. TC 25 also intends to maintain liaisons with several external organization as BIPM, CIE, ITU, IUPAP, OIML, and UNICODE.

During each plenary meeting (once a year) the TC 25 structure is revised and modified, if necessary. The current structure of IEC TC 25 was evaluated during the plenary meeting, in October 2017. It was decided to disband WG 1 and transfer its tasks to a new Joint Working Group operated together with ISO/TC 12. Additionally, it was decided to disband WG 4 and MT 7 and to incorporate their tasks in the scope of MT 8. At the plenary meeting in October 2016, it was decided to disband all WGs related to the standards series IEC 80003 and ISO 80003

regarding quantities and units for e-health. Consequently, the liaison with ISO/TC 215, Health informatics, has been disbanded.

C. BUSINESS ENVIRONMENT

The work of TC 25 has to ensure a continuous updating and revision of its standards used for drafting of standards by other IEC Technical Committees. Additionally, the expansion of applications of electromagnetic and optical technologies applied to communication and information technology, data transmission, processing and storage, as well as topics related to power technologies, requires a timely development of standards for the related quantities and units. The series of standards IEC 60027 has a large impact on other International, regional and national standards, as well as on regulations. Various parts of the standard series IEC 60027 and IEC 80000 and ISO 80000 are mentioned in the ISO/IEC Directives - Part 2 ED8.0, sub-clause 9.3.

D. MARKET DEMAND

The customers of TC 25 standards include all people drafting technical documents, in particular standards or technical drawings. Additionally certification bodies, instrument calibration and testing accredited laboratories, as well as manufacturers of every kind of electrical equipment may be mentioned. All these users cannot operate without specifications in terms of units as given in the series of standards IEC 60027. These symbols for quantities and units are necessary for the design and construction of every kind of equipment. Besides that, all other IEC standards also use these symbols. In addition, teachers and students, especially in electrical engineering and physics, represent a large group of customers of TC 25.

E. TRENDS IN TECHNOLOGY AND IN THE MARKET

TC 25 standard series regarding letter symbols to be used in electrical technology and quantities and units, are needed to facilitate and to ensure effective communications between laboratories and industrial partners, in order to facilitate research and development within the multinational worldwide scientific and technical community.

In order to facilitate international trade, to guarantee an efficient application of technologies at a worldwide level for industry and science and to support multinational business, the above-mentioned standards of TC 25 are essential.

F. SYSTEMS APPROACH ASPECTS (REFERENCE - AC/33/2013)

The more specialized topics of electrical technology should remain as pure IEC standards. Several projects of TC 25 are conducted in cooperation with IEC/TC 1, Terminology, and especially in cooperation with IEC/ TC 1/WG 100, fundamental concepts, in order to maintain and improve the consistency of the International Electrotechnical Vocabulary.

For the evaluation of the standard series IEC 80000 and ISO 80000, the collaboration with ISO/TC 12 is necessary.

G. Co CONFORMITY ASSESSMENT

The standards produced by TC 25 are in line with the requirements related to conformity assessment aspects as reported in ISO/IEC Directives – Part 2 ED8.0, clause 33.

H. H HORIZONTAL ISSUES

None.

I. 3-5 YEAR PROJECTED STRATEGIC OBJECTIVES, ACTIONS, TARGET DATES

STRATEGIC OBJECTIVES 3-5 YEARS	ACTIONS TO SUPPORT THE STRATEGIC OBJECTIVES	TARGET DATE(S) TO COMPLETE THE ACTIONS
<p>Continue to maintain and develop standards on quantities and units to be used generally in electro-technology, as well as terms, definitions, signs and symbols, and use of quantities and units.</p>	<p>On an annual basis, identify new technology sectors (or their evolution) that could require the development of new standards or the maintenance of existing standards</p>	<p>By December of each year</p>
	<p>On an annual basis, review the current structure to consider the SMB guidance to keep the organization as lean as possible to take advantage of all available work structures SC/WG/PT/MT for an effective operation.</p>	<p>By December of each year</p>
<p>Nurture relationships with organizations having an A liaison with TC 25. Increase A liaisons with international organizations where this would be beneficial to TC 25.</p>	<p>Continuously consider market trends and impacts, and identify areas for improvement /development.</p>	<p>By December of each year</p>
	<p>Take into account new activities in IEC and ISO and consider the impact on TC 25. Determine where TC 25 input/expertise will be needed.</p>	<p>By December of each year</p>
	<p>Encourage participation of new market players, especially those from emerging economies and developing countries.</p>	<p>By December of each year</p>
<p>Continue to identify new technical areas requiring attention, and establish appropriate working groups or subcommittees for such work if necessary</p>	<p>Encourage NCs to provide input on a continuous basis.</p>	<p>Ongoing</p>

Note: The progress on the actions should be reported in the RSMB.