



STRATEGIC BUSINESS PLAN (SBP)

IEC/TC OR SC:	SECRETARIAT:	DATE:
78	France	2021-07

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

TC 78 was established in 1975 with the scope "To prepare international standards on electrical and mechanical characteristics, as well as the reliability requirements of tools and equipment used in Live Working".

In response to market trends, the work of TC 78 was expanded in 1996 and the scope modified. In 2002, the scope was amended for editing purpose.

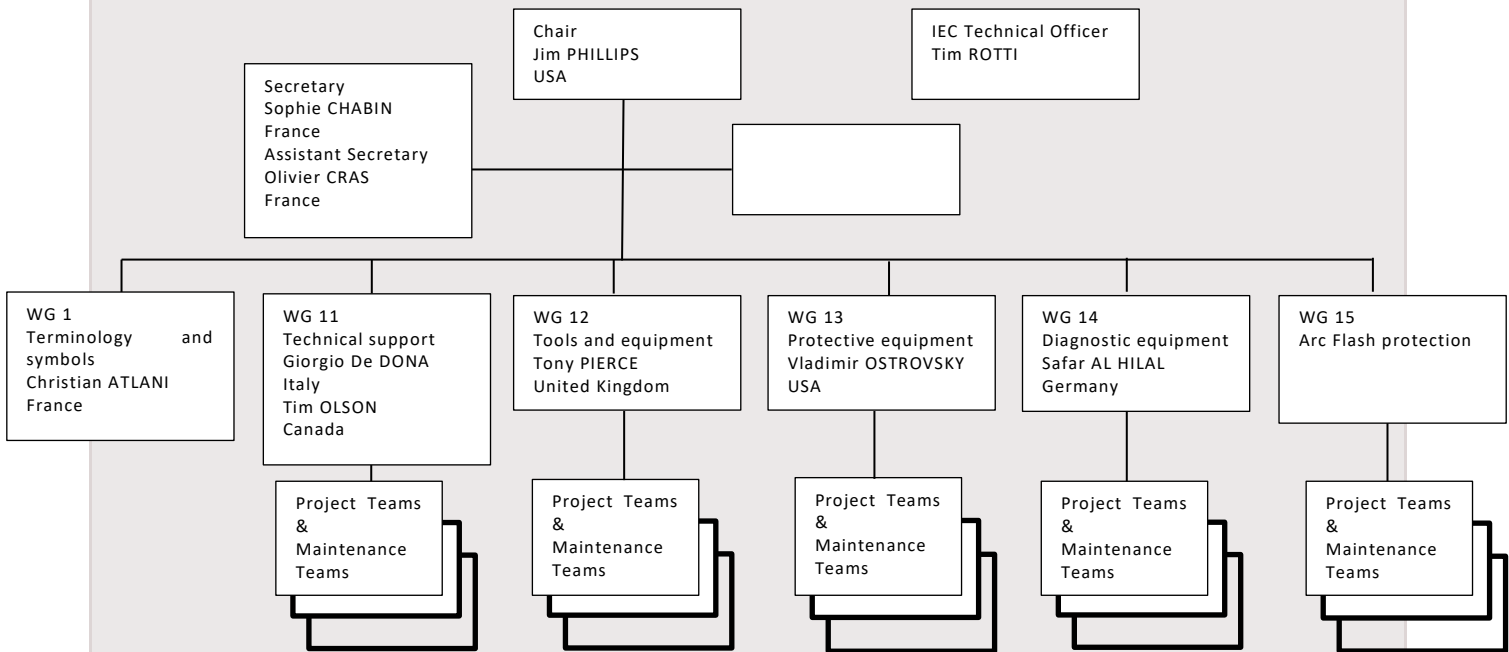
"To prepare International Standards for tools, equipment and devices for utilization in Live Working, including their performance requirements, care and maintenance.

Excluded: Work practices and methods for Live Working.

To prepare technical publications related to the utilization of tools, equipment and devices on, and in the vicinity of, live parts of electrical installations and systems."

B. MANAGEMENT STRUCTURE OF THE TC

TC 78 works are carried out by six working groups. The Chair also has a CAG that is composed of the Chair, the Vice-Chair, the secretary and the WG convenors as shown:



C. BUSINESS ENVIRONMENT

The increasing use of electricity throughout the world coupled with the rapid growth of producers, transmitters and distributors (utilities) makes obtaining power outages for maintenance more difficult. The mounting economic and environmental pressures worldwide make installation of new networks ever more challenging and require greater utilisation of existing facilities.

Live working can assist in the avoidance of outages. These outages are disruptive to electricity users and costly to both the utilities and the users in terms of loss of revenue, interruption in manufacturing, administration resources, regulatory and contractual penalties and constraints. Similarly, live working provides a means for power network operators to achieve efficiencies through cost effective preventive maintenance, improved reliability and availability without the need for an outage.

Sales statistics of tools and products for live working are not available to the Committee.

External environment (out of our control):

- regulatory constraints, live working methods and use of products which may be specific to each region or country;
- penalties for outages, congestion fees;
- difficulty accessing live lines;
- difficulty obtaining outages;
- perception of increased risk of live working;
- lack of available resources and funding in some utilities.

Internal environment (under our control):

Standardization provides a means for manufacturers to produce tools, equipment and devices of similar performance and therefore create a competitive and free market environment without bias to particular manufacturer or National regulation.

Specifying performance criteria in the standards should provide a platform for manufacturers to develop and manufacture tools, equipment and devices that improves worker safety when used in accordance with the prescribed limits without impeding innovation in technology or materials.

Live working can help achieve cost savings and improve quality of performance.

D. MARKET DEMAND

TC 78 has developed and is developing a range of standards to be used by manufacturers and the support industry to produce tools, equipment and devices that contribute to safety and meet performance requirements. These standards are also used worldwide by electrical power utilities and industries for the construction, inspection, maintenance and repair of their live networks in a safe manner. Manufacturers, utilities and other bodies have been actively involved in this work.

TC78 publications are widely used at regional and national levels, and are often adopted as national standards. They are increasingly referenced in legislation, which can have business impacts. They are also used as the basis for contracts.

E. SUSTAINABLE DEVELOPMENT GOALS

INDICATE THE SUSTAINABLE DEVELOPMENT GOALS (SDGs) THAT ARE ADDRESSED BY WORK WITHIN THE TC/SC. INDICATE EACH SDG INDICATOR AFFECTED (REFERENCE SPREADSHEET AVAILABLE AT <https://www.iec.ch/SDG/>), AND PROVIDE SPECIFIC INFORMATION ABOUT HOW THE TC/SC IS ADDRESSING THE SDG. CONSIDER BOTH DIRECT AND INDIRECT IMPACTS OF THE WORK OF THE TC/SC.

- | | |
|---|---|
| <input type="checkbox"/> GOAL 1: No Poverty | <input type="checkbox"/> GOAL 10: Reduced Inequality |
| <input type="checkbox"/> GOAL 2: Zero Hunger | <input type="checkbox"/> GOAL 11: Sustainable Cities and Communities |
| <input type="checkbox"/> GOAL 3: Good Health and Well-being | <input type="checkbox"/> GOAL 12: Responsible Consumption & Production |
| <input type="checkbox"/> GOAL 4: Quality Education | <input type="checkbox"/> GOAL 13: Climate Action |
| <input type="checkbox"/> GOAL 5: Gender Equality | <input type="checkbox"/> GOAL 14: Life Below Water |
| <input type="checkbox"/> GOAL 6: Clean Water and Sanitation | <input type="checkbox"/> GOAL 15: Life on Land |
| <input type="checkbox"/> GOAL 7: Affordable and Clean Energy | <input type="checkbox"/> GOAL 16: Peace, Justice Strong Institutions |
| <input type="checkbox"/> GOAL 8: Decent Work & Economic Growth | <input type="checkbox"/> GOAL 17: Partnerships to achieve the Goals |
| <input type="checkbox"/> GOAL 9: Industry, Innovation & Infrastructure | |

SDGs APPLICABLE TO TC 78 ARE CURRENTLY BEING DISCUSSED AND WILL BE REPORTED IN THE NEXT REVISION OF THE SBP.

F. TRENDS IN TECHNOLOGY AND IN THE MARKET

Emerging technologies require the proposed standard development to occur at an accelerated pace to keep up with a fast moving technology.

Increase of the nominal voltage of power installations (AC and DC).

The increasing use of helicopters, Unmanned Aerial Vehicles (UAV), robotics, asset tracking devices, DC applications, renewable energies, changes in the electrical power markets and occupational health concerns will possibly require new standards for tools, equipment and devices as new materials (high temperature conductors, different composite materials, etc.) are developed, new work methods become available and new issues arise.

Asset management changes.

Changes in practices, methods, procedures and qualifications.

Increase in the demand for arc flash protection products.

G. SYSTEMS APPROACH ASPECTS (SEE DIRECTIVES PART 1 ANNEX SP)

Does your TC/SC have a need for a systems approach?

TC 78 has no need for a systems approach.

H. CONFORMITY ASSESSMENT

With reference to clause 6.7 of Part 2 of the ISO/IEC directives, are all your publications in line with the requirements related to conformity assessment aspects? Not applicable to TC78.

Some TC78 publications are used by the IEC System for Conformity Testing to Standards for Safety of Electrical Equipment (IECEE). On October 2016, these publications were IEC 60900 ed.3, IEC 61318 ed.3, IEC 61482-1-1 ed.1, IEC 61482-1-2 ed.1 and IEC 61482-2 ed.1.

TC 78 standards include test specification, reproducible test requirements and test methods.

Are there likely to be special conformity assessment requirements generated by any standards projects? If yes, list which projects. Not applicable to TC78.

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 the effort to increase the awareness of TC78 publications and to increase the awareness of the benefits of live working. Extend the effort to future years.</p>	<p>Deliver presentations and develop papers of TC78 activities at various events (ESMO, ICOLIM, CIGRE...)</p>	<p>On going</p>
<p>Protection from RF fields during live work</p>	<p>To prepare a technical report on possible hazards, protective equipment and monitoring equipment related to live working in the presence of RF fields</p>	<p>2025</p>
<p>Impact of new technologies on overhead lines (and on substations) such as high temperature conductors</p>	<p>Consider the impact of high temperature on live working tools, devices and equipment.</p>	<p>Revise or develop standards as applicable</p>
<p>Live working on DC electrical installations</p>	<p>Monitor activities Identify gaps in current IEC standards</p>	<p>Revise or develop standards as applicable</p>
<p>Expand protection against arc flash with personal protective equipment and devices. To analyse the current status and identify gaps in current standards</p>	<p>WG15 to evaluate additional PPE classes and additional product standards</p>	<p>2025</p>

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