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| CENELEC/TC or SC | Secretariat | Date       |
| TC 45B           | France      | 2020-11-04 |

**TC or SC title:** Radiation protection instrumentation

## **A Background**

CLC/TC 45B endorses, on a case by case decision, IEC/SC 45B and IEC/TC 45 documents as European standards.

## **B Business Environment**

### **B.1 General**

CLC/TC 45B adopts IEC standards, with or without common modifications, that address instrumentation used for:

- the measurement of ionizing radiation in the workplace, to the public, and in the environment for radiation protection purposes;
- illicit trafficking detection and identification of radionuclides;
- ionizing radiation-based security screening;
- industrial and commercial uses of ionizing radiation nuclear technology.

### **B.2 Market demand**

The customers are typically instrument manufacturers, instrument users, regulators, legislators and testing organisations. The published EN standards are implemented as national standards within the European countries and sent to IEC for voluntary harmonisation. They may also serve as references when drafting tenders and contracts.

### **B.3 Trends in technology**

The rapid change in electronics, information and communications, and other technologies impact the work of CLC/TC 45B. Examples are the increasing use of software, increased use of pulsed ionising radiation and new EMC issues.

### **B.4 Market trends**

The increased demand for reliable radiation protection and security measurements is the market trend that impacts the CLC/TC 45B work.

### **B.5 Ecological environment**

Some of the instruments covered by the CLC/TC 45B standards contribute to the environmental protection.

### **B.6 Involvement of societal stakeholders**

Social stakeholders are involved through the national committees.

### **B.7 Involvement of SMEs**

SMEs regularly take part in CLC/TC 45B meetings and discussions.

## **C System approach aspects**

CLC/TC 45B has naturally a very close cooperation with IEC/SC 45B as well as with IEC/TC 45. This cooperation goes in both directions: the CLC committee transposes IEC standards but also sends its work results (a list of common modifications) to the IEC committees for consideration

during the next revision of respective standards. Other less formal liaisons take place with EC, ISO/TC 85/SC 2, IAEA, etc.

**D Objectives and strategies (3 to 5 years)**

CLC/TC 45B generally does not develop its own standards but endorses IEC/SC 45B and IEC/TC 45 documents.

**E Action plan**

An average number of about 2-3 standards will be treated each year, on a case-by-case decision, choosing the documents for which there is consensus within CLC/TC 45B followed by a PQ (Primary Questionnaire).

**F Useful links to CENELEC web site**

TC home page giving access to Membership, TC/SC Officers, Scope, Publications, Work programme [password-protected area].

[https://www.cenelec.eu/dyn/www/f?p=104:7:684192487200801:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258681,25](https://www.cenelec.eu/dyn/www/f?p=104:7:684192487200801:::FSP_ORG_ID,FSP_LANG_ID:1258681,25)

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