

INTERNATIONAL STANDARD

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Second edition
2002-06

Loading tests on overhead line structures

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOADING TESTS ON OVERHEAD LINE STRUCTURES

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60652 has been prepared by IEC technical committee 11: Overhead lines.

This second edition cancels and replaces the first edition, published in 1979, and constitutes a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
11/167/FDIS	11/168/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

LOADING TESTS ON OVERHEAD LINE STRUCTURES

1 Scope

This International Standard codifies the methods of testing supports for overhead lines.

It is applicable to the testing of supports and structures of overhead lines for voltages above 45 kV; it can also serve as reference to the testing of lower voltage supports.

There is no restriction on the type of material used in the fabrication of the supports which may include, but not be limited to, metallic alloys, concrete, timber, laminated wood and composite materials. If required by the client, this standard may also be applied to the testing of telecommunication supports, railway/tramway overhead electrification supports, electrical substation gantries, street lighting columns, wind turbine towers, ski-lift supports, etc.

Tests on reduced scale models of supports are not covered by this standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050(466):1990, *International Electrotechnical Vocabulary (IEV) – Chapter 466: Overhead lines*

ISO/IEC 17025:1999, *General requirements for the competence of testing and calibration laboratories*

3 Definitions

For the purposes of this International Standard, the following definitions apply. The definitions listed below supplement those given in IEC 60050(466).

3.1

client

organization which contracts with the testing station and provides the test specification

3.2

design load

load for which the support has been designed