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INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

Specification for radio disturbance and immunity measuring apparatus and methods –
Part 2-5: In situ measurements of disturbing emissions produced by physically large equipment

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ELECTROTECHNICAL
COMMISSION

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SPECIFICATION FOR RADIO DISTURBANCE AND IMMUNITY MEASURING APPARATUS AND METHODS –

Part 2-5: *In situ* measurements of disturbing emissions produced by physically large equipment

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CISPR 16-2-5, which is a technical report, has been prepared by CISPR subcommittee H: Limits for the protection of radio services.

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

Enquiry draft	Report on voting
CISPR/H/161/DTR	CISPR/H/172/RVC

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 2.

A list of all parts of the CISPR 16 series, published under the general title *Specification for radio disturbance and immunity measuring apparatus and methods,* can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

SPECIFICATION FOR RADIO DISTURBANCE AND IMMUNITY MEASURING APPARATUS AND METHODS –

Part 2-5: *In situ* measurements of disturbing emissions produced by physically large equipment

1 Scope

This part of CISPR 16 deals with *in situ* electromagnetic disturbance measurements in any environment from physically large equipment and systems excluding networks.

It covers both radiated and conducted emission phenomena, and does not deal with immunity tests.

This technical report is intended to be applied primarily to such physically large equipment which are not under the scope of any existing emission standards (as for example CISPR 11 and CISPR 22). It serves only as a guideline on how to deal with emissions of that equipment at the particular location of installation. It does not establish any emission requirements.

NOTE 1 Although this technical report is intended to be applied to equipment which is not under the scope of any existing emission standards, it may be used also in such cases in order to serve as additional information for carrying out *in situ* measurements for any type of large equipment.

NOTE 2 Examples of large equipment are: production machines, conveyors, large displays, aircraft simulators, traffic control equipment, etc.

Due to the severe impact of the conditions existing at a particular location of operation and the use of the respective large equipment, however, it is not intended to use the measurements in the frame of type testing.

NOTE 3 In general, type testing on large equipment is only possible at standardized test sites in a controlled environment. The assessment results obtained under in situ conditions are only valid for the respective individual large equipment actually measured at its particular place of installation. These results cannot be transposed to other equipment of the same type, but installed at other locations.

Reference in-situ measurement distances will be given. This allows comparison of the measurement results with limits from existing relevant standards.

The frequency range under consideration is from 9 kHz to 18 GHz.

Dealing with biological effects on living matter is excluded from this document.

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.

CISPR 16-1-1, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus*

CISPR 16-1-2, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-2: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Conducted disturbances*

CISPR 16-1-4, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Radiated disturbances*

CISPR 16-2-1, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements*

CISPR 16-2-3, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements*

NOTE See also the Bibliography