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Spectrum Management and Telecommunications

Interference-Causing Equipment Standard

Industrial, Scientific and Medical (ISM) Radio Frequency Generators

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1. General

- 1.1 This Interference-Causing Equipment Standard sets out the technical requirements relative to radiated noise emissions from ISM radio frequency generators.
- 1.2.1 Subject to subsections 1.2.2 and 1.2.3, Sections 3 to 7 apply to every ISM radio frequency generator manufactured in or imported into Canada except those manufactured or imported solely for export purposes.
- 1.2.1.1 A transition period ending December 1, 2006 is provided, within which compliance with either ICES-001, Issue 3 or ICES-001, Issue 4 will be accepted. After the above date, only compliance with ICES-001, Issue 4 will be accepted.
- 1.2.2 Sections 3 to 7 do not apply to ISM radio frequency generators used:
- (a) solely for demonstration and exhibition purposes; or
 - (b) as prototype units.
- 1.2.3 (1) Sections 3 to 7 do not apply to units or models of ISM radio frequency generators for which the Minister has granted special permission to the manufacturer, importer or owner.
- (2) The Minister may grant a special permission where:
- (a) the manufacturer, importer or owner has presented a written application giving:
 - (i) the reasons for the request;
 - (ii) an analysis based on sound engineering principles showing that the unit or model of ISM radio frequency generator will not pose a significant risk to radiocommunication; and
 - (iii) a guarantee of compliance with all the conditions the Minister may set in the special permission.
 - (b) the Minister is satisfied that the unit or model will not pose a significant risk to radiocommunication.
- (3) The special permission is valid only if:
- (a) the unit bears a label stating that it is operating under special permission and setting out the conditions of that special permission; and
 - (b) the unit complies with all conditions set out in the special permission.

- (4) The Minister may revoke or amend the special permission granted under subsection (2) at any time without prior notice.

2. Definitions

- 2.1 In this standard, *ISM radio frequency generator* means any interference-causing equipment that generates and/or uses radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications, information technology and other applications covered by other Industry Canada standards.
- 2.2 All other definitions are to be found in the publication referred to in Section 7.1.2.

3. Instrumentation

- 3.1 Instrumentation shall be in accordance with the publication referred to in Section 7.1.1.

4. Methods of Measurement

- 4.1 The methods of measurement shall be in accordance with the publication referred to in Section 7.1.1.

5. Limits

The limits for radio noise emissions from ISM radio frequency generators are as specified in the publication referred to in Section 7.1.1. These limits do not apply to ISM radio frequency generators while being tested for compliance with this standard.

6. Procedural Requirements

- 6.1 A record of the measurement method and results shall be retained by the manufacturer or importer for a period of at least five years and made available for examination at the Minister's request.
- 6.2 A written notice to the end user indicating compliance must accompany each industrial, scientific or medical radio frequency generator. The notice shall be in the form of a label that is affixed to the apparatus. Where because of insufficient space or other constraints it is not feasible to affix a label to the apparatus, the notice may be in the form of a statement included in the user manual. A suggested text for the notice, in English and in French, is provided in the Annex.

7. Reference Publications

- 7.1 This standard refers to the following publications and where such reference is made, it shall be to the editions listed below.
- 7.1.1 Canadian Standards Association Standard CAN/CSA-CEI/IEC CISPR 11-04, *Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment - Electromagnetic Disturbance Characteristics - Limits and Methods of Measurement*
- 7.1.2 International Electrotechnical Commission (IEC) Publication No. 50(161)(1990): *International Electrotechnical Vocabulary (IEV)*, Chapter 16: *Electromagnetic Compatibility*.

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Annex

Suggested text for the notice indicating compliance with this Standard:

This ISM device complies with Canadian ICES-001.

Cet appareil ISM est conforme à la norme NMB-001 du Canada.