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RSS-210 Issue 5, Amendment
November 30, 2002

Spectrum Management and Telecommunications Policy

Radio Standards Specification

RSS-210 Issue 5: Amendment

RSS-210, Issue 5, *Low Power License-Exempt Radiocommunication Devices (all Frequency Bands)* is hereby amended as shown below. Where there is disagreement between existing text of RSS-210, Issue 5 and the following amendments, the amendments shall take precedence.

I Section 6.2.2(o): 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz

Formerly, spread spectrum devices in the 2400-2483.5 MHz band could operate license-exempt only if they met certain conditions set out in RSS-210, Issue 5. Devices not meeting these conditions could be certified subject to licensing under RSS-139: *Licensed Radiocommunication Devices in the 2400-2483.5 MHz Band*. As RSS-139 has been withdrawn, all the conditions in RSS-210 pertaining to licensed vs. unlicensed operation are eliminated. Now, all devices in the 2400-2483.5 MHz band can operate license-exempt (on a no-protection, no-interference basis), provided they comply with the provisions of RSS-210, Issue 5, as amended in paragraphs (i) through (v) below:

- (i) For frequency hopping systems in the 2400-2483.5 MHz band, the conditions on channel bandwidth (set out in the first two paragraphs of Section 6.2.2(o)(a3)) have been eliminated. Now, no hopping channel bandwidth is specified for this band.

- (ii) Frequency hopping systems in the 2400-2483.5 MHz band shall comply with the following requirements:

Frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 non-overlapping hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. If fewer than 75 hopping channels are used, the frequency hopping system may employ intelligent hopping techniques to avoid interference to other transmissions. Transmissions on particular hopping frequencies may be avoided or suppressed provided that a minimum of 15 hopping channels of the hopset are used.

- (iii) The processing gain requirement is eliminated.
- (iv) Systems employing digital modulation techniques (which includes direct sequence) can now be certified under RSS-210 provided they comply with the following requirements:

The minimum 6 dB bandwidth shall be at least 500 kHz.

The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

The transmitter output power shall not exceed 1 watt.

- (v) Hybrid systems employing a combination of frequency hopping and digital modulation shall now comply with the following requirements:

With the digital modulation operation of the hybrid system turned off, the frequency hopping operation shall have an average time of occupancy on any frequency not exceeding 0.4 seconds within a duration in seconds equal to the number of hopping frequencies multiplied by 0.4.

With the frequency hopping turned off, the digital modulation operation shall comply with the power density requirements for digital modulation systems shown in paragraph (iv) above.

II Section 6.2.2(n): Field Disturbance Sensors (2435-2465 MHz only)

Formerly, field disturbance sensors in the 2435-2450 MHz sub-band of the 2435-2465 MHz band were subject to certification under RSS-139 and to licensing, unless they met certain conditions allowing them to operate license-exempt under RSS-210. As RSS-139 has been withdrawn, all the conditions set out in RSS-210 pertaining to licensed vs. unlicensed operation are eliminated. All field disturbance sensors in the 2435-2465 MHz band can therefore operate license-exempt (on a no-protection, no-interference basis), provided they comply with the provisions of RSS-210, Issue 5, with the following amendment:

Section 6.2.2(n) Note 6: "Special Conditions Applicable to the Band 2435-2450 MHz " is deleted.

Issued under the authority of
the Minister of Industry

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