

§ 18.213

(b) The compliance information may be placed in the instruction manual, on a separate sheet, or on the packaging. There is no specific format for this information.

[63 FR 36603, July 7, 1998]

§ 18.213 Information to the user.

Information on the following matters shall be provided to the user in the instruction manual or on the packaging if an instruction manual is not provided for any type of ISM equipment:

(a) The interference potential of the device or system

(b) Maintenance of the system

(c) Simple measures that can be taken by the user to correct interference.

(d) Manufacturers of RF lighting devices must provide an advisory statement, either on the product packaging or with other user documentation, similar to the following: This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Variations of this language are permitted provided all the points of the statement are addressed and may be presented in any legible font or text style.

[50 FR 36069, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 64 FR 37419, July 12, 1999]

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Subpart C—Technical Standards

§ 18.301 Operating frequencies.

ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with §2.106 of the rules, are allocated for use by ISM equipment:

| ISM frequency | Tolerance |
|------------------|------------|
| 6.78 MHz | ±15.0 kHz |
| 13.56 MHz | ±7.0 kHz |
| 27.12 MHz | ±163.0 kHz |
| 40.68 MHz | ±20.0 kHz |
| 915 MHz | ±13.0 MHz |
| 2,450 MHz | ±50.0 MHz |
| 5,800 MHz | ±75.0 MHz |
| 24,125 MHz | ±125.0 MHz |
| 61.25 GHz | ±250.0 MHz |
| 122.50 GHz | ±500.0 MHz |
| 245.00 GHz | ±1.0 GHz |

NOTE: The use of the 6.78 MHz ±15 kHz frequency band is subject to the conditions of footnote 524 of the Table of Allocations. See §2.106.

§ 18.303 Prohibited frequency bands.

Operation of ISM equipment within the following safety, search and rescue frequency bands is prohibited: 490–510 kHz, 2170–2194 kHz, 8354–8374 kHz, 121.4–121.6 MHz, 156.7–156.9 MHz, and 242.8–243.2 MHz.

§ 18.305 Field strength limits.

(a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| Equipment | Operating frequency | RF Power generated by equipment (watts) | Field strength limit (uV/m) | Distance (meters) |
|--|--------------------------|---|---|-------------------|
| Any type unless otherwise specified (miscellaneous). | Any ISM frequency | Below 500 | 25 | 300 |
| | | 500 or more | $25 \times \sqrt{\text{power}/500}$ | 1300 |
| | Any non-ISM frequency .. | Below 500 | 15 | 300 |
| | | 500 or more | $15 \times \sqrt{\text{power}/500}$ | 1300 |
| Industrial heaters and RF stabilized arc welders. | On or below 5,725 MHz .. | Any | 10 | 1,600 |
| | Above 5,725 MHz | Any | (²) | (²) |
| Medical diathermy | Any ISM frequency | Any | 25 | 300 |
| | Any non-ISM frequency .. | Any | 15 | 300 |
| Ultrasonic | Below 490 kHz | Below 500 | $2,400/\text{F}(\text{kHz})$ | 300 |
| | | 500 or more | $2,400/\text{F}(\text{kHz}) \times \sqrt{\text{power}/500}$ | 1300 |
| | 490 to 1,600 kHz | Any | $24,000/\text{F}(\text{kHz})$ | 30 |
| | Above 1,600 kHz | Any | 15 | 30 |