

and Exposure Criteria for Radio-frequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube). Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.

(3) Compliance with SAR limits can be demonstrated by either laboratory measurement techniques or by computational modeling. Methodologies and references for SAR evaluation are described in numerous technical publications including “IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields—RF and Microwave,” IEEE C95.3-1991.

(4) For purposes of analyzing portable transmitting devices under the occupational/controlled criteria, the time-averaging provisions of the MPE guidelines identified in §1.1310 of this chapter can be used in conjunction with typical maximum duty factors to determine maximum likely exposure levels.

(5) Time-averaging provisions of the MPE guidelines identified in §1.1310 of this chapter may not be used in determining typical exposure levels for portable devices intended for use by consumers, such as hand-held cellular telephones, that are considered to operate in general population/uncontrolled environments as defined above. However, “source-based” time-averaging based on an inherent property or duty-cycle of a device is allowed. An example of this would be the determination of exposure from a device that uses digital technology such as a time-division multiple-access (TDMA) scheme for transmission of a signal. In general, maximum average power levels must be used to determine compliance.

[61 FR 41017, Aug. 7, 1996]

Subpart K—Importation of Devices Capable of Causing Harmful Interference

§ 2.1201 Purpose.

(a) In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the

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equipment is to be operated. In addition to the technical standards, the rules governing the service may require that such equipment receive an equipment authorization from the Commission as a prerequisite for marketing and importing this equipment into the U.S.A. The marketing rules, § 2.801 *et seq.*, were adopted pursuant to the authority in section 302 of the Communications Act of 1934, as amended (47 U.S.C. 302).

(b) The rules in this section set out the conditions under which radio frequency devices as defined in § 2.801 that are capable of causing harmful interference to radio communications may be imported into the U.S.A.

(c) Nothing in this section prevents importers from shipping goods into foreign trade zones or Customs bonded warehouses, such as is the prescribed procedure under § 2.1204(a)(5). Radio frequency devices capable of causing harmful interference, however, cannot be withdrawn from these areas except in accordance with the provisions of this section.

[41 FR 25904, June 23, 1976, as amended at 54 FR 17714, Apr. 25, 1989; 56 FR 26619, June 10, 1991; 57 FR 38286, Aug. 24, 1992]

§ 2.1202 Exclusions.

The provisions of this section do not apply to the importation of:

(a) Cameras, musical greeting cards, quartz watches and clocks, modules of quartz watches and clocks, hand-held calculators and electronic games, and other similar unintentional radiators which utilize low level battery power and which do not contain provisions for operation while connected to AC power lines.

(b) Unintentional radiators which are exempted from technical standards and other requirements as specified in § 15.103 of this chapter.

(c) Radio frequency devices manufactured and assembled in the U.S.A. that meet applicable FCC technical standards and which have not been modified or received further assembly.

(d) Radio frequency devices previously properly imported that have been exported for repair and re-imported for use.

(e) Subassemblies, parts, or components of radio frequency devices unless

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they constitute an essentially completed device which requires only the addition of cabinets, knobs, speakers, or similar minor attachments before marketing or use. Form 740 information will be required to be submitted for computer circuit boards that are actually peripheral devices as defined in § 15.3(r) of this chapter and all devices that, by themselves, are subject to FCC marketing rules.

[56 FR 26619, June 10, 1991]

§ 2.1203 General requirement for entry into the U.S.A.

(a) No radio frequency device may be imported into the Customs territory of the United States unless the importer or ultimate consignee, or their designated customs broker, declares that the device meets one of the conditions for entry set out in this section.

(b) A separate declaration shall be used for each line item in the entry or entry summary containing an RF device, or for each different radio frequency device within a line item when the elements of the declaration are not identical.

(c) Failure to properly declare the importation category for an entry of radio frequency devices may result in refused entry, refused withdrawal for consumption, required redelivery to the Customs port, and other administrative, civil and criminal remedies provided by law.

(d) Whoever makes a declaration pursuant to § 2.1203(a) must provide, upon request made within one year of the date of entry, documentation on how an imported radio frequency device was determined to be in compliance with Commission requirements.

[56 FR 26619, June 10, 1991; 56 FR 32474, July 16, 1991]

§ 2.1204 Import conditions.

(a) Radio frequency devices may be imported only if one or more of these conditions are met:

(1) The radio frequency device has been issued an equipment authorization by the FCC.

(2) The radio frequency device is not required to have an equipment authorization and the device complies with

FCC technical administrative regulations.

(3) The radio frequency device is being imported in limited quantities for testing and evaluation to determine compliance with the FCC Rules and Regulations or suitability for marketing. The device will not be offered for sale or marketed. The phrase "limited quantities," in this context, means 200 or fewer units. Prior to importation of more than 200 units, written approval must be obtained from the Chief, Enforcement Division, Field Operations Bureau, FCC. Distinctly different models of a product and separate generations of a particular model under development are considered to be separate devices.

(4) The radio frequency device is being imported in limited quantities for demonstration at industry trade shows and the device will not be offered for sale or marketed. The phrase "limited quantities," in this context, means ten or fewer units. Prior to importation of more than ten units, written approval must be obtained from the Chief, Compliance Division, Compliance and Information Bureau, FCC. Distinctly different models of a product and separate generations of a particular model under development are considered to be separate devices.

(5) The radio frequency device is being imported solely for export. The device will not be marketed or offered for sale for use in the U.S.

(6) The radio frequency device is being imported for use exclusively by the U.S. Government.

(7) Three or fewer radio receivers, computers, or other unintentional radiators as defined in part 15 of this chapter, are being imported for the individual's personal use and are not intended for sale.

(8) The radio frequency device is being imported for repair and will not be offered for sale or marketed.

(b) The ultimate consignee must be able to document compliance with the selected import condition and the basis for determining the import condition applied.

[56 FR 26619, June 10, 1991, as amended at 57 FR 38286, Aug. 24, 1992; 61 FR 8477, Mar. 5, 1996]

§ 2.1205 Filing of required declaration.

NOTE: The U.S. Customs Service is implementing a paperless entry system. Until the Customs electronic system is operational, submit the required declaration following the guidelines in paragraph (a) of this section. When the Customs system is implemented, follow the guidelines in paragraph (b) of this section.

(a) For points of entry where electronic filing with Customs has not been implemented, use FCC Form 740 to provide the needed information and declarations.

(1) Mail the original of FCC Form 740 to: FCC, Washington, DC 20554, Attention: Imports, on or before the date the Customs entry papers are filed.

(2) Attach a copy of FCC Form 740 to the Customs entry papers.

(b)(1) For points of entry where electronic filing with Customs is available, submit the following information to Customs when filing the entry documentation and the entry summary documentation electronically. Follow procedures established by Customs for electronic filing.

(i) The terms under which the device is being imported, as indicated by citing the import condition number specified in § 2.1204(a).

(ii) The FCC identifier as specified in § 2.925, if the device has been granted an equipment authorization;

(iii) The quantity of devices being imported, regardless of what unit is specified in the Harmonized Tariff Schedule of the United States; and

(iv) A commercial product description which is to include the trade name, a model/type number (or model/type name) and other descriptive information about the device being imported.

(2) For importers unable to participate in the electronic filing process with Customs for good cause, declarations are to be made in accordance with paragraph (a) of this section.

[56 FR 26619, June 10, 1991]

§ 2.1207 Examination of imported equipment.

In order to determine compliance with its regulations, Commission representatives may examine or test any radio frequency device that is imported. If such radio frequency device

has already entered the U.S., the ultimate consignee or subsequent owners of that device must, upon request, made within one year of the date of entry, make that device available for examination or testing by the Commission.

[56 FR 26620, June 10, 1991]

Subpart L—Registration of Telephone Terminal Equipment

REGISTRATION PROCEDURE

§ 2.1300 Cross reference.

The general provisions of this part, §§ 2.909, 2.923, 2.929, 2.935, 2.936, and 2.946 shall apply to applications for and grants of registration for telephone terminal equipment pursuant to part 68 of this chapter.

(Secs. 201–205, 208, 215, 218, 313, 314, 403, 410, 602, 48 Stat., as amended 1070–1072, 1073, 1076, 1077, 1087, 1094, 1099, 1102 47; U.S.C. 201–205, 208, 215, 218, 313, 314, 403, 410, 602)

[54 FR 1699, Jan. 17, 1989]

§ 2.1302 Application for registration under part 68.

An original application for registration and one copy shall be filed on FCC Form 730 by the party who will be responsible for the conformance of the equipment with the standards specified in part 68 of this chapter and shall include the information specified by the form and in § 68.200 of this chapter.

(Secs. 201–205, 208, 215, 218, 313, 314, 403, 410, 602, 48 Stat., as amended 1070–1072, 1073, 1076, 1077, 1087, 1094, 1099, 1102; 47 U.S.C. 201–205, 208, 215, 218, 313, 314, 403, 410, 602)

[41 FR 8048, Feb. 24, 1976, as amended at 61 FR 42386, Aug. 15, 1996]

EFFECTIVE DATE NOTE: At 61 FR 42386, Aug. 15, 1996, § 2.1302 was amended by removing the words “two copies” and adding in their place the words “one copy”, effective Nov. 13, 1996.

Subpart M—Advance Approval of Subscription TV Transmission Systems

ADVANCE APPROVAL PROCEDURE

§ 2.1400 Application for advance approval under part 73.

(a) An original application for advance approval of a subscription TV

(STV) system and one copy thereof must be filed by the party who will be responsible for the conformance of the system with the subscription TV standards specified in part 73 of the Rules. The application must include information to show that the system conforms to the requirements of § 73.644(b).

(b) Advance approval may be applied for and granted in accordance with and subject to the following conditions and limitations:

(1) A separate request for each different technical system must be made by the applicant in writing.

(2) The applicant must certify that the application was prepared by or under the direction of the applicant and that the facts set forth are true and correct to the best of the applicant’s knowledge and belief.

(3) The applicant must identify the technical system by a name or type number and define the system in terms of its technical characteristics; a functional block diagram must be included. In addition, a complete description of the encoded aural and visual baseband and transmitted signals and of the encoding equipment used by the applicant must be supplied. These descriptions must include equipment circuit diagrams and photographs, and diagrams or oscillographs of both baseband and transmitted aural and visual signal waveforms and of the signal basebands and occupied bandwidths. If aural subcarriers are to be used for transmitting aural portion of the subscription program, for decoder control, or for other purposes, a full description and specifications of the multiplex subcarrier signals and all modulation levels must be included.

(4) Preliminary test data must be submitted to show system capability with regard to compliance with the criteria set forth in § 73.644(b).

(5) The applicant must identify the specific requirements of §§ 73.682, 73.687 and 73.699 (Figures 6 and 7) from which the transmitted signal will normally deviate.

(6) The applicant must specify the method to be used in determining and maintaining the operating power of the transmitter if the procedures given in § 73.663 cannot be used due to suppression of the synchronizing pulses or for