

**SUGGESTED EDITS TO FCC'S PROPOSED**  
**AMENDMENT OF PART 15 ON USE OF**  
**WIRELESS AUDIO DEVICES**  
**(FNPRM in WT Docket No. 08-166; FCC 10-16; rel. 1/15/2010)**

**APPENDIX E**

**Proposed Rules**

Part 15 of Title 47 of the Code of Federal Regulations is proposed to be amended as follows:

1. The authority citation of Part 15 continues to read as follows:  
AUTHORITY: 47 U.S.C. 154, 302, 303, 304, 307, 336, and 544A.

2. Section 15.3 is revised by adding a new paragraph (hh) to read as follows:

**§ 15.3 Definitions.**

\* \* \* \* \*

(hh) *Wireless Audio Device*. An intentional radiator that is used to transmit voice, music or other audio material over a short distance. Transmissions may be either analog or digital. Data transmissions are not permitted except for short strings such as recognition codes necessary to ensure the functionality of a system. Transmission of audio material to the public switched telephone network and private and commercial wireless systems and networks is not permitted.

3. A new Section 15.238 added to read as follows:

**§ 15.238 Operation in the bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-698 MHz.**

(a) Operation under this section is limited to wireless audio devices as defined in § 15.3(hh).

(b) Operation is limited to locations removed from existing co-channel TV broadcast stations by not less than the following distances. See §73.609 for zone definitions.

(1) 54.000–72.000 MHz and 76.000–88.000 MHz:

Zone I 105 km (65 miles)

Zones II and III 129 km (80 miles)

(2) 174.000–216.000 MHz

Zone I 97 km (60 miles)

Zones II and III 129 km (80 miles)

(3) 470.000–608.000 MHz and 614.000–698.000 MHz.

All zones 113 km (70 miles)

(c) Specific frequency operation is required as follows.

(1) The frequency selection shall be offset from the upper or lower band limits by 25 kHz or an integral multiple thereof.

(2) One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

(3) The frequency tolerance of the carrier signal shall be maintained within +/- 0.005% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

(d) The unmodulated carrier power at the antenna input may not exceed 50 mW.

(e) The mean power of out-of-band emissions must comply with the following:

(1) On any frequency removed from the operating frequency by more than 50% and up to 100% of the authorized bandwidth: at least 25 dB.

(2) On any frequency removed from the operating frequency by more than 100% and up to 250% of the authorized bandwidth: at least 35 dB.

(3) On any frequency removed from the operating frequency by more than 250% of the authorized bandwidth:  $43 + 10 \log P$  dB where P is the mean output power in watts.

(f) Wireless audio devices used at a nuclear power plant for communications in support of plant operations are subject to the following additional terms and conditions:

(1) The unmodulated carrier power at the antenna input may not exceed 100 mW.

(2) Such devices shall only be operated within buildings that are inside the security perimeter of the nuclear power plant.

(3) Such devices are exempt from the television station co-channel separation requirements specified in paragraph (b) of this section.