

congestion on existing channels and is intended to improve the operation and convenience of cordless telephones, making it easier for consumers to obtain improved wireless access to telephone service.

**EFFECTIVE DATE:** June 5, 1995.

**FOR FURTHER INFORMATION CONTACT:** Anthony Serafini, Office of Engineering and Technology, (202) 776-1628.

**SUPPLEMENTARY INFORMATION:** This is a summary of the background to the Commission's *Report and Order*, in ET Docket 93-235, Adopted April 5, 1995 and released April 10, 1995. The complete *Report and Order* is available for inspection and copying during normal business hours in the FCC Reference Center (Room 239), 1919 M Street NW., Washington, DC, and also may be purchased from the Commission's duplication contractor, International Transcription Service, (202) 857-3800, 2100 M Street NW., Suite 140, Washington, DC 20037.

1. On August 20, 1992, the Personal Communications Section of the Telecommunications Industry Association (TIA) submitted a Petition for Rule Making (RM-8094) seeking additional frequencies for cordless telephones. TIA stated that additional cordless telephone channels are needed to relieve channel-crowding problems, due to the widespread popularity of these devices. TIA suggested that an additional 15 channel pairs using 30 frequencies near 44 and 49 MHz be made available for cordless telephone use.

2. On August 20, 1993, the Commission adopted a *Notice of Proposed Rule Making (Notice)*, 58 FR 51299 (October 1, 1993), in this proceeding. In the *Notice*, the Commission proposed to make available for cordless telephone use the additional 15 channel pairs suggested by TIA. These frequencies are currently allocated to the Private Land Mobile Radio Service (PLMRS). The Commission also proposed to require that cordless telephones operating on these new frequencies incorporate a mechanism for automatically monitoring and preventing activation on any occupied channel. The proposed frequencies in the 44 MHz band are used internally by TV receivers. The Commission therefore proposed to designate the lower frequencies near 44 MHz, for base units in order to minimize interference to TV receivers and not to require any specific pairing of frequencies. It further requested comment on certain other technical aspects associated with cordless telephone operation. Namely, it

requested comment on whether to continue to allow cordless telephone operating frequencies to be offset from the center of cordless telephone channels and whether 20 kHz is the appropriate bandwidth for operation on the new frequencies.

3. The commenting parties representing cordless telephone manufacturers agreed that there is a need for additional cordless telephone frequencies to relieve channel congestion. Some of these parties raised concerns with respect to specific technical requirements and implementation procedures. Other parties, generally representing land mobile and broadcast interest, expressed concern about potential interference problems and questioned the need for additional cordless telephone spectrum.

4. Based on these comments, the Commission adopted the *Report and Order* to allow new cordless telephone frequencies. Accordingly, it is ordered that Parts 15 and 90 of the Commission's rules are amended as specified below, effective 30 days after publication in the **Federal Register**. Furthermore, it is ordered that the Petitions for Reconsideration filed by the Telecommunications Industry Association and Uniden America Corporation in GEN Docket No. 89-626 are granted with regard to the offset channel rule. This action is taken pursuant to the authority contained in sections 4(i), 302, 303(e), 303(f), and 303(r) of the Communications Act of 1934, as amended.

**List of Subjects**

47 CFR Part 15

Communications equipment.

47 CFR Part 90

Communications equipment.

Federal Communications Commission.

**William F. Caton,**

*Acting Secretary.*

**Amendatory Text**

A. Title 47 of the Code of Federal Regulations, parts 15 and 90, as amended to read as follows:

**PART 15—RADIO FREQUENCY DEVICES**

1. The authority citation for part 15 continues to read as follows:

**Authority:** Secs. 4, 302, 303, 304, and 307 of the Communications Act of 1934, as amended, 47 U.S.C. 154, 302, 303, 304, and 307.

2. Section 15.233 is amended by revising the section heading and

paragraphs (b) and (d), to read as follows:

**§ 15.233 Operation within the bands 43.71–44.49 MHz, 46.60–46.98 MHz, 48.75–49.51 MHz and 49.66–50.0 MHz.**

\* \* \* \* \*

(b) An intentional radiator used as part of a cordless telephone system shall operate centered on one or more of the following frequency pairs, subject to the following conditions:

(1) Frequencies shall be paired as shown below, except that channel pairing for channels one through fifteen may be accomplished by pairing any of the fifteen base transmitter frequencies with any of the fifteen handset transmitter frequencies.

(2) Cordless telephones operating on channels one through fifteen must:

(i) Incorporate an automatic channel selection mechanism that will prevent establishment of a link on any occupied frequency; and

(ii) The box or an instruction manual which is included within the box which the individual cordless telephone is to be marketed shall contain information indicating that some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs; to minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR; and, if interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference. A statement describing the means and procedures used to achieve automatic channel selection shall be provided in any application for equipment authorization of a cordless telephone operating on channels one through fifteen.

Channel	Base transmitter (MHz)	Handset transmitter (MHz)
1 .....	43.720	48.760
2 .....	43.740	48.840
3 .....	43.820	48.860
4 .....	43.840	48.920
5 .....	43.920	49.020
6 .....	43.960	49.080
7 .....	44.120	49.100
8 .....	44.160	49.160
9 .....	44.180	49.200
10 .....	44.200	49.240
11 .....	44.320	49.280
12 .....	44.360	49.360
13 .....	44.400	49.400
14 .....	44.460	49.460
15 .....	44.480	49.500
16 .....	46.610	49.670
17 .....	46.630	49.845
18 .....	46.670	49.860
19 .....	46.710	49.770
20 .....	46.730	49.875
21 .....	46.770	49.830
22 .....	46.830	49.890