

**CODE OF THE TOWN OF WEST HARTFORD, CONNECTICUT**  
v31 Updated 10-10-2002

PART II GENERAL LEGISLATION

Chapter 153, BUILDING SAFETY EQUIPMENT

§ 153-5. Radio amplification system. [Added 7-9-2002]

A. Use and occupancy.

(1) No building or structure shall be constructed, altered or changed in occupancy classification until such plans have been reviewed by the Fire Marshal for compliance with the requirements contained in this section.

(2) Except as otherwise provided, no person shall erect, construct, change the use of, or construct an addition of more than 50% in gross floor area to any building or structure of Type I or Type II construction which exceeds 10,000 square feet in gross floor area, including any portions thereof which may be located below grade, which fails to support adequate radio coverage. For the purposes of this section, the term "building" shall be construed to include parking structures and stairwells. The term "adequate radio coverage" shall be construed to include all of the following:

(a) A minimum signal strength of one microvolt (-107 dBm) available in 95% of the area of each floor of the building, including areas below grade if applicable, when transmitted from the Town of West Hartford Emergency Reporting Center;

(b) A minimum signal strength of one microvolt (-107 dBm) received at the Town of West Hanford Emergency Reporting Center when transmitted from 95% of the area of each floor of the building;

(c) The frequency range between 850 and 870 MHz must be supported: and

(d) A one-hundred-percent reliability factor.

B. Amplification system required.

(1) Buildings and structures subject to the requirements of this section which do not provide adequate radio coverage shall be equipped with an internal multiple antenna system with FCC type-accepted bidirectional 800 MHz amplifiers as necessary to achieve adequate radio coverage.

(2) If any part of the installed system or systems contains an electrically powered component, the system shall be capable of operating on an independent battery

and/or generator system for a period of at least 12 hours without external power input. The battery system shall automatically charge in the presence of an external power input. The amplification system, if powered, will be monitored by the building fire alarm system. If the system shifts to auxiliary power as stated above, the building fire alarm system will indicate trouble for that dedicated zone.

(3) Any person who constructs or develops a commercial or industrial building or structure shall provide two raceways within the walls into which the cable needed to support a multiple antenna system could be laid. Such raceways shall include an opening in the roof which allows for installation or replacement of an exterior antenna and shall include access to each floor.

#### C. Testing procedures.

(1) Acceptance test procedure.

(a) Upon completion of the installation of an in-building radio system required pursuant to Subsection B of this section, the building owner shall have said radio system tested in the manner described herein to ensure that overall two-way coverage within the building, including all areas located below grade, is a minimum of 95%.