

Village of Schaumburg, Illinois

TITLE 9: GENERAL REGULATIONS

CHAPTER 108: PUBLIC SAFETY RADIO AMPLIFICATION SYSTEMS

§ 108.01 RADIO COVERAGE.

Except as otherwise provided, no person shall erect, construct, maintain or modify any building or structure or any part thereof, or cause the same to be done which fails to support adequate radio coverage for village public safety services, including but not limited to police, fire, and public works departments. A certificate of occupancy may not be issued for any building or structure which fails to comply with this requirement.

The frequency range which must be supported shall be 806 to 816 MHz and 856 to 866 MHz, or as otherwise established and required in writing by the village as being necessary for public safety purposes.

For purposes of this ordinance, adequate radio coverage shall include the following:

(1) A minimum signal level of DAQ 3 (Delivered Audio Quality 3) available in 95% of the area as agreed to be in the coverage acceptance test plan by the village and the radio system manufacturer prior to system testing.

§ 108.02 AMPLIFICATION SYSTEM ALLOWED.

Buildings and structures shall be equipped with any of the following, in order to achieve adequate radio coverage:

(1) A radiating cable system or

(2) An internal multiple antenna system with FCC Type Accepted Bi-Directional UHF Amplifiers as needed to encompass the frequency range stated above or frequency range subsequently established by the village.

(3) A system that has been approved by the village as being capable of providing amplification to meet this ordinance requirements.

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 external power input. There shall be no connectivity between the amplification system and fire alarm system.

§ 108.03 OWNER RESPONSIBILITY.

It shall be the responsibility of any owner of a building or structure which currently holds a certificate of occupancy or allows the building or structure to be used for any purpose other than construction, to be in compliance with this chapter upon its effective date.

§ 108.04 INADEQUATE RADIO COVERAGE.

Any building or structure which fails to support adequate radio coverage must have a plan acceptable to the village police department within 90 days by the owner or his agent to address the inadequate radio coverage. Review of the plan may be extended by the director of police.

The owner of the building or structure shall have the approved plan enacted within one year after approval of the plan.

§ 108.05 ACCEPTANCE TEST PROCEDURES.

Acceptance testing for an in-building radio amplification system is required, upon completion of installation of the system. It is the building owner's responsibility to have the radio system tested to ensure that two-way coverage on each floor of the building is a minimum of DAQ 3.

Each floor of the building shall be divided into a grid of approximately forty equal areas. A maximum of two nonadjacent areas will be allowed to fail the test. In the event that three of the areas fail the test, in order to be more statistically accurate the floor may be divided into eighty equal areas. In such event, a maximum of four nonadjacent areas will be allowed to fail the test. After the eighty area tests, if the system continues to fail the building owner shall repair, replace, alter or upgrade the system altered to meet the DAQ 3 coverage requirement. Talk back testing from site to Village of Schaumburg Communications Center shall use a two watt portable transceiver with speaker/microphone and flexible antenna. A spot located approximately in the center of a grid area will be selected for the test, then the radio will be keyed to verify two-way communication to and from the outside of the building. Once the spot has been selected, use of another spot within the grid area will not be permitted. Field strength testing instruments are to be recently calibrated (within the past 12 months) and of the frequency selective type incorporating a flexible antenna similar to the ones used on the hand held transceivers.

The gain values of all amplifiers shall be measured and the results kept on file with the building owner so that the measurements can be verified each year during the annual tests. In the event that the measurement results become lost, the building owner will be required to rerun the acceptance test to reestablish the gain values.

§ 108.06 ANNUAL TESTS.

When an in-building radio system is installed, the building owner shall test all active components of the system including but not limited to amplifier, the power supplies, and back-up batteries, a minimum of once every 12 months. Amplifiers shall be tested to ensure that the gain is the same as it was upon initial installation and acceptance. Back-up batteries and power supplies shall be tested under load for a period of one hour to verify that they will operate during an actual power outage. All other active components shall be checked to determine that they are operating within the manufacturers specifications for the intended purpose.

§ 108.07 FIVE YEAR TEST.

In addition to the annual test, the building owner shall perform a radio coverage test a minimum of once every five years to ensure that the radio system continues to meet the requirements of the original acceptance. The procedure set forth above shall apply to such tests.

§ 108.08 QUALIFICATIONS OF TESTING PERSONNEL.

All tests shall be conducted, documented, and signed by a person in possession of a current FCC general radiotelephone operator license. All test records shall be retained at the inspected premises by the building owner and a copy submitted to the Village of Schaumburg within 30 days of when the test has been conducted. In the event the test shall fail to comply with the minimum requirements of the village, appropriate repairs shall be made and additional tests conducted until tests meet the minimum requirements of the village.

§ 108.09 INSPECTIONS.

Village personnel, after providing reasonable notice to the owner or his representative, shall have the right to enter onto the property to conduct field testing to be certain that the require level of radio coverage is present.

§ 108.10 PROPERTY OWNER MAINTENANCE RESPONSIBILITIES.

Upon completion of all the tests to the minimum standards of the village, the property owner shall be responsible for maintenance of the system. A maintenance contract shall be provided the village department of police with name of contractor, who will supply a 24-hour, 7-day emergency response within 2 hours after notification by either the village or the property owner. The maintenance contract shall also contain information as to contact personnel with phone numbers. Property owners shall also submit information to the village police department as to contact personnel with phone numbers for the property owner.

The property owner shall also be responsible for making any repairs,

replacement or upgrades to the systems as directed by the village police department, should the system fail or no longer work in the future.

§ 108.11 EXEMPTIONS.

This section shall not apply to buildings less than 5,000 square feet or any single-family detached residential dwelling or a multifamily building or structure less than 5,000 square feet.

§ 108.12 FAILURE TO COMPLY.

Failure to comply with this ordinance shall be grounds for the Director of Building and Code Enforcement to revoke any previously issued Certificate of Occupancy for the building or structure. A written appeal may be taken to the Village Manager regarding the revocation of the Certificate of Occupancy within 30 days of the revocation.

(Ord. 02-179, passed 12-10-02)
