



EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM STANDARD

Arcadia Fire Prevention Bureau
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Required applications for new construction

All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

Exceptions:

1. Where approved by the building official and the fire code official, a wired communication system in accordance with California Fire Code Section 907.2.13.2 shall be permitted to be installed or maintained in lieu of an approved radio coverage system.
2. Where it is determined by the fire code official that the radio coverage system is not needed.
3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

Required applications for existing construction

Emergency responder radio coverage in existing buildings. Existing buildings that do not have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communications systems of the jurisdiction at the exterior of the building, shall be equipped with such coverage according to one of the following:

1. Wherever an existing wired communication system cannot be repaired or is being replaced, or where not approved in accordance with California Fire Code Section 510.1, Exception 1.
2. Whenever total additions result in an increase of more than 5000 square feet in the total floor area, including mezzanines or additional stories, regardless of ownership. Additions shall be cumulative with each application for building permit from January 1, 2011.
3. Whenever the value of alterations requiring permits exceed \$500,000 in valuation. Alteration values shall be cumulative with each application for a building permit from January 1, 2011.

Required Radio Frequencies

The Arcadia Fire Department is a member of the Verdugo Communications System. The following frequencies shall be provided:

Subscriber Receive	Subscriber Transmit	Channel
470.0875	473.0875	P25 Phase 1, Phase 2 Capable
470.1375	473.1375	P25 Phase 1, Phase 2 Capable
470.2125	473.2125	P25 Phase 1, Phase 2 Capable
470.2625	473.2625	P25 Phase 1, Phase 2 Capable
470.3625	473.3625	XLC Access, Analog Conventional
482.0875	485.0875	P25 Phase 1, Phase 2 Capable
482.1375	485.1375	P25 Phase 1, Phase 2 Capable
482.1875	485.1875	P25 Phase 1, Phase 2 Capable
482.2375	485.2375	P25 Phase 1, Phase 2 Capable
482.2875	485.2875	P25 Phase 1, Phase 2 Capable
482.3375	485.3375	P25 Phase 1, Phase 2 Capable
482.3875	485.3875	P25 Phase 1, Phase 2 Capable
482.4375	485.4375	P25 Phase 1, Phase 2 Capable
482.4875	485.4875	P25 Phase 1, Phase 2 Capable
482.5375	485.5375	P25 Phase 1, Phase 2 Capable
482.5875	485.5875	P25 Phase 1, Phase 2 Capable
482.6375	485.6375	P25 Phase 1, Phase 2 Capable
484.1875	487.1875	P25 Phase 1, Phase 2 Capable
484.2625	487.2625	P25 Phase 1, Phase 2 Capable

Donor Site

Mount Thom, 34.187244⁰, -118.256267⁰, 749 meters AMSL

Subscriber Receive	Subscriber Transmit	Channel
507.5625	510.5625	APD Dispatch, Analog Conventional

Donor Site

Santa Anita Ridge, 34.187225⁰, -118.035214⁰, 1004 meters AMSL

Design and Test Requirements

A permit from the City shall be required prior to the installation of the system. All design and test requirements of California Fire Code (2022 edition) sections 510.4 and 510.5 shall be met.