



Building & Safety Division

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Antenna & Communication Components Guidelines

This document provides guidelines and requirements for adding and replacing antenna and communication equipment and components on existing monopole, building and building elements. Please note that this may not be applicable to all situations. Please contact the Building & Safety Division if you have any questions.

Electrical Requirements:

Antenna and communication components shall comply with Chapter 8 of the California Electrical Code (CEC).

Structural Requirements:

Modification to existing monopole:

1. Show the existing and proposed view/elevation side by side to clearly depict the proposed changes.
2. Provide the existing and proposed weight of the antenna/communication components.
3. If the weight of the new antenna or communication component is increased by more than 5% of the overall weight of all the antennas and communication components, submit structural calculation to justify the monopole and its foundation system is adequate with the additional weight.
4. Show the connection from the new antenna or communication component to the monopole. If the communication component is > 100 pounds, submit structural calculations to verify the connection to the monopole is adequate.
5. New associated communication equipment on the ground shall be anchored to the foundation. Submit structural calculations if the proposed equipment is over 400 lbs.
6. If the associated equipment is mounted on the building roof, floor, or elevated locations, the supporting member shall be checked for adequacy for all applicable loads.

Modification to existing building or building elements:

1. Show the existing and proposed view/elevation side by side to clearly depict the proposed changes.
2. If proposed components are added to the existing building or building element (parapet, etc.), clearly show the connection from the new antenna or communication components to the building or building element.
3. Provide the existing and proposed weight of the antenna/communication components.
4. New associated communication equipment on the ground shall be anchored to the foundation. Submit structural calculations if the equipment is over 400 lbs.
5. If the associated equipment is mounted on the building roof, floor, or elevated locations, the supporting members shall be checked for adequacy for all applicable loads. Submit structural calculations if the equipment is over 400 lbs.