



Division of Hotels and Restaurants
Bureau of Elevator Safety

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Emergency Responder Two Way Radio Communications Antenna Installation Requirements

ANY WORK DETAILED BELOW REQUIRES THAT A VARIANCE FIRST BE ISSUED AND POSTED ON-SITE, ALONG WITH A PERMIT TO ALTER THE ELEVATOR HOISTWAY

Petitioner shall install a permanent plate on or at the controller stating: "A permanent variance has been granted. A copy of this variance is provided with the MCP On-Site Documentation and Permanent Records."

The antenna is dedicated to elevator communication (radios inside the elevator) and is not utilized by any other part of the building or improves the performance of any communication device outside the elevator.

The antenna must be a passive device with no voltage applied to it.

The antenna, cabling and signal(s) shall not interfere with the elevator's performance, movement, controls, or communications.

The antenna(s) is/are to be located as follows:

- a. Pit:** In the area just above, below or at floor level free from contact with the elevator and reachable standing or kneeling on the pit floor
- b. Overhead/ Top floor:** In the area just above or at the floor level, or in the overhead area, free from contact with the elevator and reachable from a standing or kneeling position on the car top
- c. Intermediate floors:** Require a separate variance from the Bureau

Access openings or panels in accordance with 2.7.3.4.7; 2.7.5.1.4, 2.14.2.2(g) and 2.26.2.35 are permitted.

Plenum Cables and any additional feeders and wiring must only enter the hoistway through the wall at the antenna location. No cables or wiring may span any length of the hoistway interior.

Cable connections, conduit, duct, and junction boxes are prohibited in the shaft.

All hoistway wall penetrations are to be done in accordance with FBC, Building, 714-Wall Penetrations.

All service points are to be outside the elevator hoistway.

The use of a ladder inside of the hoistway to access antennas is strictly prohibited.

No work installing, maintaining, or testing of the antenna(s) that requires bodily entry into the elevator shaft/hoistway shall be performed without direct supervision as by a Florida Registered Elevator Company (REC) and Certified Elevator Technicians (CET/CC).

All necessary installation work is done in accordance with NFPA 72; NFPA 1221; UL 2524; NFPA 70; along with any pertinent additional provisions in applicable EN, ISO, UL, FCC, NEMA, State and Local Codes.

Confer with the Elevator Installer and provide the necessary documentation required for the Maintenance Control Programs for each unit.

Installation must be in strict compliance with the requirements/stipulations contained in the Variance approval.

Compliance will be verified by site inspection completed by Bureau of Elevator Safety Inspectors.

No modifications to the installation that deviate from the approved Variance will be accepted.

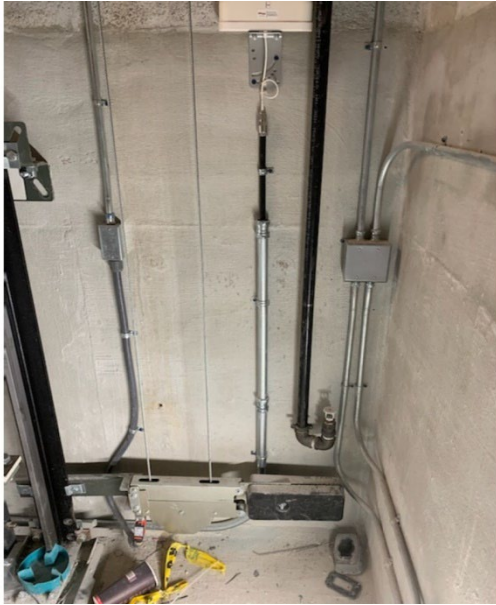
Any previously installed work that does not meet Florida standards as established in the intended Final Order for Variance will need to be removed and redone.

SAMPLE INSTALLATIONS

(Yagi style antenna)

Where plenum or conduit is provided through the pit wall at construction:

(Applies to new construction)



Where conduit or antenna cable is directed through wall at lowest landing:

(Applies to both new and existing installations where no plenum is provided at construction)



SAME INSTALLATION METHODS ARE TO BE USED FOR OVERHEAD ANTENNA.