



**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 by the controller stating: “A permanent variance has been granted. A copy of this variance is permanently affixed in the control space.”

The antenna must be dedicated solely to elevator communication (inside the elevator) and may not be utilized by any other part of the building, nor improve 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) must not interfere with the elevator’s performance, movement, controls, or communications.

The antenna must be located in the pit area just below or at floor level; in the top landing area just above floor level; or in the overhead within reach of the car top and free from contact with the elevator while in any position in the hoistway.

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.

Cable connections and junction boxes are prohibited in the shaft.

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

All service points must be outside the elevator hoistway.

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

All necessary installation work must be 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.