



## **Emergency Responder Radio Coverage Systems (ERRCS) within Commercial Buildings**

### **Standard**

2015 International Fire Code & Commentary, Section 510

### **Practice**

**The purpose of this standard is to provide consistent requirements for Emergency Responder Radio Coverage System in commercial buildings and ensure their successful interaction with the Public Safety Communications System.**

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 system of the jurisdiction at the exterior of the building. This standard shall not require improvements of the existing public safety communication system.

Testing for *approved* radio coverage shall be the responsibility of the building owner on commercial buildings meeting any of the following conditions:

- a. *The total building is 50,000 square feet or more*
- b. *Buildings with one or more basements*
- c. *Buildings with below grade building levels*
- d. *Underground buildings*
- e. *Buildings with five or more stories in height*

Any building tested when the shell is complete and the building is fully enclosed that does not meet the signal strength requirements of **IFC, Section 510.4.1 thru 510.4.1.2** shall require an ERRCS. The ERRCS will only be required for the specific areas and required jurisdictional frequencies that are determined deficient as described in **IFC, Section 510.1 and 510.4.2.2.**

Due to special circumstance including but not limited to construction type and materials, shadowing from other buildings or terrain, location and size of the structure, the Fire Code Official retains the authority to require signal strength testing of any structure by the building owner to ensure the presence of *approved* radio coverage. The requirement of an ERRCS shall be based on results of the signal strength testing as defined in **IFC, Section 510, Emergency Responder Radio Coverage.**