

Public Safety Emergency Responder Communication Enhancement Systems (ERCES) Requirements

- A spectrum analyzer must be used to test radio signal strengths within the building
- Radio frequency must be 853.825
- Signals must be a minimum strength of -95 dBm
- Coverage must be at least 95%
- Additional critical areas required to be tested include: elevator lobbies, all building systems equipment rooms, exit passageways, fire alarm control panel rooms, fire command centers, fire pump rooms, sprinkler riser rooms, sprinkler sectional valve locations, stairwells, and at standpipe cabinets.
- Testing areas to be broken into approximately 20 equal grids
- No more than two adjacent areas may fail the spectrum analysis
- Test must be conducted in the center of each area
- Building must be completed with furniture/stock installed prior to testing
- Public Safety radio boosters must be approved, certified, and registered with the FCC and St. Louis County ECC.
- Minimum system designer and installer qualifications include: valid FCC-issued general radio operators license and certification of in-building system training issued by a nationally recognized organization, school, or a certificate issued by the manufacturer of the equipment being installed.
- Plans must be signed/sealed by an engineer.
- The system must be maintained 24-7-365 and shall be inspected annually along with sprinkler and fire alarm systems. During annual inspection, testing of the boosters, gain, batteries, and power supplies must take place as well as testing of all active components.