

BRIDGING THE COMMUNICATION GAP

Public Safety Radio Coverage Testing

Ensuring Life Safety Compliance and Seamless First Responder Connectivity

Bill Allen | Regional Manager
704-372-3444



The Hidden Threat: Signal Blockage

The Problem

Modern building materials like Low-E glass, reinforced concrete, and thick steel effectively block public safety radio signals.

The Risk

In an emergency, first responders inside your building lose communication with dispatch and team members outside.

The Cost

Communication failure can lead to catastrophic delays, tragic injuries, and massive operational liability.



The Legal Mandate (The 'Why Now?')

Strict Codes

NFPA 1221 and IFC Section 510 mandate that buildings must maintain a minimum signal strength (typically -95 dBm) across 95% of each floor.

Certificate of Occupancy (CO)

New buildings will be outright denied their CO if they fail initial radio coverage testing.

Annual Mandates

Existing buildings are increasingly required to perform mandatory annual testing to maintain legal code compliance.



Our Testing Solution: The 'Walk Test'

Grid Methodology

We divide your floor plans into a standard multi-grid layout as strictly required by your local fire code.

Advanced Equipment

Technicians map the building on foot using calibrated, industry-grade RF scanners and spectrum telemetry.

Key Data Collected

We measure both baseline signal strength (RSRP/RSSI) and audio signal quality (SINR/DAQ).



Clear, Actionable Deliverables

AHJ-Ready Reports

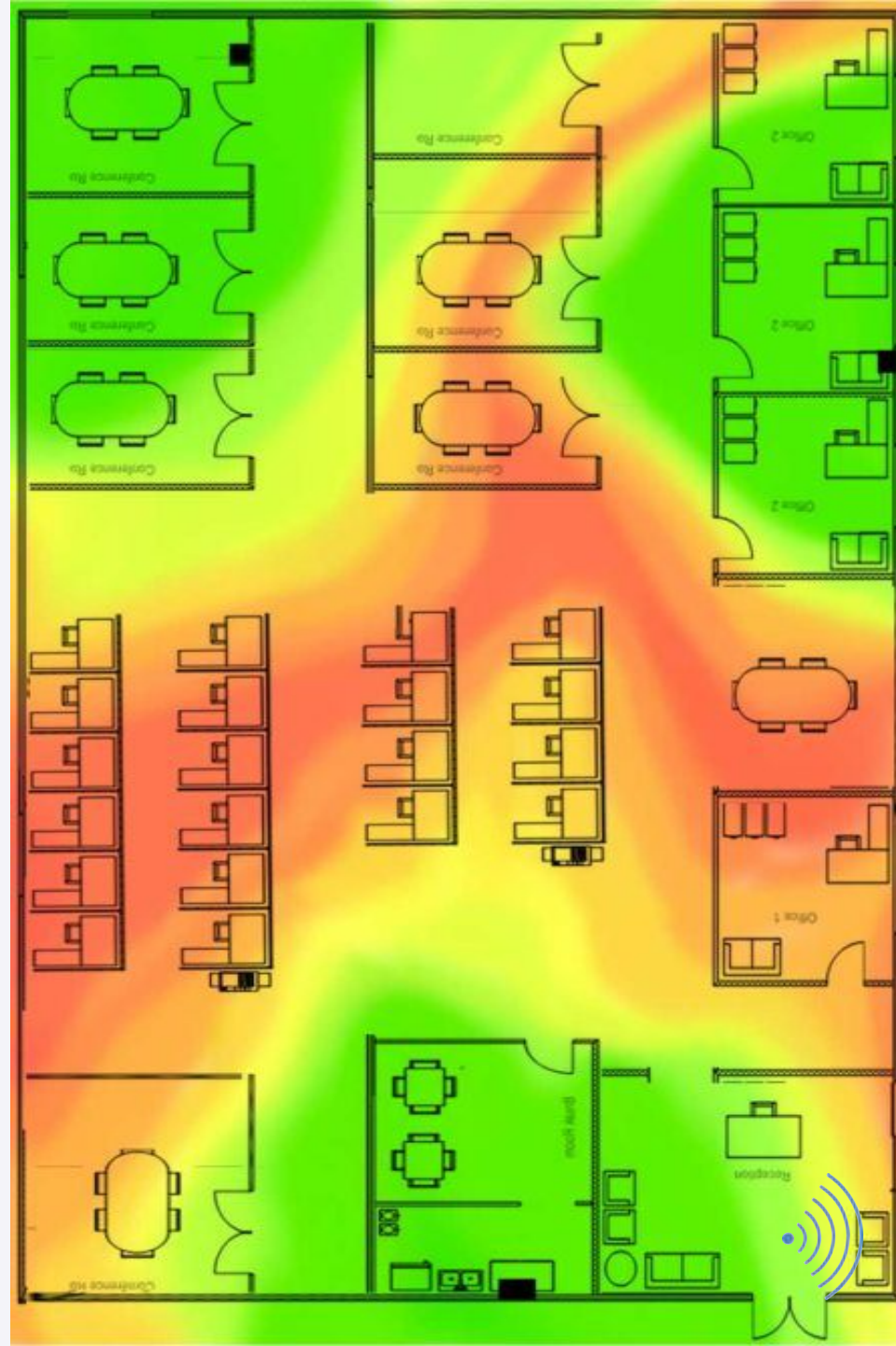
You receive a comprehensive, certified report ready to hand directly to your local Fire Marshal.

RF Heat Maps

Visual, color-coded floor plan data clearly highlighting your building's strong zones and critical dead spots.

Next-Step Roadmap

If your building passes, you are certified. If it fails, we provide the exact engineering data required to fix it.



What Happens If You Fail? (Remediation)

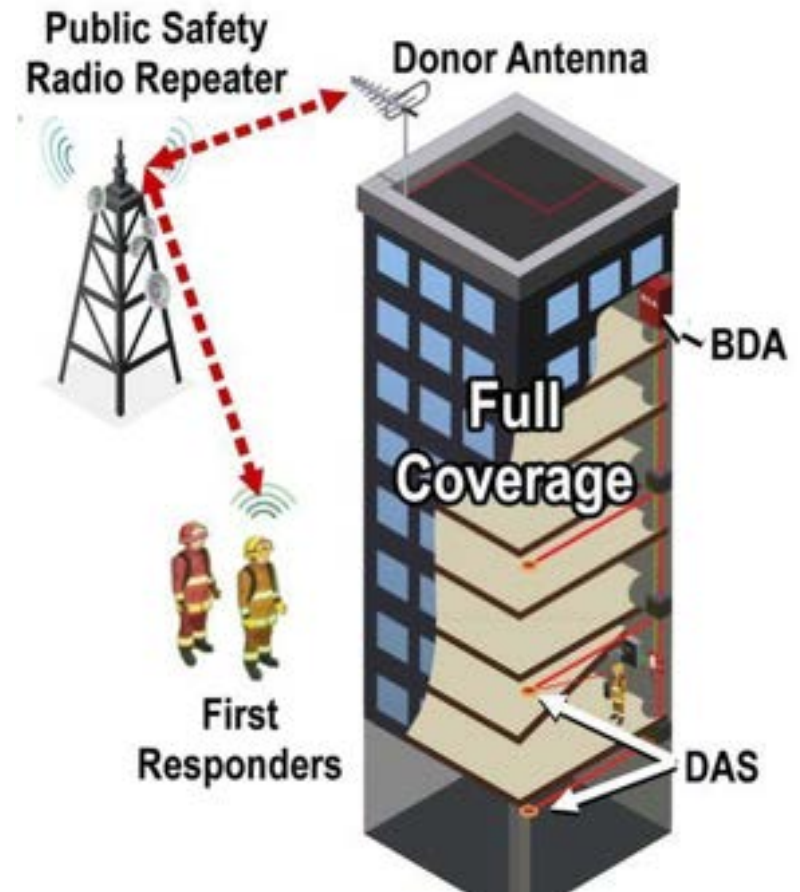
Targeted Remediation Empirical testing identifies exactly if and where you need to budget for signal-boosting hardware.

BDA & DAS Solutions

If required, we design code-compliant Bi-Directional Amplifiers (BDA) and Distributed Antenna Systems (DAS) to safely broadcast signals indoors.

Turnkey Process

We handle everything from initial benchmark testing to final system validation, engineering, and official sign-off.



Why Choose Our Team?

Certified Expertise

Our engineering team holds valid FCC General Radiotelephone Operator Licenses (GROL) and manufacturer certifications.

Local AHJ Relationships

We deeply understand the specific, nuanced testing criteria required by your local fire departments.

Precision Tools

We use only calibrated, high-end spectrum analyzers to ensure fully credible, legally binding results.

Here Are Your Next steps..

1. **Contact us to get your estimate**
2. **Provide us with a digital copy of the building blueprints and location of build**



NEXT STEPS TO COMPLIANCE

1. Schedule Your Benchmark Test: Establish your building's baseline coverage.
2. Receive the Map & Analysis: Review your visual heat maps and compliance status.
3. Secure Your Certification: Submit the report to your AHJ or quickly remediate problem areas.

Contact us today to secure your building's safety certification.

Bill Allen, Two Way Radio Regional Manager
704-372-3444