

## Lee County Public Safety Florida

### Retransmission Compliance Test Process & Requirements

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Lee County Public Safety will send a technician on-site of the booster. The on-site technician will not be able to touch the equipment at the site so when testing is scheduled be certain that someone is on-site to turn on and off the booster as well as make minor adjustments, if necessary.

#### **Baseline**

The on-site technician will ensure that the booster is powered off. A second technician at the radio (RF) site most likely affected (in case an omnidirectional donor antenna, the nearest Public Safety site or with non-omnidirectional donor antenna, nearest site and in line with the directional azimuth of the antenna) will then monitor and capture an averaged ambient noise floor reading.

#### **System On**

The on-site technician will ensure that the booster is powered on. The technician at the RF site will then monitor and capture an averaged and ambient noise floor reading.

#### **System Transmitting**

The technician on-site will key their portable with a 0db gain antenna held at head level while directly underneath the closest inside antenna. The technician at the RF site will then monitor and capture an averaged and ambient noise floor reading.

#### **Minimum Standards**

- a. Booster cannot introduce any measureable (by average) and reproducible noise floor level above the Baseline ambient noise reading.
- b. Booster cannot generate any measureable and reproducible power level higher than -75dBm recorded at the RF site.
- c. Booster must be Phase 2 capable.

#### **Retransmission Authorization**

Lee County will not authorize retransmission of its licensed frequencies by a signal booster that does not meet these minimum standards. In the event of a test failure, Lee County will send a notice indicating the deficiencies identified in the test results. Applicant will be required to perform repairs or replacement of their system until satisfied that the components introducing noise interference in the system has been rectified. Applicant must then schedule for a retest of the system.

The FCC (CFR 47, FCC Part 90.219(c)) requires that Lee County either operate or explicitly authorize use of the distributed antennae systems used to achieve a minimum radio signal strength. When Lee County consents to operation of signal boosters by non-licensees (such as a building owner or a signal booster installation contractor) within our service contour and across our applicable frequencies, then we must maintain a reasonable level of control over these operations in order to resolve interference problems. The FCC also requires Lee County to enter the DAS into a nationwide registry.

For more information, contact [publicsafetyradio@leegov.com](mailto:publicsafetyradio@leegov.com).