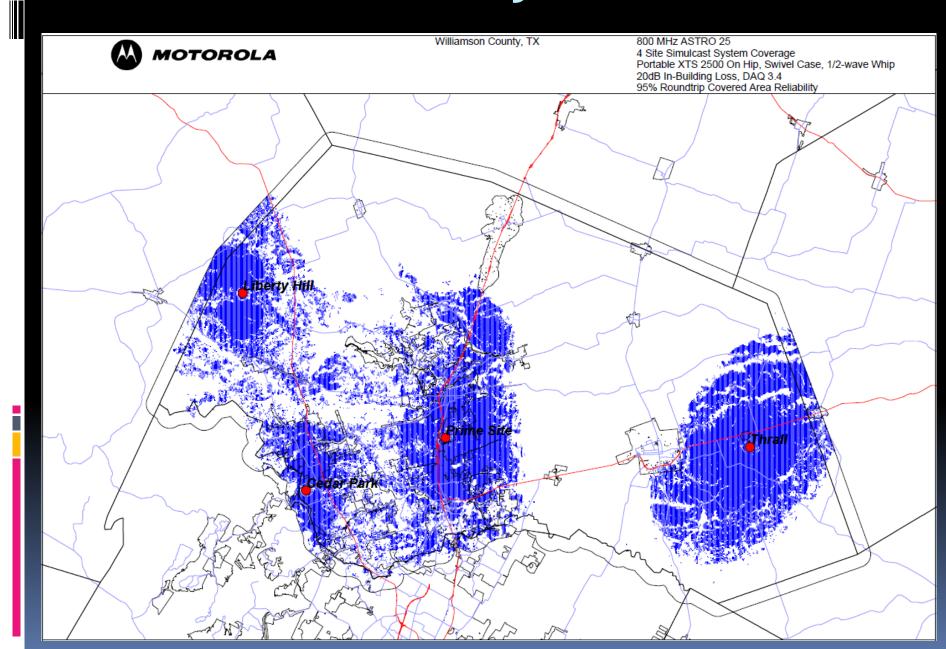
WILLIAMSON COUNTY EMERGENCY COMMUNICATIONS

RADIO TOWER SYSTEM PLAN-2011

Radio System History

- GT was the first 800MHz agency in WC- 1996
- WC & RR joined GT and created "CWICS"- 1997
- CP had built their own 800MHz system but joined CWICS in 2003
- By 2005, CWICS had four (4) radio tower sites Prime Site (GT), #2 (CP), #3 (LH), #4 (THR)
- The system was analog and nearing end-of-life
- VHF & UHF was still in use by multiple agencies
- Interoperability was difficult at best
- In-Building radio coverage was restricted to areas directly around tower sites

CWICS 4-Tower System 2005



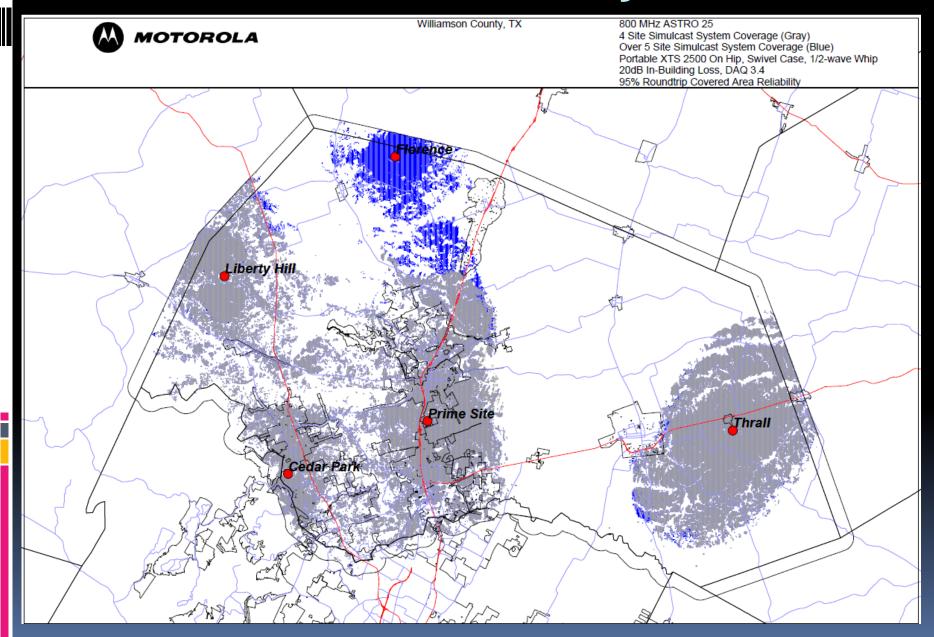
Radio System History

- WC partnered with the COA and applied for a DOJ grant to upgrade from analog to digital and created the Greater Austin-Travis County Regional Radio System "GATRRS"
- \$6M award- WC received \$5.5M and paid \$1.85M in matching funds
- Total Infrastructure Budget: \$7.35M
- Grant ONLY provided a 1:1 replacement of existing equipment. It did not cover enhancements, upgrades, or improving coverage
- Project successfully completed: January 22, 2008

Radio System History

- In addition to the \$1.85M matching funds, WC purchased \$4.2M of new digital field radios
- CWICS was dissolved and the WCRCS was created in 2008 following the digital conversion
- This ILA gave the county sole ownership of the system; but placed the burden of capital improvements on the county for all users
- The Florence area was known to have a coverage deficiency which the digital conversion would not resolve
- A temporary analog site was built in Florence to provide in-building coverage in 2009
- The new Florence digital site was completed in 2009 which corrected the coverage issues in that area

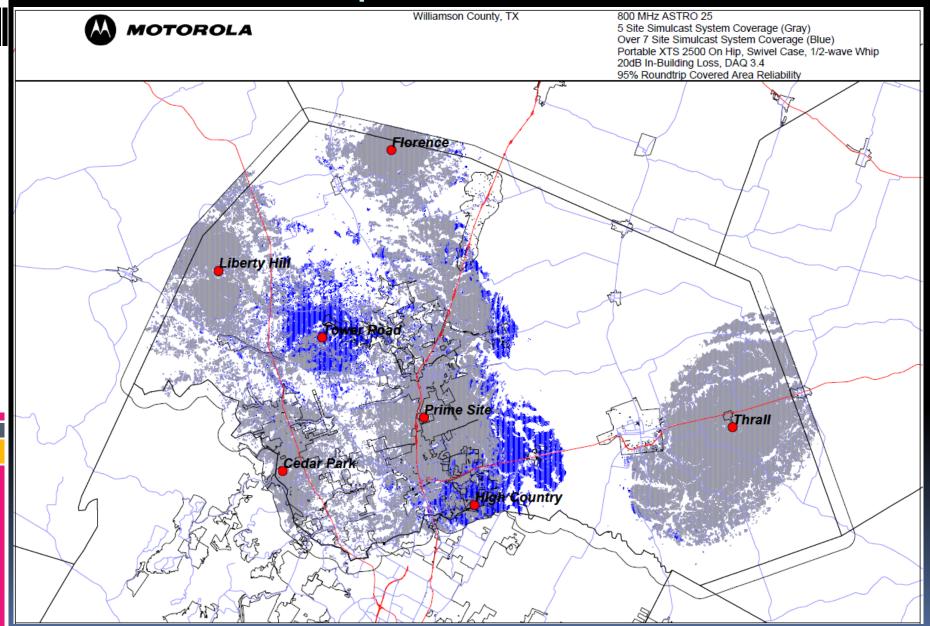
Current RCS 5-Tower System



Current System Status

- 5 Tower Sites do not provide adequate in-building coverage county-wide
- Several "dead spots" exist in open areas as well as on portable (hand-held) radios
- NW GT and SE RR were identified by many agencies and further proven with studies to need the additional radio tower coverage
- WC has negotiated and approved a 2-site contract for these two sites (GT site requires a lease)

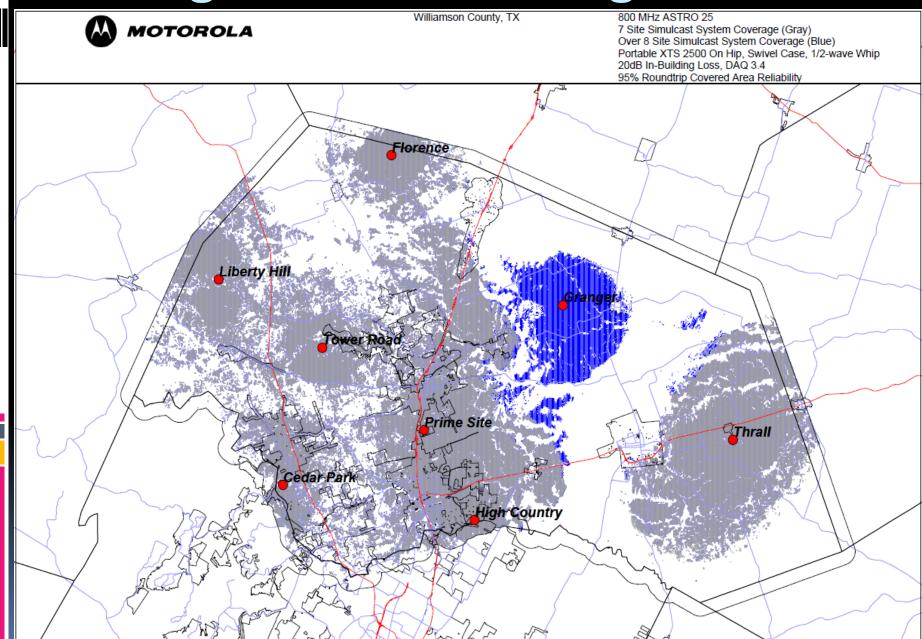
7-Site Proposal



Granger Site Proposal

- NE WC has a large "dead spot"
- An existing tower has been identified that is for sale
- WC has negotiated a purchase price and land lease for this property and tower
- Future development to full functionality is planned
- Lease is revenue neutral due to existing commercial customers on tower
- The Granger Tower completes the current tower projects under negotiation

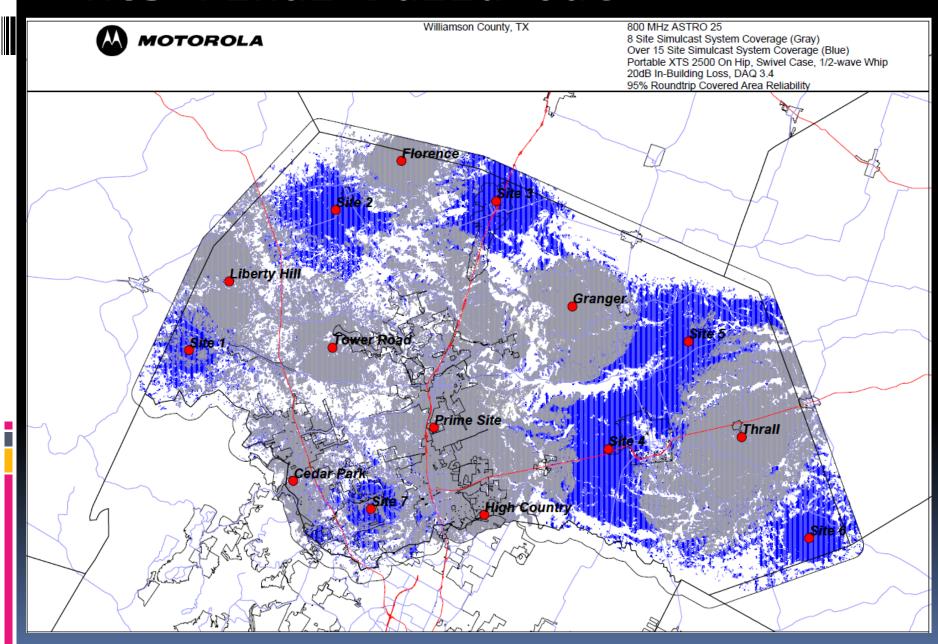
Granger Site Coverage



RCS Future Build-Out Plan

- Even after the three current towers are completed, there are many "dead spots" remaining where portable radio coverage is marginal or non-existent
- The complete build-out consists of adding 7 additional sites
- These could be a combination of built or leased sites based on availability and budget
- Final build-out calls for a total of 15 fully functional digital radio tower sites across the county
- In comparison, Travis County has 17 sites

RCS Final Build Out



RCS Final Build Out Summary

- The NW GT & SE RR sites have been identified as problem areas by field agencies and corroborated with engineering studies- they should be completed next according to the plan
- The Granger site is available now and should be purchased for future development- revenue neutral
- These 3 sites are already funded by an existing TAN with an executed Motorola contract in place- land lease approvals are all that is required to begin construction
- The additional 7 sites have not been prioritized for order of development- additional field and engineering studies will be performed in the future as construction growth continues across the county

RCS Final Build Out Summary

- Due to fiscal constraints, we may never have "100%" in-building coverage
- Out-of-vehicle or portable radio functionality is critical to the safety of all first responders
- However, with each new tower site, we reduce the risk factor to the public and our emergency service providers

Questions?

