

Joint City/County Commission TRS Update

March 12, 2018

Item #170908



TRS Discussion Components

- Upgrade
 - Core P25 installed in 2012, upgrade to meet subscriber capacity
- Coverage
 - Provide options to extend coverage levels to meet emerging subscriber needs
- Shadowing
 - Minimize shadowing in system planning
- In Building
 - statutes and ordinances should drive compliance with coverage issues inside structures
- Radio Purchases
 - Maintain non P25 trunking as possible
 - Other options (cellular, vendor neutral)

Estimates Requested by GRUCom

- Continue P25 implementation to subscriber capacity at five sites (Phifer, WYKS, Millhopper, GPD, High Springs)
- New P25 implementation to subscriber capacity at Austin-Cary
- Simulcast at Austin-Cary
- Radio study to identify options for taking coverage level to 95% coverage using a Portable radio with shoulder-mounted antenna in light building inside Alachua County
- Simulcast at each potential new site
- Cell phone app for non-critical users

Developments

- Issued LOI to Motorola for P25 upgrade for existing towers 6-28-17
- Assigned a SOW for Federal Engineering Implementation Support 10-4-17
- Executed Motorola Communications System Agreement 11-18-17

GRUCom P25 Project Update

Motorola P25 upgrade contract executed

- Motorola project team assigned
- Upgrade design review meeting held 1/25/18

Upgrade design

- Upgrade of core from 7.11 to 7.16
- Expand P25 system to 13 channels
- Add simulcast site at Waldo/Austin Cary
- Retain 9 SZ mixed mode channels for transition

Key items

- Identify site upgrades needed for Waldo/Austin Cary
- Identify subscriber upgrade/programming timelines
- First potential system impacts begin in March/April

TRS P25 Upgrade Design

Upgrade design

- Upgrade of core from 7.11 to 7.16
- Expand P25 system to 13 channels
- Add simulcast site at Waldo/Austin Cary
- Retain 9 SZ mixed mode channels for transition
- All antenna system components replaced
- New or upgraded core system components
- New Nice logging recorders
- 800 MHz national mutual aid system updated

Key Infrastructure Dates/Impacts

March – April
2018

- Action: Antenna system replacements
- Expected System Impacts: **Reduced capacity/reduced coverage**

April – May
2018

- Action: Install new core/radio equipment
- Expected System Impacts: Minimal

May 2018

- Action: Master site upgrade, 7.11-7.16
- Expected System Impacts: **Brief periods of site trunking, console upgrades**

Key Infrastructure Dates/Impacts

June – July
2018

- Action: System optimizations
- Expected System Impacts: Minimal

July –
August 2018

- Action: Coverage/Acceptance Tests
- Expected System Impacts: Minimal

August –
Sept. 2018

- Action: Cutover to 13 channel P25 system
- Expected System Impacts: Reduction in # of SZ (legacy) channels (down to 9)