

October 16, 2014

# Recommendations to the Task Force from The UCA Board

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# UCA Board Recommendations

- State Wide VHF system:
  - Continue to Maintain and upgrade the 150Mhz system as necessary near term.
  - 150Mhz will continue to function during the build out of 800
  - Continue the interface with LG systems
  - When new system is completed revisit the future of VHF operations

# Radio Dispatch Consoles

- Consider the Consoles as an integral part of the procurement process
  - They have become a component part of the network
  - Help us maintain the security of the network
  - Common software in the computers and regular anti-virus updates
  - Keep the computers updated
  - Maintenance: responsibility of the Agency
  - Build in a Growth factor for additional consoles
  - Repair contracts: in house or Vendor

# Coverage Maps

- Assemble a mosaic of coverage Maps to predict where we have service with where we need it
  - This is a critical part of the detailed design process
  - Use Existing facilities where possible
  - Reduce the need for new construction
  - Work with Locals to share sites
  - Use the best mix of sites to improve coverage

# Supporting Infrastructure

- Review Infrastructure Needs for entire state
  - Buildings, Towers, Site Upgrades, Tower Upgrades
  - Power supplies, Batteries, Generators
  - Evaluate: Microwave, Fiber, Copper or other technologies available for connectivity
  - Network needs to be “Public Safety” grade service with a predetermined reliability factor of 99.9999% wherever possible
  - Connectivity will grow to include a broad array of services including: High speed data, NG911, Radio and Dispatch connectivity

# 800 Radio System

- The Radio system will be designed to build a P25 phase 2 system where economically feasible.
  - Phase 1 could be utilized in specific places
  - Conventional Radio could be used in Rural locations
  - Will include 700 and 800 frequencies
  - Maintain patch capabilities to VHF to all PSAPS
  - DO THE PROJECT IN MANAGABLE PHASES retaining use of existing system until new system is completed
  - This is going to take some time!!

# Maintenance

- First year maintenance will be provided during the warranty period by the vendor, after that:
  - Keep in house maintenance, immediate response/24 hour on call
  - TRAINING for the Techs
  - New test equipment to purchase

# OVERBUILD

- UCA recommends a P25 overbuild of the current system in the SL Valley
  - Test the coverage of P25 and compare existing to new
  - Learn the nuances of the new system
  - Test the operability of multiple vendor radios on the system: Varied prices for user devices
  - Test system can be expanded as we move forward to integrate into the new network
  - Test VHF interoperability with digital system
  - Digital sounds different

# Migration Plan

- UCA recommends picking a rural area of the state as the initial migration point when funded.
  - Controlled migration with a smaller population base and user counts of radios
  - Migration would have scheduled dates for engineering, installation, subscriber units upgrades and interoperability

# User Equipment

- UCA recommends addressing the User device issue up front
  - The key to migration will be changing out the user devices
  - Is there an incentive to move?
  - What are the options?

# Interoperability

- UCA will be the leader in interoperability by continuing to work with all PS Agencies even if they do not use the system.
  - GOAL: Support all first responders across the state
  - PSAPS are locally managed and controlled but connectivity to the network(s) should be universal across the state

# Alarm System

- The new system will need a alarm system covering all network components.
  - Report system problems and outages
  - Notifies the Technicians on their laptops, tablets and smart phones of system problems
  - Allows remote dial in access from home or a mountain top site

# Training

- UCA supports user training for operation of the system.
- We need to consider a formal process and some funding to do it.

# Operations and Maintenance

- UCA realizes that funding could be provided for the capital acquisition of the network equipment.
  - There is a continued cost to support the network: site leases, network costs from private providers, licensing, parts, supplies, power and utilities, and labor. While these are funded by user fees or sale of services today, those costs *will not* go away.
  - Future funding needs to consider OPS and Maintenance costs

# User Fees

- UCA recommends that future funding models are developed to support network operations maintenance and growth with minimum of user fees

# Questions or Comments

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