October 16, 2014

Presentation to the Legislative Task Force

Consolidation efforts

- Personnel
- Vehicles
- UCA Board Meeting
- Radio Systems: 150 and 800 MHz
- Infrastructure
- New Projects
- 911 Committee
- SIEC Committee
- Firstnet

UCA Board

- UCA Board has met July, August and September.
- Average attendance has been 20+ out of the 25 members. Major Issues to date:
  - New Members Getting an understanding of UCA
  - By-Laws (Final Draft for approval this month)
  - Top Priorities for UCA, near term and long term
  - CAD to CAD interface project
  - Recommendations to Task Force
  - Update Administrative Rules-911 Committee
  - First election of officers in January 2015

Personnel

- 26 Employees/24 Filled-Vacant: SIEC Coordinator and 1 Technician Position are vacant.
- Benefits, Retirement, Insurances all transferred-employees kept whole.
- Have interviewed 2/3 of the staff individually.
- Visited their work areas in rural Utah.
- Heard concerns and recommendations for improved services.
- Integration of Staff Positions/Operations: Jan 1, 2015
- Need to upgrade training on systems: Radio and IP Networks.
- Need to hire a SIEC Coordinator.

Administrative work

- Contract Assignments
- Power and Lease billings
- Grant Reassignments
- Taken over our payroll responsibly
- PO Process
- Work Ticket process development
- Web Site up grade to include all services
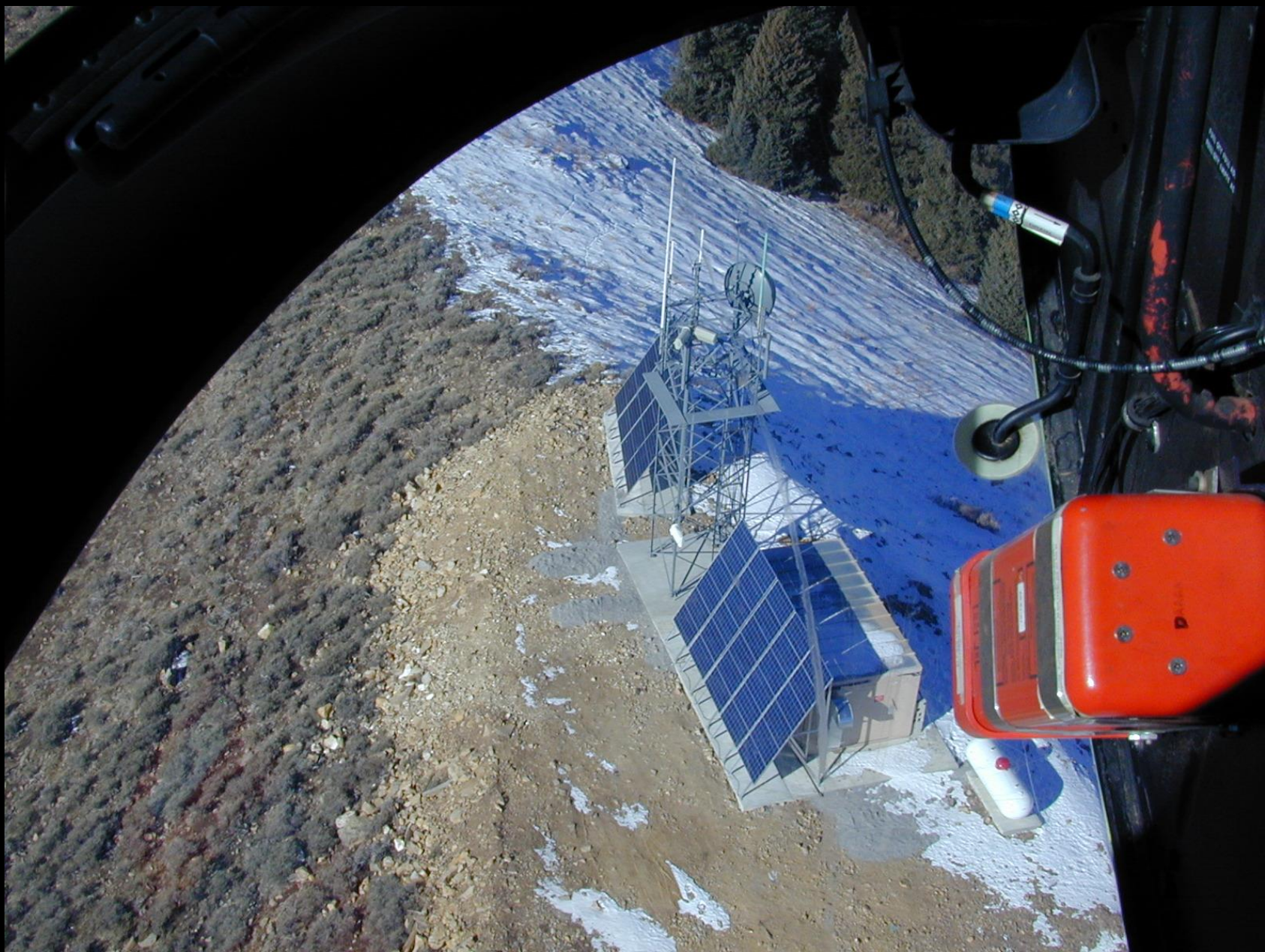
Vehicles

- 9 service vehicles and toppers have been received and distributed to the DTS Techs. Existing vehicles were turned into Fleet.

150 and 800MHz Radio Systems

- Continue to Support, maintain and manage the sites in both of these networks-example of activities:
  - Activities: Generator Maintenance, Weather proof the buildings, Make sure facilites are sealed and ready for winter
  - Fuel Sites for Winter
  - Maintenance on Antenna Systems
  - Solar Panel replacement-Strawberry Peak
  - Improve Grounding: Monroe Peak

Infrastructure

- GSL Marina Connecitivity
- Big Water Fish Hatchery Connectivity
- Beaver County Dispatch Circuit rerouted saving $1700/Month
- Kane County Connectivity in process: looking for best options

New Projects

- Acquired Francis Peak: Reorganize connectivity to reduce presence and improve relaibility
- 2 Additional Sites in Iron county for improved 800 Coverage-Looking for spots
- Price Dispatch Center Move-New building under construction requiring a tower move
- Dixie Regional Hospital: installed a BDA to improve coverage in the ER
- Added the 800 Channel to the HEAR system in Dixie Hospital

Francis Peak-Davis County

Iron Mountain- Cedar City

Site West of Kanarville south of Cedar City

New Tower Footer for Price Dispatch Center

911 Committee

- Cad to Cad Demonstration Project in process
  - TOC to Tooele County
  - Davis Co-Layton-Clearfield
  - Wasatch-Summit-Park City
- Equipment Upgrades: Richfield, Tooele PSAPS
- Several Maintenance Extensions for system maintenance
- ESINET bandwidth upgrade in process to include all PSAP Locations
- Updating Administrative Rules for 911 Committee
- Coordinating with BEMS on PSAP Qualifications

SIEC

- Transferring the State and Local Implementaion Grant (SLIGP) grant budget from DTS to UCA.
- $1.7M for Outreach and Education of the Firstnet Network and Process Going forward to potential users in Utah
- Continue to foster and develop Interoperability opportunities for Federal, State and Local Government
- Hire a SIEC Coordinator

First NET-November 6, 2014

BORADBAND SUB COMMITTEE in PLACE

Kevin Rose, Weber County
Barry Horsley, IT Manager. Carbon County
Bert Granberg, Director. State AGRC (GIS)
Bill Silver, Police Officer. Salt Lake City Police Department
Brent Atkinson, Captain. Unified Police Department/Salt Lake County Sheriff's Office
Bryan Low, IT Manager. Logan City
Chris Burbank, Chief. Salt Lake City Police Department
Doug Chandler, PMO. State of Utah DTS
Ed Frazier, IT Director. Layton City
Eric Parry, Program Manager. Utah 911 Committee
Forrest Roper, Chief Deputy. Millard County Sheriff's Office
Warren James, Battalion Chief. Unified Fire Authority
John Laursen, Chief Deputy. Uintah County Sheriff's Office
Justin Grenier, Operations Manager. St. George Police Department Communications
Kelleigh Cole, Program Manager. Utah Broadband Advisory Council
Lynne Yocom, Business Manager. State Department of Transportation
Paul Patrick, Director. Utah Bureau of Emergency Medical Services
Rick Bailey, Emergency Manager. Grand County
Shirley Silversmith, Director. Utah Department of Indian Affairs
Steve Proctor, Executive Director. Utah Communications Authority
Tamara Twitchell, Emergency Manager. Daggett County
Travis Sylvester, Planner. Utah Communications Authority

There will be 30 Slots available who Else needs to attend

Out Reach Efforts

- 6 Counties in Southern Utah: Kane, Garfield, Piute, Iron, Beaver, Washington
- Purpose: Review site locations, meet with Locals Do coverage Testing
  - Cost, cost, cost of the Service
  - Coverage: Remote areas, Federal Lands
  - There are holes in the VHF coverage that need correcting
  - A lot of across the border communications with Arizona
  - We love and rely on the technicians in Richfield, Price and Cedar
  - 911 Funds to locals are critical
  - "You are taking 911 Funding to build a radio system"
  - "You will never get this done" 800 won't work
  - Covering the "Monument" is impossible (Grand Staircase)
  - There is great concern/fear of "Consolidated Dispatch Centers"

Out Reach Continued

- Continued
  - Better 150 MHz Hand Held Coverage is needed
  - We have tested 800 coverage: its pretty good here, handheld coverage is needed
  - UHP Sergeant: We love the 800 system: wide area, Very positive, Wishes everyone was on it. Good Coordination thru Dispatch
  - There is a desire to not share sites with the TV translators locations-keep it separate
  - There was a lack of understanding about the UCA organization and its responsibilities
  - There was confusion about access to service from the local Radio Maintenance personnel since the change.

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Recommendations to the Task Force from The UCA Board

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 <u>locally managed</u> and <u>controlled</u> 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