Radio Projects Status
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Changes from last presentation are highlighted
Meets monthly.

Chaired by the Director of Operations

Commissioners from all involved County departments.

DOIT Radio Group is responsible for project management of all major radio projects:

- SICG3 (Microwave & VTAC)
- Radio systems replacement project
  - UHF Trunked System
  - F1/F3 Conventional System
  - VHF Low Band Paging System
Statewide Interoperable Communications Grant
SICG Round 3

**Funding:**
- NYS Division of Homeland Security and Emergency Services (DHSES)
- DES obtained award of $5,991,125.

**Scope:**
- Implement a microwave network as backup to fiber network. (Allow for system redundancy)
  - Funding and time limitations prevented microwave installation at several sites.
- Installed VTAC National Interoperability Channels. (multiple sites)
- Establish microwave link with Westchester, Rockland, Putnam, and Orange Counties (Future system capabilities)

**Current Status:**
- Equipment installed at all sites.
- Microwave links are in-service as hot standby to fiber network
  - Already provided system redundancy during a fiber failure.
- VTAC repeaters are active but not carrying traffic pending final acceptance testing.
- **Anticipated closeout is third quarter 2018.**
Microwave links not installed pending new Fox Lane Tower

Microwave links not installed pending new Dunwoodie Tower

Links will be added when tower sites become available.

Westchester County SICG 3 Project map as of:

Rev 7.0 12-07-15 Bob Wilson
Most County radio infrastructure will reach end of life by Dec. 2018. Includes:

- Fire/EMS/DOT UHF trunk system.
- 60 Control dispatch / paging system (including consoles).
- County Police dispatch and interop systems (F1/F3).
- Radio network portion of the Transportation CAD/AVL system.

Solution: County has negotiated a “Best Efforts” maintenance contract extension with Motorola until Dec 2019.
New Radio System
Near Term Challenges

* **T-Band (UHF) frequencies will be withdrawn in 2023.**
  * Used in 11 metropolitan areas nationwide.
  * Current federal law says all public safety users must vacate these frequencies.

* **Solution**
  * New York area first responder entities petitioned elected officials to change the law.
  * County Executive sent letters to elected officials to voice the County’s concerns about the loss of T-Band
  * Deputy County Executive spoke with representatives from the U.S. Department of Commerce conveying the same concerns
  * Replacement plan includes a potential move to 700 MHz (decision to be made in 2020)
  * **H.R. 5085 was introduced by Representatives Eliot Engel and Lee Zeldin on February 27, 2017. If enacted as drafted, the Act would repeal section 6103 in Title VI of P.L. 112-96 which would allow us to stay on T-Band**
VHF (Low Band) Paging system requires modernization and expansion.

- Limited availability of Low Band pagers and base station transmitters.
- Improve signal saturation locally.

Solution:

- Working with a consultant to find suitable frequencies.
- Replacement system included in the radio replacement plan.
- Will not address other paging bands or independent systems.
Fire, EMS, DOT Radio System Replacement (BIT 32)

* Approved for $30M Over 5 Years
  * Sufficient for Stages 1 & 2 if UHF frequencies are kept
  * Fire/EMS/Transportation UHF Trunk System
  * 60 Control Dispatch Consoles
  * Fire Paging System (Low Band Replacement)
  * County Police Dispatch and Interop System (F1/F3)
  * Voice Portion of Transportation CAD/AVL System
Replacement System
Construction in Three Stages

- Stage 1 (2018-2019)
  - Replace mobiles, portables and control stations
  - Replace existing trunk system with new UHF P25 Phase 2 equipment
  - Replace existing F1/F3 conventional system with new VHF P25 Phase 1 equipment
  - Utilize existing sites
  - Maintain same coverage
  - Implement new paging system (multi site / multi frequency).

- Stage 2 (2020-2023)
  - Add sites to achieve “on-street” portable coverage
  - Move County DPS to the trunk system
  - Move to 700 MHz if T-Band will be reallocated
  - Add additional paging sites if required.
Replacement System
Construction in Three Stages

- **Stage 3 (2024-2028)**
  - Continue to add sites to achieve “in-building” portable coverage for light and medium buildings
  - Large buildings may require individual solutions
  - Invite local police departments on to the trunk system
  - Decommission low band paging system when all users have moved to the new system or when base stations cannot be repaired or replaced

**NOTE:** Fire Ground Frequencies & Operations Remain Unchanged
Timeline

- RFP responses received on January 16, 2018
  - Harris, Inc.
  - Motorola Solutions, Inc.
- Response analysis in progress
- Vendor selection in Second Quarter of 2018
- Stage 1 completed by December 2019
New SICG
Formula Based Grant

* **Purpose:**
  * Fill interoperability communication gaps.

* **Funding:** Awarded April 2017 by NYS DHSES OIEC
  * $677,239.00

* **Project:**
  * Purchase and install “All Band” radios in specified response units that support mutual aid in other counties and states.
    * FD/EMS Agencies/Officers that frequently respond to contiguous county areas (Putnam / Connecticut)
    * Fire / EMS Coordinators, etc.
**Equipment:** Motorola APX 8500 mobiles:
- All Band Radios.
- Unit must operate with existing and future system (APCO P25).
- Install unit w/ accessories.
- Identify other specific requirements.
  - Dual Head
  - Control Mic
  - Etc.

- Approximately 65 units can be purchased. (~$10K each)
Questions?