CBJ Radio Project Overview



POLICE CHIEF ED MERCER



Radios are Necessary for First Responders

- ▶ Police officers, firefighters, medics, other public safety workers, and other agencies use radios to communicate everything from routine situations to disasters.
- ► The dynamic nature of being a first responder often requires immediate communications that are not possible through other forms, like cell phones.
- Radio logs are recorded and time stamped and can provide valuable evidence or information.
- By improving radio communications and the enhancing technologies, our responders can perform their jobs better and more safely.

Current Radio System

- The current conventional <u>analog</u> system was installed between 2006-2008.
- The system was deemed "end of life" in 2014 with no manufacturer guarantee of support.
 - Many components and replacement parts are no longer available.
- Coverage is provided by 9 radio sites.



2020 Radio Study

- ► The study focused on:
 - Evaluating the current system
 - Providing conceptual design information
 - Addressing improved coverage
 - Recommending improved interoperability
 - Moving CBJ into the next generation, supportable configuration for 15+ years
 - Providing cost savings to CBJ by leveraging existing systems and expanding user groups









Current System Deficiencies

- ▶ Lack of coverage
 - ► Only 57% radio coverage inside typical wood frame residences
 - ▶ Only 49% radio coverage in commercial buildings
 - ▶ JPD officers & CCFR firefighters depend on radio for emergency backup & mayday situations
- Lack of dependability (high sites with no access, no replacement parts)
- Lack of options (no encryption, limited interoperability, no GPS in portables)

What happens if we do nothing?

- The current system and components will break at some point.
- Our only back up is ALMR, which has limitations:
 - ▶ JPD and CCFR portable and vehicle radios are not compatible with ALMR planned upgrades.
 - ▶ The current ALMR system is not recorded or time stamped
 - ▶ The current ALMR system uses only four radio sites and has limited coverage.
 - The current circuit does not have enough bandwidth for CCFR & JPD
- ► Emergency communications and capacity will be severely limited until a new system is engineered and installed.

Radio Study Options

- ▶ The study provided three options:
 - ▶ 1 CBJ Stand alone analog system for \$15,385,000
 - ▶ 2 CBJ Stand alone digital system for \$ 17,436,000
 - ▶ 3 Coordination with the State's ALMR digital system for \$13,590,000

Recommendations

- Joining and expanding the State's Alaska Land Mobile Radio system (ALMR)
 - Capitalizes on existing towers/sites (4)
 - Select CBJ sites will be upgraded and added to the existing ALMR system
 - Will provide greater radio coverage and building penetration
 - Potential long term cost savings/sharing
 - Increased interoperability
 - Expanding to other CBJ agencies (subscriber radios required)

Funding Status

General Fund Appropriation:

\$500,000

Project Planning, Design, Initial Construction

▶ Temporary 1% Sales Tax Proposition:

\$2,000,000

Additional Construction Phase

▶ Funding Gap:

~\$11,000,000

- ► Grants may be available
- We will have more detail to present as the project proceeds through initial phases

Questions?

THANK YOU