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City Council Regular Meeting**Meeting Date:** 01/03/2017**Recommended by:** Scott Miller**Prepared by:** Scott Miller, Fire Chief**Finance Director Review:** Celina Morris**City Attorney Review:** Brett Wallace**Approved by:** Larry Rains**Date Submitted:** 11/29/2016**Type of Action Requested:** Ordinance

SUBJECT:

Replacement of Radios - Phase I Portables

RECOMMENDATION:

It is recommended that the Mayor and City Council adopt an ordinance to purchase Motorola Portable Radios from Motorola Solutions under Arizona State Contract # ADSP013-036880 for an amount not to exceed \$166,759.08.

DISCUSSION:

This project is a 3-year, 3-phase approach to replacing all of the City of Casa Grande Fire Department radios due to them reaching their End of Life (EOL). This project was budgeted over the next 3-years in the City Capital Replacement Program. This years, Phase I budget is \$167,000 and is under Arizona State Contract # ADPSO13-036880. Currently Fire Department portable radios, Motorola XTS2500, have been slated for EOL through the manufacturer and will no longer be supported beyond December 31, 2019. The current radios have been in use since 2008 and do not allow for consistent interoperable communications with some of our Mutual Aid partners we work with due to the single-band limitations of the radio. Gila River and Maricopa (along with the entire Phoenix Metro area) utilize systems that our current portables cannot access.

The proposed portable radio, Motorola APX8000XE, provides Fire Department personnel with the latest technology and enhanced at their fingertips, or more accurately in their gloved hand. Casa Grande, Eloy, and Arizona City currently utilize the VHF band for radio communications while Gila River, Maricopa and all of our partners in the Phoenix area use the 800 MHz band. Pinal County is in the build-out phase of implementing a county-wide 800MHz system. If this system is offered to Casa Grande as part of a regional wireless communications system, these new radios will already have the capability to access the system. The APX radio has multi-band capabilities, which will allow all personnel to seamlessly manage and use one radio throughout all radio systems. The seamless transition between systems provides for a much safer method of communication for firefighters.

The XE version of the radio was specifically designed for use with a firefighter's protective ensemble and fire suppression activities. Larger buttons and knobs make the radio safer and easier for Fire personnel to operate while wearing large and bulky protective clothing. The radio has been designed with noise-canceling technology and multiple microphones enhance voice audio while in high noise environments, such as motor vehicle collisions and fire suppression.

The EOL announcement of current radios coupled with the enhanced safety and usability of the proposed radios will provide the Fire Department with a viable method of portable communications within the City and with Mutual Aid partners. The expected life cycle of these 20 radios is 10 years, included with the purchase of these radios is a 5 year warranty per radio, which will help alleviate fiscal impact for repairs. The Fire Department has collaboratively come up with a fiscally responsible plan taking 3 years to disperse the financial impact, while still increasing the safety, communications, and functionality for personnel. The APX XE series of radio has been in use by many local departments, and proven its functionality and reliability for the firefighter.

FISCAL IMPACT:

This project was budgeted during fiscal 2016/17 for \$167,000.00. The cost of Phase I is \$166,759.08 and is through Motorola Arizona State Contract #ADSP013-036880. The expected life cycle of the portable radio is 10-years and there is a 5-year warranty on each portable. Included in the price was a trade in promotion value of \$7,000.00. After the warranty expires in 5-years, the City will be responsible for the repairs of the radios.

ALTERNATIVES:

To approve or deny.