



# CITY COUNCIL AGENDA REPORT

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MEETING DATE: October 17, 2016

ITEM NUMBER: **CC-7**

**SUBJECT:** FUNDING FOR PURCHASE OF THE ORANGE COUNTY 800 MHZ COUNTYWIDE COORDINATED COMMUNICATIONS SYSTEM UPGRADE PROJECT DISPATCH CONSOLES AND PARTNERSHIP COSTS

**DATE:** OCTOBER 6, 2016

**FROM:** POLICE DEPARTMENT – SUPPORT SERVICES DIVISION

**PRESENTATION BY:** KEITH DAVIS, LIEUTENANT – TELECOMMUNICATIONS BUREAU

**FOR FURTHER INFORMATION CONTACT:** LT. KEITH DAVIS – 714-754-5660

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## **RECOMMENDATIONS:**

1. Approve and authorize the Chief Executive Officer (CEO) to sign the sole source purchase request and authorize the purchase of eight (8) Dispatch Consoles and accessories designed to interface with the existing Orange County ASTRO 25 System offered by Motorola in the amount of \$1,103,107.00.
2. Approve payment of \$371,267.00 to the County of Orange for 800 MHz Next Generation Project partnership costs.
3. Authorize the CEO to use up to \$1,326,000.00 from the City's Equipment Replacement Fund 601 (with no interest) and be repaid in FY 17-18 for this and related equipment.

## **BACKGROUND:**

The Orange County Sheriff-Coroner Department (OCSD) operates and maintains the 800 MHz Countywide Coordinated Communications System (CCCS), which provides centralized, interoperable voice radio communications for the County and its 34 cities. This includes all public safety and public service agencies, as well as a number of private, state, and federal agencies who provide support to the above agencies and/or have relevant communications requirements. After a competitive bid process, the County entered into a \$70.4 million contract with Motorola Inc. in September 1995 to provide the countywide 800 MHz CCCS integrated radio communications system. A new five-year agreement with Motorola Inc. was approved by the Board of Supervisors (Board) on April 20, 2010. On October 1, 2013, the Board approved a contract with Motorola Inc. in the amount of \$495,497.00 for an upgrade of the mobile, portable, and fixed station radio equipment to maintain the integrity and performance of the 800 MHz CCCS and provide the operational capabilities required by the various users.

Orange County agencies have long benefited from a unique capability to monitor and communicate on a countywide radio system. This capability requires a unique

configuration of radio equipment that is not available in a typical off-the-shelf arrangement. The existing legacy equipment has reached end-of-life and is no longer supported by Motorola. The legacy equipment is not upgradable to Project 25 (P25). P25 is a set of standards for digital radio communications for use by federal, state, and local public safety agencies in North America to enable them to communicate with other agencies and mutual aid response teams in emergencies. P25 was established to address the need for common digital public safety radio communications standards for first-responders and homeland security/emergency response professionals. The goal of P25 is to enable all public safety responders to communicate with each other and thus, achieve enhanced, coordinated, and effective use of communication equipment. Current legacy equipment must be replaced prior to the countywide system upgrade to P25 in 2018.

When the original contract for the 800 MHz CCCS was awarded to Motorola in 1995, among the many considerations that led to the selection of Motorola's proprietary SmartNet/SmartZone technology was the requirement for certain specialized features including, but not limited to, Dynamic System Management and Fleet Regrouping, which are embedded in both the infrastructure and the subscriber equipment (e.g., mobiles, portables, control stations, etc.). In addition, Motorola equipment is capable of encrypted voice transmission, which is utilized continuously by all public safety agencies throughout Orange County. Only Motorola equipment is capable of encrypted operation on a SmartNet/SmartZone system. Mobile, portable, and fixed station equipment utilized by participating CCCS agencies must be capable of operation on Motorola's SmartZone® technological platform. Only certain Motorola products can be utilized on the 800 MHz CCCS network. To maintain the integrity and performance of the 800 MHz CCCS, and provide the operational capabilities required by various users, the mobile, portable, and fixed station equipment must be upgraded by Motorola Inc., the original manufacturer and supplier of all of the subscriber equipment currently used on the system.

### **ANALYSIS:**

On February 12, 2014, the City of Costa Mesa, as a member of the 800 MHz CCCS, agreed to the joint management and governance of the shared communication system. This agreement addresses the estimated cost of upgrading aging backbone equipment through a cost-sharing allocation and memorializes the City's commitment to funding of the Next Generation Project 25.

The individual obligations for the ongoing maintenance cost of the system backbone (consoles and equipment), as approved by the Governance Committee for each of the cities and Orange County Fire Authority, are determined by the number of radios that each of the partnering agencies operate on the system. Costs for the radios that operate under contract with the OCSD are allocated to the city for which the services are contracted. The City has radios allocated for use through the contract with the OCSD. Due to the 800 MHz system upgrade, all City radios must be replaced. Since the dispatch consoles function as an integrated component of the total radio system, to fully participate in the project upgrade and be compatible with the P25 system, the consoles must also be replaced.

The replacement dispatch consoles have been identified by the County of Orange and the specific model is manufactured by Motorola. The total estimate for the City of Costa Mesa to replace its eight dispatch consoles is \$1,103,107.00. This price reflects an

\$88,000.00 system discount if ordered by November 4, 2016, and shipped by December 19, 2016.

The City's Purchasing Policies and Procedures Manual generally requires competitive formal bidding for purchases greater than \$50,000.00. However, these bidding requirements and procedures set forth in Section 3.2 of the Purchasing Policies and Procedures Manual may be waived when any of the exemptions listed in Section 3.3 apply. In this case, Motorola Solutions is considered a sole source vendor, offering a singular-type product necessary to match existing equipment. Only Motorola manufactures the dispatch console to work with the existing 800 MHz system specified by the County of Orange. Section 4.4 of the Purchasing Policies and Procedures Manual provides for an exemption when the goods and supplies, equipment or nonprofessional services are proprietary. The particular technology for the 800 MHz system is proprietary and only specific radios are compatible with the system. As indicated, the proposed purchase is for dispatch consoles that have been pre-selected by the County of Orange for use with the replacement radio and designed to integrate seamlessly with the existing 800 MHz system.

The CCCS member agencies, including the City of Costa Mesa, engaged in significant discussions as to how to take on this upgrade replacement project and decided on a four-year phased cost allocation which began in FY 14-15 and continues through FY 17-18. The terms of the agreement and estimated cost sharing allocations are outlined in the Amendment to the Joint Agreement, which was approved by the City Council on March 17, 2015.

In addition, on September 28, 2016, the City received an invoice in the amount of \$371,267.00, which is our FY 16-17 partnership cost associated to the 800MHz CCCS Next Generation P25 project. The partnership cost is a shared expense, which will fund the 800MHz Backbone Upgrade outlined in the Amendment to the Joint Agreement. The System Backbone, consisting of radio infrastructure equipment that is at or near the end of its expected life, will be directly replaced with the current version of the same equipment that will maintain all existing features and functionalities and is able to work with the existing backhaul network. Specifically, this will involve the replacement of 565+ existing Quantar radio base stations and ancillary equipment at 25 radio sites with 800 MHz 3600 baud GTR8000 base stations and ancillary equipment.

**ALTERNATIVES CONSIDERED:**

There are no feasible alternatives. The cost is to extend the life of the 800 MHz CCCS and in order for the City to utilize the system, the dispatch consoles must be replaced, as necessary, to be compatible with the upgraded technology and system.

**FISCAL REVIEW:**

The sole source purchase is for \$1,103,107.00. The City's estimated share of the overall countywide system upgrade is \$4,805,248.00. This total cost is being funded through annual budget allocations which began in FY 14-15 and will continue through FY 17-18. Funds in the amount of \$1,584,000.00 were set aside in the FY 14-15 adopted budget. Funds in the amount of \$1,239,969.00 were set aside in the FY 15-16 adopted budget. These two years included partial anticipated funding from the Narcotics Asset Forfeiture Fund which are no longer available. Funds have been

approved in the FY 16-17 budget in the amount of \$1,181,641.00 bringing the total funds available to date to \$2,729,000.00.

On September 20, 2016 the Council approved the purchase of related radios and accessories for \$2,313,667.00. With today's recommended action on the console equipment, partnership costs and other items that may be needed this fiscal year, staff recommends advancing the FY 17-18 funding plan of \$1,326,000.00 in the form of an internal loan from the City's Equipment Replacement Fund 601 (with no interest) to be repaid in FY 17-18. Fund 601 has adequate cash and fund balance to accommodate this action.

### **LEGAL REVIEW**

The City Attorney's Office has reviewed the documents and approved them as to form. SB 331 does not apply to the purchase order because no contract negotiations are involved and it is made pursuant to a previously approved provision of an existing agreement. (Public Contract Code Section 22178(a)).

### **CONCLUSION:**

For all of the aforementioned reasons, the Police Department respectfully requests the City Council approve the expenditures and transfer of funds as recommended in this report.

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KEITH DAVIS  
Lieutenant

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ROBERT N. SHARNACK  
Chief of Police

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STEPHEN DUNIVENT  
Interim Finance Director

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THOMAS P. DUARTE  
City Attorney

Attachment: [1. Justification for Sole Source Request](#)  
[2. Quote from Motorola Solutions](#)  
[3. Amendment to Joint Agreement](#)