



**CITY OF PLANO
COUNCIL AGENDA ITEM**

CITY SECRETARY'S USE ONLY				
<input checked="" type="checkbox"/> Consent <input type="checkbox"/> Regular <input type="checkbox"/> Statutory				
Council Meeting Date:		11/14/2011		
Department:		Purchasing		
Department Head		Diane Palmer-Boeck		
Agenda Coordinator (include phone #): Sharron Mason x7247				
CAPTION				
Approval of change order to Motorola USA, Inc., increasing the contract by \$110,637.00 for additional equipment and services associated with the CSP P-25 Simulcast System, Change Order #6. CSP No. 2009-137-C.				
FINANCIAL SUMMARY				
<input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OPERATING EXPENSE <input type="checkbox"/> REVENUE <input checked="" type="checkbox"/> CIP				
FISCAL YEAR: 2011-12	Prior Year (CIP Only)	Current Year	Future Years	TOTALS
Budget	1,548,538	5,017,801	0	6,566,339
Encumbered/Expended Amount	-1,548,538	-234,013	0	-1,782,551
This Item	0	-110,637	0	-110,637
BALANCE	0	4,673,151	0	4,673,151
FUND(S): TECHNOLOGY IMPROVEMENTS (CO'S/TAX NOTES)				
<p>COMMENTS: Funds are available from the 2008 and 2009 sale of Tax Notes and 2010 sale of Certificates of Obligation. This item, in the amount of \$110,637, will leave a current year balance of \$4,673,151 for the Radio System Infrastructure Replacement Project (project #94205).</p> <p>STRATEGIC PLAN GOAL: Additional equipment associated with the Radio System Infrastructure Replacement project relate to the City's Goals of Financially Strong City with Service Excellence and Safe Large City.</p>				
SUMMARY OF ITEM				
<p>Motorola and the City of Plano intend to process a change order associated with the ongoing deployment of the CSP P-25 Simulcast system. The change order will consist of procuring additional equipment and services as detailed in the attached Motorola Change Order No. 6: 1. Changes in Equipment; 2. Changes in Services; and Price Changes.</p> <p>Staff recommends approval of Change Order No. 6. The contract total will be \$14,087,523.00, which includes change orders of 14.80% of the original contract amount of \$12,271,398.00.</p>				
List of Supporting Documents:			Other Departments, Boards, Commissions or Agencies	
Change Order 6				

Equipment and Services Associated with Pending Change Order – City of Plano Change Order #6, P25 Simulcast System**Contract #** CSP 2009-137-C **Contract Date:** 12/23/2009

Motorola and the City of Plano intend to process a change order associated with the ongoing deployment of the P25 Simulcast system. The change order will consist of equipment and services as described in the following tables. As indicated in the Pricing section, the change order will represent an increase in the City's existing purchase order by the amount of \$110,637.00.

Changes in Equipment:

The following changes in equipment apply to this change order :

- Return of fire department multi-unit chargers and APX adapter cups
- Return of Fire Department APX6000 carry cases
- Purchase of MOSCAD SDMs for Ave K, Allen Dispatch, Radio Shop, Wylie Dispatch for UPS and Alcatel microwave monitoring
- Purchase of seventeen (17) additional XTS2500s, chargers and speaker microphones
- Return one analog conventional repeater (MTR3000)
- Purchase one conventional digital repeater (GTR8000)
- Purchase thirty-eight (38) desk-top Impress single unit chargers for XTS portables
- Purchase sixty-eight (68) Impress single unit vehicular chargers for APX portables

Changes in Services:

The services corresponding with changes in equipment, as well as additional services, are listed below. Each item is described in the detail that follows. Motorola is providing the following services under this change order:

- Updated tower structural loading analyses for Data Radio and IT department antennas
- Installation services for MOSCAD SDMs for Ave K, Allen Dispatch, Radio Shop, Wylie Dispatch
- Additional training and Whelen siren integration support for the Outdoor Warning System
- Extended warranty coverage on all subscribers (new and previously existing)
- Installation of sixty-eight (68) Impress vehicular single-unit chargers for APX portables
- Purchase one (1) additional System Administrator Workshop (training session)

Updated Tower Structural Analyses

Motorola will perform updates to previously provided structural analyses for the Avenue N, Parkway, Communications Parkway, Ridgeview and Schoolhouse sites. This includes a remediation design to resolve anticipated over-loaded conditions at the Parkway site. Motorola

Changes in Services:

will use input provided by the City of Plano pertaining to the size and type of antennas, transmission lines and mounting accessories, to perform updated structural analyses of said towers. For each tower, Motorola will issue a written report describing the current and future appurtenances and their impact to the structural load-bearing capacity.

Installation Services for MOSCAD SDMs

Motorola will provide installation and configuration labor for the complete integration of the MOSCAD SDMs at Avenue K, Allen Dispatch, Plano Radio Shop and Wylie Dispatch. These SDMs are intended for the purpose of remotely monitoring UPS and microwave equipment at these sites. Motorola will connect individual digital input ports for each device monitored from a point of demarcation supplied by the City of Plano.

Additional Training and Siren Integration Support of the Outdoor Warning System

Motorola and its subcontractor (Integrated Telecommunications Systems – ITS) will provide additional end-user and system administrator training, as well as support related to the integration of new Whelen firmware with the newly installed Outdoor Warning System. The following tasks are included:

1. Review audio files triggered within the Whelen siren in comparison with the logical codes transmitted to the ACE3600/Siren interface. The intent is to resolve instances where the logical code transmitted results in an incorrect audio message transmitted through the siren's P/A. Where codes and transmitted audio are found to be incorrect, Motorola/ITS will assist identifying the issue. If changes are required in the ACE3600 portion of the siren system, Motorola/ITS will perform programming changes. If changes are required in the firmware or programming of the Whelen siren system, ITS will assist identifying the required changes and communicate to the City of Plano.
2. Review solar power charging issues and voltage thresholds programmed into the ACE3600 reporting mechanism. The City has learned that each of their solar sites may require expanded power capacity in order to support the new ACE3600 RTUs. This task will consist of a review of the power requirements of the ACE3600 such that the City of Plano is fully aware of the minimum voltage and current levels required for continuous operations of the ACE3600. Motorola and the City of Plano will gather details associated with a recently upgraded solar cell in an effort to determine if the upgrade successfully resolved ACE3600/Siren operational issues and alarms pertaining to voltage levels. The intent is to develop an understanding of the impact of low voltage and how to interpret the alarms associated with low-voltage conditions.
3. Review the functionality of sites where the Whelen siren system has recently been upgraded (firmware). Identify issues prohibiting successful functionality and identify the means by which issues should be resolved. Motorola/ITS will perform issue resolution if an issue can be resolved within the confines of the ACE3600/OWS platform. The City of Plano will perform issue resolution if the issue can be resolved within the confines of the Whelen siren and associated peripherals and firmware.

Changes in Services:

4. Change the Thunderstorm warning from its current audio code to "Wail" (requires further review with the City of Plano to confirm this is the desired change).
5. Provide remote assistance via conference call with the City of Plano and Whelen regarding items 1, 2 and 3 above. Previous implementations of ACE3600-based systems (e.g. neighboring cities) have resulted in similar issues, which were attributed to changes required within the Whelen siren package and/or solar power systems. Motorola/ ITS will provide remote assistance in advance of the on-site visit in order to further establish the action items that need to be executed (by the City of Plano and/or Motorola/ITS) during the on-site visit. Pre-visit conference calls will lend to the efficiency of the on-site visit.

Extended Warranty Coverage on Subscribers

Motorola will execute extended warranty coverage on all subscribers such that coverage extends to 9/30/2014. The affected maintenance contracts are listed individually, with the modified date ranges as follows:

- Contract S00001017544 has 321 pre-existing XTS5000 covered until 8/31/2013. Motorola will add 13 months to this contract
- Contract S00001017544 has 295 pre-existing XTL5000 covered until 8/31/2013. Motorola will add 13 months to this contract
- Coverage for radios purchased under the new PAWM P25 Simulcast contract will be extended to 9/30/14. Quantities and types are as follows (the duration indicated accounts for the pre-existing level of coverage, such as two-year Repair Service Advantage and/or standard 1-year warranty, such that the end result is coverage to 9/30/2014):

Qty	Type	Duration
356	XTS2500 and 5000	2 months
395	XTL2500 and 5000	2 months
22	XTL Consolettes	38 months
162	APX6000	15 months

Installation of Single Unit Vehicular Chargers for City of Plano Fire Department

Motorola will install sixty-eight (68) single unit chargers by installing four (4) individual chargers in each of seventeen (17) fire apparatus. The City of Plano will ensure each apparatus has sufficient 12 VDC power to support the operation of the proposed chargers. Motorola will provide installation labor for the purpose of installing the chargers by mounting them in the location of the currently installed AdvanceTec chargers, and installing individual power source cabling to the apparatus DC power source. The price associated with this task is based on the assumption that 12 VDC power is readily available within the cab of each apparatus, without the need for additional equipment to boost or amplify the source of current required to operate

Changes in Services:

each charger.

Additional ASTRO 25 IV&D 7.8 Radio System Management Workshop

Motorola will perform one additional Radio System Management Workshop at the City of Plano's Radio Shop. The course is scheduled for December 12 – 26, 2011 and can accommodate up to 12 students. Motorola will provide associated student hand-outs and course material.

EXCLUSIONS

The price of this change order excludes the following services:

Conventional GTR8000 Repeater

This change order does not include services to install the GTR8000 conventional repeater. The proposed equipment does not include coax, connectors or antennas. The City of Plano will provide all antenna system equipment and installation services.

Additional XTS2500 Portables, Chargers and Speaker Microphones

The price of this change order excludes programming services. The City of Plano will perform all programming services associated with the new XTS2500 portables.

Schedule Changes:

There are no schedule changes.

Pricing Changes:

The net increase to the City of Plano's purchase order is \$110,637. The price for individual equipment and/or services items is given in the table on the following page.

	Equipment	Services	Total
Purchase updated loading analyses on towers for Data Radio and IT department antennas		10,703	10,703
Return of fire apparatus DC chargers (27 each)	(27,389)		(27,389)
Return of FD APX6000 carry cases (100 ea)	(5,778)		(5,778)
Purchase MOSCAD SDM hardware and installation services for Ave K, Allen Dispatch, Radio Shop, Wylie Dispatch (UPS and Alcatel monitoring)	22,874	9,344	32,217
Purchase additional training and Whelen siren integration services for the Outdoor Warning System		10,400	10,400
Purchase Seventeen (17) additional XTS2500s, battery chargers and speaker microphones	57,690		57,690
Purchase extended warranty coverage on all subscribers (new and existing)		53,398	53,398
Return one (1) analog conventional repeater	(10,155)		(10,155)
Purchase one (1) conventional digital repeater (GTR)	18,981		18,981
Purchase thirty-eight (38) impress single unit desk-top chargers	1,756		1,756
Purchase sixty-eight (68) single unit vehicular chargers and installation services	21,216	2,040	23,256
Additional System Management Workshop		24,041	24,041
Credit for Un-ordered Flash Kits & FD Black Housings (re-casing)	(78,484)		(78,484)
Grand Total	711	109,926	110,637

City of Plano Responsibilities:

The City of Plano will install a point of demarcation for the MOSCAD SDMs at Avenue K, Allen Dispatch, Plano Radio Shop and Wylie Dispatch. The City will extend cabling from individual device (e.g. UPS, microwave radios) alarm outputs to the point of demarcation. Motorola will cross-connect from the point of demarcation to the MOSCAD SDM digital input port.

The City of Plano will perform changes unique to the Whelen siren system consistent with changes that are identified in the ACE3600/Whelen interface. The City of Plano is responsible for performing changes (as required) to the Whelen portion of the interface. Motorola is responsible for performing changes (as required) to the ACE3600 portion of the interface. All changes shall be agreed upon by Motorola and the City of Plano prior to implementation.

The City of Plano will ensure each apparatus has sufficient 12 VDC power to support the operation of the proposed single unit vehicular chargers for the Plano Fire Department. The City of Plano will work with Motorola to determine the mounting configuration and availability of 12 VDC power prior to commencing the installation.

The City of Plano will ensure the prerequisite course - **ASTRO 25 IV&D Introduction to Network Management Applications (online, self paced)** – has been completed by all students attending the System Management Workshop

The City of Plano will perform the installation of the GTR800 conventional repeater. The City of Plano will provide all coax, connectors, surge protection and antenna system hardware associated with the repeater. Motorola is providing the only the repeater hardware.

The City of Plano will perform all programming services associated with the additional seventeen (17) XTS2500 portables. Motorola is providing hardware only.

Payment Schedule for this Change Order:

The original payment milestones set forth in the original contract will remain unchanged. The City's current purchase order amount will be increased by the amount of \$110,637.

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

Motorola, Inc.

Customer

By: _____
 Printed Name: Michael Duke
 Title: Territory Services Director
 Date: _____

By: _____
 Printed Name: Ron Goldsmith
 Title: Radio Manager
 Date: _____

Reviewed by: David Hill
 Motorola Project Manager

Date: 8/8/2011