



**CITY OF PLANO  
COUNCIL AGENDA ITEM**

<b>CITY SECRETARY'S USE ONLY</b>				
<input type="checkbox"/> Consent <input type="checkbox"/> Regular <input type="checkbox"/> Statutory				
Council Meeting Date:		12/13/2010		
Department:		Purchasing		
Department Head		Mike Ryan		
Agenda Coordinator (include phone #): <b>Sharron Mason x7247</b>				
<b>CAPTION</b>				
Approval of change order to Motorola USA, Inc., increasing the contract by \$202,487.00 for equipment and services associated with the CSP P25 Simulcast System, Change Order #3. Contract No. 2009-137-C.				
<b>FINANCIAL SUMMARY</b>				
<input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OPERATING EXPENSE <input type="checkbox"/> REVENUE <input checked="" type="checkbox"/> CIP				
FISCAL YEAR: <b>2010-11</b>	<b>Prior Year (CIP Only)</b>	<b>Current Year</b>	<b>Future Years</b>	<b>TOTALS</b>
Budget	14,657,205	9,342,795	0	<b>24,000,000</b>
Encumbered/Expended Amount	-14,657,205	-2,440,796	0	<b>-17,098,001</b>
This Item	0	-202,487	0	<b>-202,487</b>
BALANCE	0	6,699,512	0	<b>6,699,512</b>
<b>FUND(S):    TECHNOLOGY IMPROVEMENTS (CO'S/TAX NOTES)</b>				
<p><b>COMMENTS:</b> 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 \$202,487, will leave a current year balance of \$6,669,512 for the Radio System Infrastructure Replacement project.</p> <p><b>STRATEGIC PLAN GOAL:</b> Simulcast site additions for the radio system infrastructure replacement project relate to the City's Goals of Financially Strong City with Service Excellence and Safe Large City.</p>				
<b>SUMMARY OF ITEM</b>				
<p>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 changes in equipment and services as described in the following tables labeled: 1. Changes in Equipment; and 2. Changes in Services.</p> <p>Staff recommends approval of Change Order No. 3. The contract total will be \$13,994,886.00, which includes change orders of 14.04% of the original contract amount of \$12,271,398.00.</p>				
List of Supporting Documents:			Other Departments, Boards, Commissions or Agencies	
Change Order 3				



**Equipment and Services Associated with Pending Change Order – City of Plano Change Order #3, 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 of the City's existing purchase order by the amount of **\$202,486.72**.

**Changes in Equipment:**

This change order accounts for the following changes in equipment :

- Deletion of the formerly proposed UPS for the Avenue K dispatch center. The original design called for the placement of the Master Site core networking equipment at the Avenue K site ; therefore the UPS was proposed in order to provide provide backup power to the Master Site equipment. Subsequent to contract award, the design was changed such that the Master Site equipment is now located at the Avenue N repeater site, which is already equipped with an UPS. Thus, negating the need for the two (2) 18kVA UPS' at Avenue K. The associated installation services are also being removed from the scope of the project, as indicated in the « Changes in Services » section below.
- Addition of one (1) 18kVA UPS at the City of Plano Radio Shop. This includes the associated battery cabinet, bypass switch and batteries. Installation services are also included and are described in the « Changes in Services » section below.
- Decreased scope associated with the City of Plano logging recorder interface: This change order includes the deletion of the previously proposed and contracted Voice Print International logging recorder solution, which consisted of a modification to the City's existing Voice Print system and the addition of the Genesis trunking information database interface. Subsequent to contract award, the City of Plano opted to delete the contracted design and purchase additional trunked radios, each tuned to a specific talkgroup, as the interface to the existing logging recorder. This change order reflects the elimination of the Voice Print and Genesis hardware and software. The purchase of additional trunked radios is captured in a previously executed change order (Motorola Change Order #8).
- Addition of SmartZone Trunking software option to previously procured Consolettes. The procurement of additional consolettes is captured in a previously executed change order (Motorola Change Order #8)
- Addition of conventional repeaters: At the City's request, this change order includes the addition of five (5) 800MHz conventional repeaters (806-870MHz). Motorola is providing the repeaters in the form of base radio equipment only. The configuration of each repeater is as follows:
  - MTR3000 Base Radio
  - 800MHz, 100W power
  - Duplexor
  - Circulator
  - Rack-mount hardware

**Changes in Equipment:**

4-wire wireline interface  
Programming cable

**Changes in Services:**

This change order accounts for the following changes in implementation services:

- Increased scope of training services: In response to the City's request, Motorola has modified the original Training Plan (and associated pricing) to accommodate two sessions of each of the technician and administrator training sessions. The resulting training outline is included as an attachment to this change order document and Motorola will perform the training sessions indicated therein.
- Decreased scope of training services: In response to the City's request, Motorola has removed all mobile and portable radio user training as well as all dispatch operator and console administrator training (train-the-trainer) sessions.
- Decreased scope of Parkway site antenna system installation: The original contract included a new cable ladder for the Parkway tower in order to accommodate the transmission lines associated with the new P25 Simulcast system and Alcatel microwave equipment. Subsequent to contract award, it was determined that the existing cable ladder had enough space to accommodate all of the new transmission lines.
- Decreased scope of Doghouse site antenna system installation: The original contract included new antennas for the Doghouse site. Subsequent to contract award, it was decided that the existing antennas would be re-used in the new system due to the relatively short tower height and low height above average terrain of the Doghouse site's location. The City of Plano opted to keep the new antennas for future use, and new transmission lines were installed. The decreased scope is commensurate NOT installing the new antennas.
- Decreased scope of Avenue K UPS system installation: As indicated in the "Changes in Equipment" section above, the Avenue K UPS system is being de-scoped from the project. The associated installation services are also being de-scoped.
- Increased scope – UPS at Plano Radio Shop: As indicated in the "Changes in Equipment" section above, a new UPS will be installed at the City of Plano Radio Shop. Installation services for the new UPS are included in this change order. Installation services include:
  1. Complete Engineering and design drawings
  2. Furnish & install (1) new 400AMP fused disconnect.
  3. Furnish & install (1) new 60AMP fused disconnect.
  4. Furnish & install (1) new wire way.
  5. Furnish & Install (1) new "MDP" 120/208v 3PH 4W 400AMP MLO 42 circuit panel
  6. Furnish & install (1) new "A" 120/208v, 3PH 4W 200AMP MLO 42 circuit panel
  7. Install (1) type 1 TVSS
  8. Install (1) type 2 TVSS
  9. Install (1) Bypass switch
  10. Install (1) 18KVA UPS
  11. Install (2) Type 3 TVSS
  12. Furnish & install (1) 100AMP fused at 80AMP disconnect between the UPS and bypass switch
  13. Furnish & install (1) new "UPS 1" 120/240v 1PH 3W 200AMP MLO 42 circuit



<p>panel</p> <p>14. Furnish &amp; install (1) new "UPS 2: 120/240v 1PH 3W 200AMP MLO 42 circuit panel</p> <p>15. Furnish &amp; install new ground buss bar</p>
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<b>Schedule Changes:</b>
None. There will be no increase or decrease in the overall project time-line.

<b>Pricing Changes:</b>			
This following table provides the pricing associated with the individual changes in equipment and services cited in the sections above:			
Item	Equipment	Services	Total
Increased training		173,747.92	173,747.92
Revised scope Parkway antenna installation (deduct cable ladder)		(4,622.06)	(4,622.06)
Revised scope Doghouse antenna installation (deduct antenna installation)		(5,714.22)	(5,714.22)
Avenue K UPS (removed)	(81,513.00)	(9,462.24)	(90,975.24)
Radio Shop UPS (added)	40,756.50	65,303.41	106,059.91
Credit for unused Motorola, Voice Print and Genesis Software & Hardware	(2,190.70)	(39,821.35)	(42,012.05)
5 ea MTR3000 conventional stations	51,775.00		51,775.00
SmartZone software for previously procured consolettes	18,000.00		18,000.00
Credit left over from Change Order #8		(3,772.52)	(3,772.52)
		<b>Grand Total</b>	<b>\$202,486.72</b>

<b>Customer Responsibilities:</b>
The City of Plano will provide antenna systems for the conventional repeaters, and perform the installation of conventional repeaters and associated antenna systems.
The City of Plano will provide adequate space and HVAC facilities at the Radio Shop for the new UPS. The City of Plano will perform a power consumption load study (by the City's contractor/engineer) in anticipation of a generator and manual transfer switch to be placed at the Radio Shop in the future. The City will acquire increased commercial AC service (e.g. 400A) at the Radio Shop facility as required, given the outcome of the City's power consumption load study.

<b>Payment Schedule for this Change Order:</b>
The original payment milestones set forth in the original contract will remain unchanged. The amount of the invoices for each payment milestone will increase commensurate with the overall increase in the City of Plano's purchase order amount.

**Quote for :**  
 Increased Training,  
 Revised Scope of Electrical Upgrades  
 Revised Scope of Antenna Installations  
 Purchase of Additional Equipment