Memorandum

To:　　　　Board of Mayor and Aldermen

From:　　　Bill Ford, Radio Project Manager (IT Department)

Subject:　Modification of Radio System Contract

Date:　　 September 27, 2016

Because of a change in the way the Federal Requirements for our radio system upgrade have been re-intemperated, we are having to make some changes in the way we provide encryption. We had planned to use a no-cost option, but that has been deemed to be unacceptable by the Department of Homeland Security. Because of this, we will have to move forward with an option that increases the cost of the project.

The additional cost is $254,076.35. I have been working with Doug Whittling to make sure that this cost increase can be accommodated within the scope of the loan/lease purchase that will be executed to fund the project. This represents an 8.8% cost increase. I had requested a 10% contingency allotment in the event that something like this came up, and this falls within that amount.

If you agree to this, we must submit this to the Wireless Communications Commission (WCC) for their approval, and then we must execute a formal change order with Motorola. The WCC submission must be submitted as soon as possible so that it can be placed on their October 6th agenda. To that end, I have submitted preliminary info to the WCC, but a certified copy of the board action must be submitted before they can take action.

I have also been working with Motorola to assure that the formal change order is available for submission to you for board action ASAP. Motorola is giving the City full credit for any equipment that is replaced.

Attachments:
City of Vicksburg AES Encryption Capability Tradeout Summary, rev1
MWCC Local Procurement Request

cf:
Doug Whittington
Rick Beers

Wireless Communications Request
% Ms. Lana Nicks,
MS Wireless Communication Commission
412 East Woodrow Wilson Ave, Mail Stop 6601
Jackson, Mississippi 39216
Phone: 601-359-5126; Fax: 601-359-5362
lnicks@wcc.ms.gov

MWCC
Mississippi Wireless Communication Commission

Local Procurement Request

Project Title:	Addition of AES Encryption to new system.

Contact Information

Local Governing Authority: Vicksburg, City of	**Contact Person:** Bill Ford
Address: P.O. Box 150, Vicksburg, MS 39181	**Phone:** (601) 631-2995 **Fax:** (601) 510-9292
Department: IT Department	**Email Address:** billf@vicksburg.org

Project Summary

Project Type: New System___   Upgrade/Enhancement to Existing System **X**   System Expansion ___   Maintenance ___

Narrative Description of Current System and Proposed Project including a time line for implementation (Attach additional sheets if needed.)
Upgrade to system to attach to MSWIN currently in progress. This change will bring the upgrade into it into compliance with WCC requirements concerning encryption.

Discuss Funding (Total project budget; source of funds, i.e., Homeland Security, local revenue, grants, other state or federal funding)
The funding is included in the FY-17 general fund budget for the City of Vicksburg.
The change will add $254,076.35 to the overall cost previously approved by the WCC.

Acquisition Details (Attach additional sheets as needed)

Items Requested: SEE ATTACHED SPREADSHEET

Item	Quantity	Description	Manufacturer	Purchase Cost
				$
				$
				$
				$
				$
TOTAL				$

Acquisition Method: Competitive bid by requesting entity: _____   **2-Way Radio EPL:** _____ **Quotes:** _____
Existing Contract by requesting entity: _____   **MSWIN Motorola 3429:** ___X___   **Other:** _____
If "other," specify method:

Critical Factor(s): What is driving this acquisition at this time?
Requirements to bring system into compliance with encryption standards.

Name (Presiding Officer) / Title   **Signature**   **Date**

Please Attach:
- ➤ Official Board Order or Certified Copy of Minutes authorizing this project
- ➤ For radio acquisitions, answers to *General Analysis Questions: Local Government Radio Acquisitions*
- ➤ All Vendor price quotes

Revised: 10/13/2014

Mississippi Statewide Wireless Integrated Network (MSWINS)
Analysis Questions: Local Government Radio Acquisitions

(Note: Requestor should coordinate with ITS, the WCC, and/or the incumbent vendor, as required, to thoroughly and accurately answer each of the questions listed)

1. What is needed/being requested?   Equipment needed to add AES encryption.

2. What is the impact of the local project on the state MSWINS project?
   Will bring project into MSWIN AES compliance.

3. What is the potential impact of the state MSWINS project on the local project(s)?
   Will bring project into AES compliance.

4. How can shared facilities (equipment and infrastructure) be leveraged to benefit one or both projects?   N/A

5. How does the proposed technology mesh with the state's technical implementation?
   YES

6. Describe where the differing technologies fit on the technology roadmap. Is there a defined migration path from the older to the more recent technology solution?
   N/A

7. Are the equipment purchase prices consistent with or better than the state contract prices and discounts?   YES

8. What level of interoperability with the state and other local systems will this implementation achieve?   FULL INTEROPERABILITY

City of Vicksburg AES Encryption Capability Tradeout Summary, rev1

		ADDITIONS		CREDITS	
		unit	*extended*	*unit*	*extended*
40 H84UCF9PW6N	APX1000 7/800 MHZ MODEL 2 PORTABLE			$ (1,595.00)	$ (63,800.00)
40 QA04096	P25 Trunking			$ -	$ -
40 QA01648	Advanced System Key - Hardware Key			$ -	$ -
40 H885BK	3 Year Service From the Start Lite			$ -	$ -
40 QA00580	Phase 2 TDMA			$ -	$ -
40 QA06397AA	DEL: GPS Activation			$ -	$ -
40 M36URS9PW1 N	APX1500 7/800 MOBILE			$ (2,300.00)	$ (92,000.00)
40 GA01339	SW P25 TRUNKING			$ -	$ -
40 QA01648	ADVANCED SYSTEM KEY			$ -	$ -
40 GA00580	TDMA			$ -	$ -
40 GA00804	APX 02 CONTROL HEAD (GREY)			$ -	$ -
40 G444	CONTROL HEAD SOFTWARE			$ -	$ -
40 G66	DASH MOUNT			$ -	$ -
40 G174	ANT 3DB LOW PROFILE			$ -	$ -
40 W20	KEYPAD MIC GCAI			$ -	$ -
40 G142	NO EXTERNAL SPEAKER NEEDED			$ -	$ -
40 G42	3 Year Service From the Start Lite			$ -	$ -
40 QA06397AA	DEL: GPS Activation			$ -	$ -
40 H51UCF9PW6 N	APX4000 700/800 MODEL 2 PORTABLE	$ 2,622.00	$ 104,880.00		
40 QA04865	Two Knob Configuration	$ -	$ -		
40 QA02756A	P25 Trunking (without 3600 Interop)	$ -	$ -		
40 G996	Programming over P25 OTAP	$ -	$ -		
40 H43	Radio Trace/Remote Monitor	$ -	$ -		
40 QA01648	Advanced System Key - Hardware Key	$ -	$ -		
40 H885BK	3 Year Service From the Start Lite	$ -	$ -		
40 QA00580	TDMA	$ -	$ -		
40 QA06397AA	DEL: APX GPS Activation	$ -	$ -		
40 Q629	ENH: AES ENCRYPTION	$ 403.75	$ 16,150.00		
40 H869	ENH: MULTIKEY	$ 280.50	$ 11,220.00		
40 DELETE	DELETE RSM	$ (102.85)	$ (4,114.00)		
40 M22URS9PW1N	APX4500 7/800	$ 2,929.00	$ 117,160.00		

MOTOROLA SOLUTIONS

City of Vicksburg AES Encryption Capability Tradeout Summary, rev1

Qty	Part	Description		Unit		Ext
40	QA02756	9600 TRUNKING BAUD SINGLE SYSTEM	$	-	$	-
40	GA00804	APX02 CONTROL HEAD	$	-	$	-
40	G444	CONTROL HEAD SOFTWARE	$	-	$	-
40	G66	DASH MOUNT	$	-	$	-
40	G174	ANTENNA 3DB LOW PROFILE 762-870	$	-	$	-
40	W22	PALM MIC	$	-	$	-
40	G996	Programming over P25 OTAP	$	-	$	-
40	G170	Radio Trace/Remote Monitor	$	-	$	-
40	QA01648	Advanced System Key - Hardware Key	$	-	$	-
40	G24	3 Year Service From the Start Lite	$	-	$	-
40	QA00580	TDMA	$	-	$	-
40	QA06397AA	DEL: GPS Activation	$	-	$	-
40	G843	ADD: AES ENCRYPTION APX	$	403.75	$	16,150.00
40	W969	ADD: MULTIPLE KEY ENCRYPTION OPERATION	$	280.50	$	11,220.00
2	H51UCF9PW6 N	APX4000 700/800 MODEL 2 PORTABLE	$	2,622.00	$	5,244.00
2	QA04865	Two Knob Configuration	$	-	$	-
2	QA02756A	P25 Trunking (without 3600 Interop)	$	-	$	-
2	G996	Programming over P25 OTAP	$	-	$	-
2	H43	Radio Trace/Remote Monitor	$	-	$	-
2	QA01648	Advanced System Key - Hardware Key	$	-	$	-
2	H885BK	3 Year Service From the Start Lite	$	-	$	-
2	QA00580	TDMA	$	-	$	-
2	QA06397AA	DEL: APX GPS Activation	$	-	$	-
2	PMMN4069A	IMPRES RSM 3.5MM AUDIO JACK	$	-	$	-
2	WPLN4232A	CHARGER, SINGLE-UNIT, IMPRES	$	58.86	$	117.73
2	Q629	ENH: AES ENCRYPTION	$	403.75	$	807.50
2	H869	ENH: MULTIKEY	$	280.50	$	561.00
8	M22URS9PW1N	APX4500 7/800	$	2,929.00	$	23,432.00
8	QA02756	9600 TRUNKING BAUD SINGLE SYSTEM	$	-	$	-
8	GA00804	APX02 CONTROL HEAD	$	-	$	-
8	G444	CONTROL HEAD SOFTWARE	$	-	$	-
8	G66	DASH MOUNT	$	-	$	-
8	G174	ANTENNA 3DB LOW PROFILE 762-870	$	-	$	-
8	W22	PALM MIC	$	-	$	-

MOTOROLA SOLUTIONS

City of Vicksburg AES Encryption Capability Tradeout Summary, rev1

Qty	Part	Description	Unit		Ext	
8	G996	Programming over P25 OTAP	$	-	$	-
8	G170	Radio Trace/Remote Monitor	$	-	$	-
8	QA01648	Advanced System Key - Hardware Key	$	-	$	-
8	G24	3 Year Service From the Start Lite	$	-	$	-
8	QA00580	TDMA	$	-	$	-
8	QA06397AA	DEL: GPS Activation	$	-	$	-
8	G843	ADD: AES ENCRYPTION APX	$	403.75	$	3,230.00
8	W969	ADD: MULTIPLE KEY ENCRYPTION OPERATION	$	280.50	$	2,244.00
1	T7665	TDMA (APX 6000)	$	-	$	-
22	H869CC	ENH: MULTIKEY	$	280.50	$	6,171.00
1	T7936	APX UCM UPGRADE CD	$	48.88	$	48.88
22	CA00182AR	ADD: AES ENCRYPTION SOFTWARE	$	403.75	$	8,882.50
1	T7627	TDMA (APX 7000)	$	-	$	-
75	H869BX	ENH: MULTIKEY	$	280.50	$	21,037.50
1	T7936	APX UCM UPGRADE CD	$	48.88	$	48.88
75	CA00182AR	ADD: AES ENCRYPTION SOFTWARE	$	403.75	$	30,281.25
1	T7656	TDMA (APX 7500)	$	-	$	-
43	W969BJ	ENH: MULTIKEY OPERATION	$	280.50	$	12,061.50
1	T7936	APX UCM UPGRADE CD	$	48.88	$	48.88
43	CA00182AR	ADD: AES ENCRYPTION SOFTWARE	$	403.75	$	17,361.25
1	T7537B	KVL 4000 PDA SNAP-ON	$	1,250.00	$	1,250.00
1	U239AD	ADD: ASTRO 25 MODE	$	250.00	$	250.00
1	CA01598AA	ADD: AC LINE CORD US	$	11.00	$	11.00
1	CA00182AP	ADD: AES ENCRYPTION SOFTWARE	$	750.00	$	750.00
1	C725AA	ADD: KEYLOAD CABLE FOR APX PORTABLE	$	75.00	$	75.00
1	CA02187	ADD: KEYLOADING CABLE ADAPTER (GCAI)	$	41.50	$	41.50
1	CA01803	ADD: KVL 4000 SLEEVE COVER	$	75.00	$	75.00
1	SVC	Install/Programming/Flashing	$	3,180.00	$	3,180.00

Total Additions $ 409,876.35

Total Credits $ (155,800.00)

Total w/ Tradeout Credit $ 254,076.35

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