

KWIEC Review - CY 2022

The KWIEC adheres to the annual guidance issued by the Federal Cybersecurity and Infrastructure Security Agency / Emergency Communications Division (ECD) and the State Communications Interoperability Plan (SCIP). Fill out the below portions of this form completely and submit it according to the instruction at www.KWIEC.ky.gov. Any submission not filled out fully or missing attachments cannot be processed.

**KWIEC
Tracking #:
2022-058**

Contact and Agency Information

Agency Name:	Marshall Co EM		
Project Manager:	Whipple Walker	Phone #:	270 527 4739
E-Mail:	whipple.walker@marshallcountky.gov	Zip Code:	42025
City:	Benton	County:	Marshall

Project Information

Short Project Title:	Repeater Replacement		
Type of Project:	Infrastructure	Radio Class:	Digital - Includes both P-25 & non-P25

Project Description - Do not justify the Project's need. Simply explain the technical reasons for doing the project and what your goal is. Ensure you indicate the type of broadcast mode that will be used and list all emissions designators that will be licensed to this system.

Our existing repeater is a Motorola Quantar T3565 which is past its end of life and replacement parts are no longer available. This repeater is used to trigger our Outdoor Warning Sirens as well as voice communications during emergency operations it is analog only. The replacement a Motorola GTR8000 is a mixed mode repeater which supports analog (11K2F3E) as well P25 (8K00F1D).

Equipment (Only Major items)

Qty	Make	Model	Short Description	Eq Type	Cost Each	Subtotal
1	Motorola	GTR8000	Repeater	Repeater	\$27,264.17	\$27,264.17
				<Eq Type>		
				<Eq Type>		
				<Eq Type>		
				<Eq Type>		
				<Eq Type>		
				<Eq Type>		
				<Eq Type>		
Auto-Calculated Total Cost →						\$27,264.17

Submit the following documents (As required)

1	This form - completely filled out and in excel format. Do not scan to pdf. (Required)	Complete
2	Attach Vendor quote listing equipment and services requested. (Required)	Complete
3	Written justification for equipment that contains any type of non-P-25 digital voice mode.	Complete
4	Project plan showing how you intend to update to a P-25 system (Required for other than P-25).	Complete
5	Propagation Studies and Network Diagram (Recommended for Infrastructure Projects).	N/A

Answer all of the following questions (Yes/No)

6	Do you have a signed Mutual Aid MOU with the Kentucky State Police?	Yes
7	Have your voice radios been programmed with Mutual Aid frequencies?	Yes
8	Will you participate in the annual Mutual Aid Communications Exercise?	Yes
9	Are you partnering with other agencies to procure this equipment? (List below)	No

Partners: →

KWIEC Review (Do not fill out anything below this line)

This wireless communications project was reviewed in accordance with KRS 42.738.



**KWIEC
Comments:**

KWIEC Findings:	Signature of Authorized KWIEC Agent:	Date
Project Complies with ECD Guidance:		3-Jan-2023

Kentucky Emergency Management Emergency
Management Performance Grant
Request for Additional EMA Funding Allocation – FY20 Grant Cycle

Jurisdiction	Marshall County	Applicant	Marshall County Fiscal Court
Address	1101 Main	City/Zip	42025
Contact Name	Whipple Walker	Telephone	270 205-0082

County Information

1) **Proposed Expenditure Description** (Do not list multiple expenditures on one application)

2) Refer to Information Sheet (Note: must list quantity)

Motorola GTR8000 Repeater

3) **Expenditure Justification** (Explain how expenditure supports the Emergency Management Program)

Refer to Information Sheet

Our existing repeater is a Motorola Quantar T3565.

It is Past it's End of Life Date and Replacement Parts are no longer available.

This repeater is used for Rescue Squad Operations and to trigger Outdoor Warning Sirens.

Proposed Funding (all funding received must be equally matched)

Refer to Information Sheet

Jurisdiction Share	EMPG Grant Share	Other (Specify)	Total Expenditure
\$ 13,632.09	\$ 13,632.08	\$	\$ 27,264.17

4) **Authorized Equipment List (AEL) Number Associated with Expenditure**

(Equipment must be approved for Emergency Management Performance Grant EMPG use). A full listing can be accessed at website: <http://www.fema.gov/authorized-equipment-list>

AEL # :

06CP-01-REPT

AEL Item Name:

Radio Repeater

Disclaimer: KYEM at its discretion reserves the right to withdraw, deobligate, restructure, or suspend funding for cause without notice.

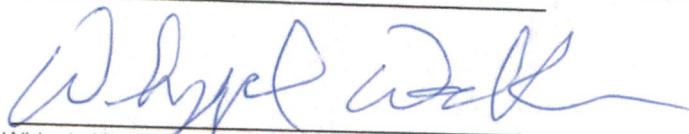
Applicant Certification:

I certify: This application has been authorized by the governing body of this jurisdiction. The applicant agrees to comply with all regulations under which funds are awarded. All funds will be used only for purposes approved in this application. Any equipment obtained specifically for use by the local EM Director and or agency will remain in custody of the local EM agency.

Applicant's Authorized Representative Signature

EM Director

11/07/22



Whipple Walker

For KYEM Use ONLY

Approval: _____ Date: _____

Director, Division of Emergency Management or Designee

Amount Approved: _____ Application Number: _____

Notes: _____

Billing Address:
 MARSHALL COUNTY FISCAL
 COURT
 50 JUDICIAL DR
 BENTON, KY 42025
 US

Quote Date: 11/02/2022
 Expiration Date: 01/01/2023
 Quote Created By:
 Kevin D. Yaden
 kevin.yaden@callmc.com

*Motorola
 Paducah*

End Customer:
 MARSHALL COUNTY FISCAL COURT
 Whipple Walker
 Whipple.Walker@marshallcountky.gov

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
GTR 8000 Base Radio						
1	T7039A	GTR 8000 BASE RADIO	1	\$0.00	\$0.00	\$0.00
1a	CA01946AA	ADD: CONV MIXED MODE OPERATION	1	\$0.00	\$0.00	\$0.00
1b	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	1	\$14,600.00	\$11,972.00	\$11,972.00
1c	CA03678AA	ADD: ASTRO SYSTEM RELEASE 2021.1	1	\$0.00	\$0.00	\$0.00
1d	X530BG	ADD: VHF (136-174 MHZ)	1	\$6,300.00	\$5,166.00	\$5,166.00
1e	X153AW	ADD: RACK MOUNT HARDWARE	1	\$50.00	\$41.00	\$41.00
Product Services						
2	LSV00Q00202A	DEVICE PROGRAMMING	1	\$178.57	\$178.57	\$178.57
3	LSV00Q00203A	DEVICE INSTALLATION	1	\$2,142.86	\$2,142.86	\$2,142.86
4	LSV00Q01073A	DEVICE MISCELLANEOUS DEVICE PARTS/EQUIPMENT	1	\$3,192.31	\$3,192.31	\$3,192.31
Product Services						
5	LSV00Q00203A	DEVICE INSTALLATION Tower Climb	1	\$4,571.43	\$4,571.43	\$4,571.43

Grand Total

\$27,264.17(USD)



Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.
 Motorola Solutions, Inc.: 500 West Monroe, United States - 60661 - #: 36-1115800

JENNINGS COMMUNICATIONS

4124 CROSSLAND ROAD

MURRAY, KY 42071

(270) 492-8820

jenningscomm@comcast.net

1/8/2023

Quotation for Marshall County Rescue

Repeater Hardware (1 site, 1 channel)

Quantity	Description	List	Cost Each	Total Cost
1	RFTechnology P25-C-E2-TRX150 P25-Digital Receive & Transmit (5 Watt) 136-174MHz	\$ 8,627.65	\$ 7,764.89	\$ 7,764.89
1	RFTechnology PA 136-174MHz 100W	\$ 2,961.40	\$ 2,665.26	\$ 2,665.26
1	RFTechnology SMPS12-3 Switched mode PSU 37.5A 12V	\$ 1,106.12	\$ 995.50	\$ 995.50
1	RFTechnology RF500-19 19inch rack frame nylon slide in rail guides 300mm deep	\$ 649.24	\$ 584.32	\$ 584.32
1	RFTechnology PCB - Complete Rack frame PCBPCB positioning of PS, PA,TS and E2 is required	\$ 759.22	\$ 683.30	\$ 683.30
3	COMSCOPE F1A-PNMNM-4 1/4" Superflex Jumper 4ft	\$ 48.80	\$ 43.92	\$ 131.76
1	Miscellaneous Installation Hardware		\$ 100.00	\$ 100.00
1	Shipping		\$ 200.00	\$ 200.00
1	Installation		\$ 1,200.00	\$ 1,200.00
			TOTAL	\$ 14,325.03

Repeater with P25 Total \$ 14,325.03

Jennings Communications and Consulting, LLC Proprietary Information

The information contained herein is the private property of Jennings Communications and Consulting, LLC that is being made available to the recipient. It may not be used, in whole or in part, except for the limited purpose for which it has been furnished. It may not be distributed or reproduced, except as specifically authorized by Jennings Communications and Consulting, LLC and with this legend conspicuously attached. This information is exempt from public disclosure under 5 U.S.C. 552(b)(4), and its use by Government personnel is subject to the restrictions imposed by 18 U.S.C. 1905.

Antennas/Coax

Quantity	Description	List	Cost Each	Total Cost
1	Andrew L4TNM-PSA N(M) Connector for Heliac	\$ 16.25	\$ 15.44	\$ 15.44
1	Andrew L4TNF-PSA N(F) Connector for Heliac	\$ 23.52	\$ 22.34	\$ 22.34
2	Andrew Solutions SG12-12B2U Heliac Ground Kit	\$ 25.60	\$ 25.09	\$ 50.18
1	Andrew Solutions L4SGRIP 1/2" Hoisting Grip	\$ 20.58	\$ 20.17	\$ 20.17
1	PolyPhaser IS-B50LN-C0 RF Lightning Arrestor, N(F), N(F) Bulkhead	\$ 93.98	\$ 92.10	\$ 92.10
1	MTS Wireless MT54696 8' Galvanized Pipe	\$ 217.10	\$ 206.25	\$ 206.25
1	COMSCOPE 1/2" Superflex Jumper N-Male to N-Male 8ft	\$ 154.12	\$ 138.71	\$ 138.71
1	Commander Technologies 220-3AN 150.5-158.5 MHz 5.25dBd Fiberglass Omni Antenna	\$ 1,248.00	\$ 1,123.20	\$ 1,123.20
1	Telewave TPRD-1556 144-174 MHz 6) 5" Cavity Pass Reject Base Station Duplexer	\$ 5,001.00	\$ 4,500.90	\$ 4,500.90
1	Telewave ANTC480 Dual Clamp Mounting Kit	\$ 165.77	\$ 162.45	\$ 162.45
1	Miscellaneous Installation Hardware		\$ 600.00	\$ 600.00
1	Shipping		\$ 800.00	\$ 800.00
1	Installation		\$ 3,000.00	\$ 3,000.00

TOTAL \$ 10,733.76

Antenna/Coax Total \$ 10,733.76 †

Repeater & Antenna TOTAL \$ 25,058.79

Licensing

Quantity	Description	List	Cost Each	Total Cost
2	Coordination	\$ -	\$ 230.00	\$ 460.00
2	Frequency Search	\$ -	\$ 400.00	\$ 800.00
1	601 Form	\$ -	\$ 200.00	\$ 200.00
2	Contour Analysis	\$ -	\$ 200.00	\$ 400.00

TOTAL \$ 1,860.00

System TOTAL \$ 26,918.79

* Assumes antenna at 180ft and existing rack space available at site for repeater installation.

** RFT system capable of future interconnection with standard P25 ISSI interface with additional software keys.

Jennings Communications and Consulting, LLC Proprietary Information

The information contained herein is the private property of Jennings Communications and Consulting, LLC that is being made available to the recipient. It may not be used, in whole or in part, except for the limited purpose for which it has been furnished. It may not be distributed or reproduced, except as specifically authorized by Jennings Communications and Consulting, LLC and with this legend conspicuously attached. This information is exempt from public disclosure under 5 U.S.C. 552(b)(4), and its use by Government personnel is subject to the restrictions imposed by 18 U.S.C. 1905.



Leaders in Public Safety Communications™

351 N Williamson Blvd.
Daytona Beach, FL 32114-1112
386-322-2500
(Tax ID# 63-0461885)

QUOTE

(Prepared by: Karen Sowers)

To:

Date: 12/19/2022

County of Marshall	
PO Box 525	
Benton, KY 42025	
	Call Sign(s): WREZ722
	FRN: 0001787381

SALESPERSON	P.O. NUMBER	DATE SHIPPED	SHIPPED VIA	F.O.B. POINT	TERMS
N/A	N/A	N/A	N/A	N/A	Net/30

DESCRIPTION	UNIT PRICE	AMOUNT
-------------	------------	--------

APCO Licensing Service fees, prepare form 601:		
Main form 601	\$150.00	\$150.00
Schedule D- site info	\$100.00	\$100.00
Schedule H- antenna info, frequency info	\$100.00	\$100.00
	LS Total	\$350.00
APCO Frequency Coordination/Processing Fees:		
Re-Coordinate frequencies 155.775 & 154.055 @ new site	\$210.00	\$420.00
	FC Total	\$420.00
<p><i>Please be advised that the fees for licensing services will be invoiced prior to the fees for frequency coordination. Please also note that during the frequency coordination process, it may be found that inter-service, engineering or re-coordination fees are required to complete your application. You will be notified if these fees are required.</i></p>		
TOTAL DUE		\$770.00

FEEES SUBJECT TO CHANGE WITHOUT NOTICE

IF YOU HAVE QUESTIONS CONCERNING THIS FEE QUOTE, PLEASE CALL (386) 944-2469.