# RESOLUTION ROCK COUNTY BOARD OF SUPERVISORS

Kathren Sukus INITIATED BY

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Public Safety and Justice SUBMITTED BY



Kathren Sukus, Director DRAFTED BY

January 22, 2019 DATE DRAFTED

# AUTHORIZATION FOR RADIO SYSTEM EQUIPMENT UPGRADE AND SIMULCAST

WHEREAS, the 911 Communications Center is responsible for the continuous operation of the public safety radio
 system infrastructure in Rock County; and,

WHEREAS, the MASTR III equipment (repeaters, base stations, and receivers) for the public safety radio system is at end of life for most channels and must be replaced over the next five years in order to maintain the integrity of the system; and,

**WHEREAS**, the County Tac Repeater, Rock Fire Central Repeater, and Beloit Tac 6 link will be the first channels updated; and,

WHEREAS, through feedback from Rock County public safety responders we have found that there are still portable radio coverage issues in certain parts of the county on County Tac and Rock Fire Central channels; and,

WHEREAS, at the same time of the equipment update for these channels simulcast will be added to improve portable radio coverage in Clinton, Edgerton, Milton, and the Town of Avon; and,

WHEREAS, General Communications, Inc. of Madison, Wisconsin is the maintenance provider for the Rock County public safety radio system infrastructure as well as the Communications Center's radio console equipment; and,

WHEREAS, total cost for equipment, configuration, programming, installation, and FCC frequency coordination for this project is \$673,390.99; and,

WHEREAS, this project was budgeted and funding is available.

NOW, THEREFORE, BE IT RESOLVED by the Rock County Board of Supervisors duly assembled this day of following, 2019 that a contract be awarded to General Communications, Inc. of Madison, Wisconsin, in the amount of \$673,390.99 to coordinate and implement this project.

Respectfully submitted,

PUBLIC SAFETY AND JUSTICE COMMITTEE

Mary Beaver, Chair
Phillip Owers

Terry Fell

Mare What Haves

Kara Hawes

Brian Knudson

ADMINISTRATIVE NOTE:

Recommended

Josh Smith
County Administrator

# FISCAL NOTE:

Funds were included in the 2019 budget for these two projects. These projects are being funded by sales tax revenue.

19-2A-182

Sherry Oja Finance Director

## LEGAL NOTE:

The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. In addition, sec. 59.52(29), Wis. Stats. requires the project to be let to the lowest responsible bidder. General Communications, Inc., is the sole source privider.

Richard Greenlee Corporation Counsel

## **EXECUTIVE SUMMARY**

In 2017 the Communications Center was notified that the Harris MASTR III equipment (repeaters, base stations, and receivers) that are required for every public safety radio channel in the County are at End of Life and must be replaced over the next five years. Most of this equipment was installed in the mid-1990's and 2001. The equipment was also re-used and converted to P25 (digital) in 2012 in order to save money during the countywide upgrade for the FCC narrow-banding mandate in 2013.

There are thirteen repeated channels that will need to be updated over the next several years. Approximately two to three channels will be updated per year until all are completed.

In 2019 the County Tac Repeater, Rock Fire Central Repeater, and Beloit Tac 6 link (for County Tac Repeater) will be updated. These channels are utilized regularly by all law enforcement and fire/EMS agencies in the County. At the same time as the update, simulcast will be added to the repeater channels to improve portable radio coverage as has already been done with the County Main and Rock Fire Main channels.

The total cost of the project is \$673,390.99 to include equipment, FCC licensing fees, configuration, programming, and installation. This project was budgeted and approved for 2019.

General Communications is the only certified Harris-Tait (radio system) and Mindshare (dispatch radio consoles) technician in the area and they are the maintenance provider for the Communications Center. Much of the equipment and labor for this project has been priced off NASPO and the State of Wisconsin contracts.



January 17, 2019

**Rock County Communications** 3636 N County Highway F Janesville, WI 53545

# RE: Radio System Upgrades

The following is our quote to upgrade the Rock TAC, Beloit TAC 6 and Rock Fire Central digital radio channels. Pricing is based off the NASPO and State of Wisconsin contracts where available. Hyperlinks are provided to each contract.

# Summary:

<u>Item</u>	NA	SPO Price
Rock TAC	\$	146,589.75
Beloit TAC 6	\$	68,587.25
Rock Fire Central	\$	192,268.25
Antenna System	\$	226,297.66
Console Interface	\$	39,648.08
Total:	\$	673,390,99

### Detailed Parts List:

	Rock TAC - 6 TX/RX & 3 RX Only					,	
<u>Otv</u>	Description	Part#	Contract	Contract #	<u>Vendor</u>	<u>NASPO</u>	Extended
6	Chassis, TB9400, Single, 100W	TB9435S-100H	NASPO	<u>06913</u>	Harris/Tait	\$ 909.75	\$ 5,458.50
6	Reciter, TB9400, 148-174 MHz	T01-01103-DAAA	NASPO	<u>06913</u>	Harris/Tait	\$ 4,557.00	\$ 27,342.00
6	Linear Pwr Amp, TB9400, 148-174 MHz, 100W	T01-01121-DBBA	NASPO	<u>06913</u>	Harris/Tait	\$ 1,914.00	\$ 11,484.00
6	PMU, TB9000, AC Aux 12	TBA30A0-0100	NASPO	<u>06913</u>	Harris/Tait	\$ 861.00	\$ 5,166.00
6	SFE - P25 Common Air Interface (CAI)	TBAS050	NASPO	<u>06913</u>	Harris/Tait	\$ 2,539.50	\$ 15,237.00
1	SFE - Central Voter	TBAS061	NASPO	<u>06913</u>	Harris/Tait	\$ 3,744.75	\$ 3,744.75
5	SFE - IP Networking Satellite	TBAS071	NASPO	<u>06913</u>	Harris/Tait	\$ 2,118.75	\$ 10,593.75
6	SFE - Simulcast Enable	TBAS062	NASPO	<u>06913</u>	Harris/Tait	\$ 2,118.75	\$ 12,712.50
3	Chassis, TB9400, Single Receiver x1	TB9444-RX1H	NASPO	06913	Harris/Tait	\$ 815.25	\$ 2,445.75
3	Rx Only, TB9400, 148-174 MHz	T01-01104-DAAA	NASPO	<u>06913</u>	Harris/Tait	\$ 2,267.25	\$ 6,801.75
3	PMU, TB9000, AC Aux 12	TBA30A0-0100	NASPO	<u>06913</u>	Harris/Tait	\$ 861.00	\$ 2,583.00
3	SFE - P25 Common Air Interface (CAI) Rx Only	TBAS050-R0	NASPO	06913	Harris/Tait	\$ 1,269.75	\$ 3,809.25
3	SFE - IP Networking Satellite, RX-Only	TBAS071-R0	NASPO	06913	Harris/Tait	\$ 295.50	\$ 886.50
1	FCC Licensing and Coordination	FCC	N/A	N/A	N/A	\$ 4,000.00	\$ 4,000.00
1	Miscellaneous Materials	Service Material	N/A	N/A	N/A	\$ 200.00	\$ 200.00
10	Grounding	Labor	NASPO	06913	Harris	\$ 150.00	\$ 1,500.00
30	Program Management	Labor	NASPO	06913	Harris	\$ 187.50	\$ 5,625.00
40	Equipment Configuration and system design	Labor	NASPO	<u>06913</u>	Harris	\$ 187.50	\$ 7,500.00
130	Equipment Installation	Labor	NASPO	<u>06913</u>	Harris	\$ 150.00	\$ 19,500.00
						Total:	\$ 146,589.75

### **Madison Office**

2880 Commerce Park Drive Madison, WI 53719 Local: (608)271-4848 Fax: (608)661-2935

### Milwaukee Office

N57 W13466 Reichert Avenue Menomonee Falls, WI 53051 Local: (262)439-2000 Fax: (262)439-2009 www.gencomm.com

Eau Claire, WI 54701 Local: (715)225-7604

Fax: (608)661-2935

**Eau Claire Office** 

3407 E Hamilton Avenue



	Beloit TAC 6 - 1 TX/RX & 5 RX Only								
Oty	Description		Part#		Contract	Contract#	Vendor	NASPO	Extended
1	Chassis, TB9400, Single, 100W			5S-100H	NASPO	06913	Harris/Tait	\$ 909.75	\$ 909.75
1	Reciter, TB9400, 440-480 MHz		T01-01	1103-LAAA	NASPO	06913	Harris/Tait	\$ 4,557.00	\$ 4,557.00
1	Linear Pwr Amp, TB9400, 440-480 MHz, 100	w	T01-01	1121-LAAA	NASPO	06913	Harris/Tait	\$ 1,914.00	\$ 1,914.00
1	PMU, TB9000, AC Aux 12			A0-0100	NASPO	06913	Harris/Tait	\$ 861.00	\$ 861.00
1	SFE - P25 Common Air Interface (CAI)		TBAS	050	NASPO	06913	Harris/Tait	\$ 2,539.50	\$ 2,539.50
1	SFE - Central Voter		TBAS		NASPO	06913	Harris/Tait	\$ 3,744.75	\$ 3,744.75
1	SFE - Simulcast Enable		TBAS		NASPO	06913	Harris/Tait	\$ 2,118.75	\$ 2,118.75
5	Chassis, TB9400, Single Receiver x1		TB944	4-RX1H	NASPO	06913	Harris/Tait	\$ 815.25	\$ 4,076.25
5	Rx Only, TB9400, 440-480MHz		T01-0	1104-LAAA	NASPO -	<u>06913</u>	Harris/Tait	\$ 2,267.25	\$ 11,336.25
5	PMU, TB9000, 12VACDC Aux 12V		TBA30	0A1-1100	NASPO	<u>06913</u>	Harris/Tait	\$ 1,223.25	\$ 6,116.25
5	SFE - P25 Common Air Interface (CAI) Rx O	nly	TBAS	050-R0	NASPO	06913	Harris/Tait	\$ 1,269.75	\$ 6,348.75
5	SFE - IP Networking Satellite, RX Only	•	FCC		NASPO	06913	Harris/Tait	\$ 295.50	\$ 1,477.50
1	FCC Licensing and Coordination		Service	e Material	N/A	N/A	N/A	\$ 1,500.00	\$ 1,500.00
1	Miscellaneous Materials		Labor		N/A	N/A	N/A	\$ 200.00	\$ 200.00
8	Grounding		Labor		NASPO	06913	Harris	\$ 150.00	\$ 1,200.00
25	Program Management		Labor		NASPO	06913	Harris	\$ 187.50	\$ 4,687.50
100	Equipment Installation		Labor		NASPO	06913	Harris	\$ 150.00	\$ 15,000.00
	1 <del>1</del>							Total:	\$ 68,587.25
							•		
	Rock Fire Central - 6 TX/RX & 9 RX Only								
<u>Otv</u>	<b>Description</b>		Part#		Contract	Contract#	<u>Vendor</u>	NASPO	Extended
6	Chassis, TB9400, Single, 100W		TB943	5S-100H	NASPO	06913	Harris/Tait	\$ 909.75	\$ 5,458.50
6	Reciter, TB9400, 148-174 MHz	T01-01103-D		1103-DAAA	NASPO	06913	Harris/Tait	\$ 4,557.00	\$ 27,342.00
6	Linear Pwr Amp, TB9400, 148-174 MHz, 100	W	T01-01121-DBBA		NASPO	06913	Harris/Tait	\$ 1,914.00	\$ 11,484.00
6	PMU, TB9000, AC Aux 12		TBA30A0-0100		NASPO	06913	Harris/Tait	\$ 861.00	\$ 5,166.00
6	SFE - P25 Common Air Interface (CAI)		TBAS050		NASPO	06913	Harris/Tait	\$ 2,539.50	\$ 15,237.00
2	SFE - Central Voter	٠.	TBAS	061	NASPO	06913	Harris/Tait	\$ 3,744.75	\$ 7,489.50
4	SFE - IP Networking Satellite		TBAS	071	NASPO	06913	Harris/Tait	\$ 2,118.75	\$ 8,475.00
. 6	SFE - Simulcast Enable		TBAS	062	NASPO	06913	Harris/Tait	\$ 2,118.75	\$ 12,712.50
9	Chassis, TB9400, Single Receiver x1		TB944	4-RX1H	NASPO	06913	Harris/Tait	\$ 815.25	\$ 7,337.25
9	Rx Only, TB9400, 148-174 MHz		T01-01104-DAAA		NASPO	06913	Harris/Tait	\$ 2,267.25	\$ 20,405.25
9	PMU, TB9000, AC Aux 12		TBA30A0-0100		NASPO	06913	Harris/Tait	\$ 861.00	\$ 7,749.00
9	SFE - P25 Common Air Interface (CAI) Rx O	nly	TBAS050-R0		NASPO	06913	Harris/Tait	\$ 1,269.75	\$ 11,427.75
9	SFE - IP Networking Satellite		TBAS071-R0		NASPO		Harris/Tait	\$ 295.50	\$ 2,659.50
1	FCC Licensing and Coordination		FCC		N/A	N/A	N/A	\$ 4,000.00	\$ 4,000.00
1	Miscellaneous Materials		Service Material		N/A	N/A	N/A	\$ 400.00	\$ 400.00
12	Grounding		Labor		NASPO	06913	Harris	\$ 150.00	\$ 1,800.00
30	Program Management		Labor		NASPO	06913	Harris	\$ 187.50	\$ 5,625.00
40	Equipment Configuration and system design		Labor		NASPO	06913	Harris	\$ 187.50	\$ 7,500.00
200	Equipment Installation		Labor		NASPO	06913	Harris	\$ 150.00	\$ 30,000.00
								Total:	\$ 192,268.25
	Automa Swatom			•					
Ωte	Antenna System  Description Part	t #		Contract	Contract#	Vendor	NASPO	Extend	<u>ed</u>
Otv 6		\$4569		N/A	N/A	Comprod	\$ 25,675.31	\$ 154,051	
2	Dual VHF Antenna for Watertower 845-			N/A	N/A	Comprod	\$ 1,356.30	\$ 2,712	
8	<del></del>	F-70SM		N/A	N/A	Comprod	\$ 1,467.00	\$ 11,736	
8 12	Filter, Lightning, 125-1000 7239			NASPO	06913	Harris	\$ 90.00	\$ 1,080	
400	1 1.001, 2.18.11.11.18, 120 1000	12-50J		NASPO	06913	Harris	\$ 2.48		0.00
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60 500 46 33 1 1 6	1/2" Superflex Connectors 1/4" Superflex Cable 1/4" Superflex Connectors Network Patch Cable Miscellaneous Materials Shipping Equipment Installation, Antenna	CN-015467-001 CA-015465-001 CN-018354-001 N200-010-BL Service Material Shipping Labor	NASPO NASPO NASPO N/A N/A N/A NASPO	06913 06913 06913 N/A N/A N/A N/A 06913	Harris Harris Tessco N/A N/A Harris	\$ 36.00 1.76 27.00 7.51 200.00 3,000.00 4,000.00	-	877.50 1,242.00 247.68 200.00 3,000.00 24,000.00	
6	Equipment Installation	Labor	NASPO	06913	Harris	\$ 4,000.00 <b>Total:</b>	_	24,000.00 <b>226,297.66</b>	_

	Console Interface								
Otv 1	<u>Description</u> Mindshare DESI Interface	<u>Part #</u> 750M-P25-201 MS-	<u>Contract</u> State of	Contract # 13-5458	<u>Vendor</u> Mindshare	<u>NAS</u> \$ 15,60			xtended 5,600.00
•	Redundant P25 DFSI	CAR-GS-R	Wis						
1	Mindshare High Availability DFSI License	750M-P25-211 MS- CAR-GS-HA	State of Wis	13-5458	Mindshare	\$ 9,34	18.48	\$ 9	9,348.48
3	CAR Stream License, Per DFSI radio connection	750M-P25-210 MS- CAR-GS-ST	State of Wis	<u>13-5458</u>	Mindshare	\$ 1,48	33.20	\$ 4	4,449.60
1	Miscellaneous Materials	Miscellaneous	N/A	N/A	N/A	\$ 20	00.00	\$	200.00
20	Equipment Configuration and system design	Labor	NASPO	06913	Harris	\$ 18	37.50	\$ :	3,750.00
42	Installation and Configuration	Labor	NASPO -	06913	Harris	\$ 15	50.00	\$ (	6,300.00
						•	Fotal:	\$ 3	9,648.08

Note: FCC must approve all new simulcast transmit sites before we can start transmitting at those sites.

If you have any questions, please email <a href="mailto:rwestgard@gencomm.com">rwestgard@gencomm.com</a> or call 608-310-7127.

Sincerely,

Rich Westgard

Rich Westgard Service Manager

2880 Commerce Park Drive Madison, WI 53719 Local: (608)271-4848 Fax: (608)661-2935 N57 W13466 Reichert Avenue Menomonee Falls, WI 53051 Local: (262)439-2000 Fax: (262)439-2009 www.gencomm.com Eau Claire Office 3407 E Hamilton Avenue

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