

**RESOLUTION
ROCK COUNTY BOARD OF SUPERVISORS**

Kathren Sucus
INITIATED BY



Kathren Sucus, Director
DRAFTED BY

Public Safety and Justice
SUBMITTED BY

January 20, 2020
DATE DRAFTED

AUTHORIZATION FOR RADIO SYSTEM EQUIPMENT UPGRADE AND SIMULCAST

1 **WHEREAS**, the 911 Communications Center is responsible for the continuous operation of the public
2 safety radio system infrastructure in Rock County; and,
3
4 **WHEREAS**, the MASTR III equipment (repeaters, base stations, and receivers) for the public safety
5 radio system is at end of life for most channels and must be replaced over the next several years in order
6 to maintain the integrity of the system; and,
7
8 **WHEREAS**, County Tac Repeater, Rock Fire Central Repeater, and Beloit Tac 6 are scheduled to be
9 updated with the new MASTR III equipment in 2020; and,
10
11 **WHEREAS**, at the same time of the MASTR III equipment update for these channels simulcast will be
12 added to the repeater channels to improve portable radio coverage in Clinton, Edgerton, Milton, and the
13 Town of Avon; and,
14
15 **WHEREAS**, General Communications, Inc. of Madison, Wisconsin is the maintenance provider for the
16 Rock County public safety radio system infrastructure as well as the Communications Center's radio
17 console equipment; and,
18
19 **WHEREAS**, total cost for equipment, configuration, and programming for this project is \$539,445.01;
20 and,
21
22 **WHEREAS**, this project was budgeted and funding is available.
23
24 **NOW, THEREFORE, BE IT RESOLVED** by the Rock County Board of Supervisors duly assembled
25 this 13th day of February, 2020 that a contract be awarded to General Communications,
26 Inc. of Madison, Wisconsin, in the amount of \$539,445.01 to coordinate and implement this project.

20-2A-412

Respectfully submitted,

PUBLIC SAFETY AND JUSTICE COMMITTEE

Mary Beaver
Mary Beaver, Chair

Phillip Owens
Phillip Owens, Vice-Chair

Ronald Bomkamp
Ronald Bomkamp

Terry Fell
Terry Fell

Brian Knudson
Brian Knudson

AUTHORIZATION FOR RADIO SYSTEM EQUIPMENT UPGRADE AND SIMULCAST

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FISCAL NOTE:

Sufficient funds were included in the 2020 budget for the cost of this project. This project is being funded by sales tax revenue.



Sherry Oja
Finance Director

LEGAL NOTE:

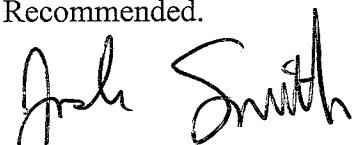
The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. In addition, sec. 59.52(29), Wis. Stats. requires the project to be let to the lowest responsible bidder. General Communications is the only certified Harris-Tait and Mindshare technician in the area.



Bridget Laurent
Deputy Corporation Counsel

ADMINISTRATIVE NOTE:

Recommended.



Josh Smith
County Administrator

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 within the next five years. Most of this equipment was installed in the mid-1990's and 2001. The same equipment was also re-used and converted to P25 (digital) in 2012 as an effort to cut costs during the countywide narrow-banding project in 2013.

In 2019 the County Tac Repeater, Rock Fire Central Repeater, and Beloit Tac 6 link were approved and scheduled to be updated. Due to FCC conflicts on one of the frequencies, the upgrade project schedule was adjusted and County Main, Rock Fire Main Repeaters and Beloit Tac 5 link were upgraded instead. Now that those FCC conflicts have been resolved we are able to move forward to upgrade County Tac Repeater, Rock Fire Central Repeater and the Beloit Tac 6 link in 2020. We will also be adding simulcast to the repeater channels to improve portable radio coverage so it mirrors the coverage on the main repeated channels.

The total cost of the project is \$539,445.01 to include equipment, FCC licensing fees, configuration, programming and installation. This project was budgeted and approved for 2020.

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 20, 2020

Jodi Millis
Purchasing Manager
Rock County Courthouse
51 S Main Street
Janesville WI 53545

Dear Ms. Mills,

I am pleased to inform you that General Communications of Madison, Wisconsin, is the only Harris/Tait authorized reseller covering the Rock County Wisconsin area. In addition, General Communications is an Authorized Service Center (ASC) which means they have made substantial investments in people and facilities. Their technicians are fully trained and qualified to maintain and repair Harris/Tait equipment.

Sincerely,

Tim Romanelli
Regional Manager
Harris Public Safety and Professional Communications
p. 630-240-4862
tromanell@harris.com



January 20, 2020

General Communications, Inc.
2880 Commerce Park Drive
Madison, WI 53719
Attention: G. Pelletier – General Manager

Gary,

Please accept this letter as verification that General Communications, Inc. is the only Factory Certified Sales / Technical Service Dealer certified by CSS-Mindshare in the Wisconsin area.

Should there be a requirement for further documentation and /or clarification in this regard, please don't hesitate to contact me.

Regards,

A handwritten signature in black ink that reads "Jack Hines". The signature is fluid and cursive, with a large initial "J" and "H".

Jack Hines – General Manager

563.387.7475

jackh@css-mindshare.com



January 17, 2020

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:

Item	NASPO Price
Rock TAC	\$143,075.25
Beloit TAC 6	\$74,864.00
Rock Fire Central	\$181,487.75
Rock Fire/ Rock Main	\$11,545.50
Console Interface	\$15,599.60
<u>Antenna System</u>	<u>\$112,872.91</u>
Total:	\$539,445.01

Rock TAC - 6 TX/RX & 5 RX Only

Qty	Description	Part #	Contract	Contract #	Vendor	NASPO	Ext NASPO
6	Chassis, TB9400, Single, 100W	TB9435S-100H	NASPO	6913	Harris/Tait	\$958.50	\$5,751.00
5	Rx Only, TB9400, 148-174 MHz	T01-01104-DAAA	NASPO	6913	Harris/Tait	\$1,139.25	\$5,696.25
6	Reciter, TB9400, 148-174 MHz	T01-01103-DAAA	NASPO	6913	Harris/Tait	\$1,704.00	\$10,224.00
6	Linear PWR Amp, TB9400, 148-174 MHz, 100W	T01-01121-DBBA	NASPO	6913	Harris/Tait	\$1,378.50	\$8,271.00
5	Harris upgrade Kit, Single Channel	T01-01150-0003	NASPO	6913	Harris/Tait	\$53.25	\$266.25
5	PMU, TB9000, AC, DC 12, Aux 12	TBA30A1-1100	NASPO	6913	Harris/Tait	\$1,875.75	\$9,378.75
6	SFE - P25 Common Air Interface (CAI)	TBAS050	NASPO	6913	Harris/Tait	\$4,837.50	\$29,025.00
5	SFE - P25 Common Air Interface (CAI) Rx Only	TBAS050-R0	NASPO	6913	Harris/Tait	\$2,418.75	\$12,093.75
1	DFSI	TBAS060	NASPO	6913	Harris/Tait	\$392.25	\$392.25
1	SFE - Central Voter	TBAS061	NASPO	6913	Harris/Tait	\$3,619.50	\$3,619.50
6	SFE - Simulcast Enable	TBAS062	NASPO	6913	Harris/Tait	\$2,047.50	\$12,285.00
5	SFE - IP Networking Satellite	TBAS071	NASPO	6913	Harris/Tait	\$570.75	\$2,853.75
5	SFE - IP Networking Satellite, RX-Only	TBAS071-R0	NASPO	6913	Harris/Tait	\$285.75	\$1,428.75
1	FCC Licensing and Coordination	FCC	N/A	N/A	N/A	\$4,000.00	\$4,000.00
1	Shipping	Shipping	N/A	N/A	N/A	\$500.00	\$500.00
1	Miscellaneous Materials	Service Material	N/A	N/A	N/A	\$200.00	\$200.00
10	Grounding	Labor	NASPO	6913	Harris	\$150.00	\$1,500.00
30	Program Management	Labor	NASPO	6913	Harris	\$187.00	\$5,610.00

Madison Office

2880 Commerce Park Drive
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Local: (608)271-4848
Fax: (608)661-2935

Milwaukee Office

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www.gencomm.com

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3407 E Hamilton Avenue
Eau Claire, WI 54701
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40	Equipment Configuration and system design	Labor	NASPO	6913	Harris	\$187.00	\$7,480.00
150	Equipment Installation	Labor	NASPO	6913	Harris	\$150.00	\$22,500.00
						Total:	\$143,075.25

12/30/2019

Beloit TAC 6 - 1 TX/RX & 5 RX Only

Qty	Description	Part #	Contract	Contract #	Vendor	NASPO	Ext NASPO
1	Chassis, TB9400, Single, 100W	TB9435S-100H	NASPO	6913	Harris/Tait	\$958.50	\$958.50
1	Reciter, TB9400, 440-480 MHz	T01-01103-LAAA	NASPO	6913	Harris/Tait	\$1,704.00	\$1,704.00
5	Rx Only, TB9400, 440-480MHz	T01-01104-LAAA	NASPO	6913	Harris/Tait	\$1,139.25	\$5,696.25
1	Linear Pwr Amp, TB9400, 440-480 MHz, 100W	T01-01121-LBAA	NASPO	6913	Harris/Tait	\$949.50	\$949.50
5	Harris upgrade Kit, Single Channel	T01-01150-0003	NASPO	6913	Harris/Tait	\$53.25	\$266.25
5	PMU, TB9000, AC, DC 12, Aux 12	TBA30A1-1100	NASPO	6913	Harris/Tait	\$1,875.75	\$9,378.75
1	SFE - P25 Common Air Interface (CAI)	TBAS050	NASPO	6913	Harris/Tait	\$4,837.50	\$4,837.50
5	SFE - P25 Common Air Interface (CAI) Rx Only	TBAS050-R0	NASPO	6913	Harris/Tait	\$2,418.75	\$12,093.75
1	SFE - Central Voter	TBAS061	NASPO	6913	Harris/Tait	\$3,619.50	\$3,619.50
1	SFE - Simulcast Enable	TBAS062	NASPO	6913	Harris/Tait	\$2,047.50	\$2,047.50
5	SFE - IP Networking Satellite, RX-Only	TBAS071-R0	NASPO	6913	Harris/Tait	\$2,047.50	\$10,237.50
1	FCC Licensing and Coordination	Service Material	N/A	N/A	N/A	\$1,500.00	\$1,500.00
1	Shipping	Shipping	N/A	N/A	N/A	\$500.00	\$500.00
1	Miscellaneous Materials	Labor	N/A	N/A	N/A	\$200.00	\$200.00
8	Grounding	Labor	NASPO	6913	Harris	\$150.00	\$1,200.00
25	Program Management	Labor	NASPO	6913	Harris	\$187.00	\$4,675.00
100	Equipment Installation	Labor	NASPO	6913	Harris	\$150.00	\$15,000.00
						Total:	\$74,864.00

Rock Fire Central - 6 TX/RX & 10 RX Only

Qty	Description	Part #	Contract	Contract #	Vendor	NASPO	Ext NASPO
6	Chassis, TB9400, Single, 100W	TB9435S-100H	NASPO	6913	Harris/Tait	\$958.50	\$5,751.00
6	Reciter, TB9400, 148-174 MHz	T01-01103-DAAA	NASPO	6913	Harris/Tait	\$1,704.00	\$10,224.00
10	Rx Only, TB9400, 148-174 MHz	T01-01104-DAAA	NASPO	6913	Harris/Tait	\$1,139.25	\$11,392.50
6	Linear Pwr Amp, TB9400, 148-174 MHz, 100W	T01-01121-DBBA	NASPO	6913	Harris/Tait	\$1,378.50	\$8,271.00
10	Harris upgrade Kit, Single Channel	T01-01150-0003	NASPO	6913	Harris/Tait	\$53.25	\$532.50
10	PMU, TB9000, AC, DC 12, Aux 12	TBA30A1-1100	NASPO	6913	Harris/Tait	\$1,875.75	\$18,757.50
6	SFE - P25 Common Air Interface (CAI)	TBAS050	NASPO	6913	Harris/Tait	\$4,837.50	\$29,025.00
10	SFE - P25 Common Air Interface (CAI) Rx Only	TBAS050-R0	NASPO	6913	Harris/Tait	\$2,418.75	\$24,187.50
1	DFSI	TBAS060	NASPO	6913	Harris/Tait	\$392.25	\$392.25
2	SFE - Central Voter	TBAS061	NASPO	6913	Harris/Tait	\$3,619.50	\$7,239.00

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6	SFE - Simulcast Enable	TBAS062	NASPO	<u>6913</u>	Harris/Tait	\$2,047.50	\$12,285.00
4	SFE - IP Networking Satellite	TBAS071	NASPO	<u>6913</u>	Harris/Tait	\$570.75	\$2,283.00
10	SFE - IP Networking Satellite, RX-Only	TBAS071-R0	NASPO	<u>6913</u>	Harris/Tait	\$285.75	\$2,857.50
1	FCC Licensing and Coordination	FCC	N/A	N/A	N/A	\$4,000.00	\$4,000.00
1	Shipping	Shipping	N/A	N/A	N/A	\$500.00	\$500.00
1	Miscellaneous Materials	Service Material	N/A	N/A	N/A	\$400.00	\$400.00
12	Grounding	Labor	NASPO	<u>6913</u>	Harris	\$150.00	\$1,800.00
30	Program Management	Labor	NASPO	<u>6913</u>	Harris	\$187.00	\$5,610.00
40	Equipment Configuration and system design	Labor	NASPO	<u>6913</u>	Harris	\$187.00	\$7,480.00
190	Equipment Installation	Labor	NASPO	<u>6913</u>	Harris	\$150.00	\$28,500.00
						Total:	\$181,487.75

Rock Fire/ Rock Main

Qty	Description	Part #	Contract	Contract #	Vendor	NASPO	Ext NASPO
2	Rx Only, TB9400, 148-174 MHz	T01-01104-DAAA	NASPO	<u>6913</u>	Harris/Tait	\$1,139.25	\$2,278.50
2	PMU, TB9000, AC, DC 12, Aux 12	TBA30A1-1100	NASPO	<u>6913</u>	Harris/Tait	\$1,875.75	\$3,751.50
2	Harris upgrade Kit, Single Channel	T01-01150-0003	NASPO	<u>6913</u>	Harris/Tait	\$53.25	\$106.50
2	SFE - P25 Common Air Interface (CAI) Rx Only	TBAS050-R0	NASPO	<u>6913</u>	Harris/Tait	\$2,418.75	\$4,837.50
2	SFE - IP Networking Satellite, RX-Only	TBAS071-R0	NASPO	<u>6913</u>	Harris/Tait	\$285.75	\$571.50
						Total:	\$11,545.50

Console Interface

Qty	Description	Part #	Contract	Contract #	Vendor	NASPO	Ext NASPO
3	CAR Stream License, Per DFSI radio connection	750M-P25-210 MS-CAR-GS-ST	State of Wis	13-5458	Mindshare	\$1,483.20	\$4,449.60
1	Miscellaneous Materials	Miscellaneous	N/A	N/A	N/A	\$200.00	\$200.00
20	Equipment Configuration and system design	Labor	NASPO	<u>6913</u>	Harris	\$187.50	\$3,750.00
48	Installation and Configuration	Labor	NASPO	<u>6913</u>	Harris	\$150.00	\$7,200.00
						Total:	\$15,599.60

Antenna System

Qty	Description	Model Number	Contract	Contract #	Vendor	NASPO	Ext NASPO
400	7/8 Cable	LCF78-50JAA7	NASPO	<u>6913</u>	Harris	\$5.50	\$2,199.60
8	7/8 Ground kit	SG78-12B2U	NASPO	<u>6913</u>	Harris	\$20.92	\$167.33
4	7/8 Snap-in Hangers 10 Pack	SSH-78	NASPO	<u>6913</u>	Harris	\$27.00	\$108.00

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4	7/8" Connectors Male	NM-LCF78-C02	NASPO	6913	Harris	\$45.00	\$180.00
4	7/8" Connectors Female	NF-LCF78D01K	NASPO	6913	Harris	\$38.35	\$153.40
85	1/2" Superflex Connectors - N-Male Straight	NM-SCF12-D01	NASPO	6913	Harris	\$26.87	\$2,283.53
85	1/2" Superflex Connectors - N-Male Right Angle	NMR-SCF12-D01	NASPO	6913	Harris	\$48.60	\$4,131.00
1200	1/2" Superflex	SCF12-50J	NASPO	6913	Harris	\$2.48	\$2,976.00
6	Added Filters to Combiners	Comprod	N/A	N/A	Comprod	\$7,500.00	\$45,000.00
1	Belden LMR400 Cable 1000ft	9913	N/A	N/A	Tessco	\$1,724.00	\$1,724.00
50	RF Industries Male connector for LMR400	RFN-1006-3I	N/A	N/A	Tessco	\$12.42	\$621.00
45	RF Industries T Adapters	RFB-1130-5	N/A	N/A	Tessco	\$1.50	\$67.50
125	RG223 Connectors - BNC Crimp Straight	RFB-1106-2TC1	N/A	N/A	Tessco	\$5.75	\$718.75
75	RG223 Connectors - N-Male Crimp Straight	RFN-1005-C1	N/A	N/A	Tessco	\$10.00	\$750.00
1000	RG223 Cable	Belden 9273	N/A	N/A	Tessco	\$4.51	\$4,510.00
1	1000ft Box of Cat5 Cable	35437	N/A	N/A	Tessco	\$336.80	\$336.80
3	RJ45 Connectors - Bags of 50	AT8X8RCSC-24	N/A	N/A	Tessco	\$48.42	\$145.26
7	Battery Tender 4-Bank 12V	3101087	N/A	N/A	N/A	\$204.75	\$1,433.25
20	Battery for Backup Power	24MDC	N/A	N/A	N/A	\$99.00	\$1,980.00
1	Miscellaneous Materials	Miscellaneous	N/A	N/A	N/A	\$500.00	\$500.00
2	Lift Rental for Antenna Installation	Lift Rental	N/A	N/A	N/A	\$3,600.00	\$7,200.00
1	Shipping	Shipping	N/A	N/A	N/A	\$1,000.00	\$1,000.00
150	Cable Installation	Labor	NASPO	6913	Harris	\$150.00	\$22,500.00
65	Combiner Changes Installation	Labor	NASPO	6913	Harris	\$187.50	\$12,187.50
						Total:	\$112,872.91

Total:	\$539,445.01
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Note: FCC must approve all new simulcast transmit sites before we can start transmitting at those sites.

If you have any questions, please email rwestgard@gencomm.com or call 608-310-7127.

Sincerely,

Rich Westgard

Rich Westgard
Service Manager

Madison Office
2880 Commerce Park Drive
Madison, WI 53719
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