


ADAIR COUNTY COMMISSION MINUTES WEDNESDAY, NOVEMBER 12, 2014

Continued from page 515

IN REF. ORDER NO 8 Bid for Upgrade to Sheriff's Department Radio System



COMMAND 1
LAPARCA, DEER
COMMUNICATIONS
TECHNOLOGY

P.O. Box 83
Genevieve, MO 65023
972-253-8941

November 5th, 2014
Adair County Sheriff's Office
Kirkville, MO

VHF P25 Multi-Site Voted Repeater System- Upgrade

Command 1, LLC proposes to perform all of the upgrades requested for \$65,805.00.

This proposal includes:

Upgrading the existing analog only repeater on the ASCO channel to a Tait TB9100 base station. This will be 100 watt continuous duty repeater with integrated power amplifier and power supply. This is an IP enabled device that allows for remote monitoring and diagnostics of several parameters such as output power, antenna condition, cabinet temperature, and power supply voltage.

This system will include all of the hardware and software for multi-site voting/network operations, as well as P25 CA/Mixed Mode Operation. This repeater handles voting of multiple sites via software within the base station, with no additional voting/comparator components are required.

This repeater will be installed at the City's Burton Street Tower using the ACSO antenna and coax. The antenna will be replaced with an Andrew DB224A antenna. The repeater will be installed in the City equipment rack and will be grounded and cabled to meet the existing installation practices. Additionally, the new ACSO repeater will be protected with its own Tripp Lite UPS.

At the North and South Receiver sites, this upgrade will add a channel receiver module for the ACSO channel. This module will be mounted in the city's rack cabinet and will include the required software and network configuration to support Voting and P25 CA/Mixed Mode Operation. Additionally, the current antenna will be replaced with a 5db VHF antenna at each site.

For 911 Dispatch Center connectivity, a Tait 9100 series console gateway module will be added to the existing console interface system. It will be configured for mixed mode

operation to be selected in the same manner as the existing P25/analog channels already in use. The gateway module will include all of the software required for Voting, Network Operation, Analog Line Support, and MDC1200 conversion of P25 signaling.

This upgrade meets all of the requirements set forth in the RFP. The units in the field will be repeated in either analog or P25 mode based on the proper PL/DPL tone (in analog mode) or P25 NAC (in digital mode). The best signal will be voted and repeated in real time during a radio user's transmission.

Additionally, while not included in the RFP, we have included the costs to modify the FCC license for this channel. This modification is needed to add P25 emissions and remove wideband analog emissions as required by the FCC.

Payment Schedule - Terms

Command 1, LLC requests a payment schedule based on milestones that also helps us meet the December 31, 2014 deadline. The recommended plan includes 75% payment at time of order, an additional 15% at the time of equipment delivery, and a final 10% after installation and user acceptance.

Installation/Delivery Date

Command 1, LLC is committed to meeting the requested deadline of 12/31/2014. However, Command 1, LLC is not responsible for failure to meet the deadline due to order delays from the manufacturer or weather issues that prevent safe travel to the sites.

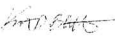
With that in mind, we will begin work on weather sensitive tasks and place all equipment orders as soon as the order has been processed. Based on previous project completion dates, 12/31/2014 is an obtainable goal, but if that is not met due to one of the above reasons, 1/31/2014 would be the latest in-service date for this upgrade.

Summary

Command 1, LLC has several years of experience in repeater systems, interoperability, console design and IP networking. Kurt Bleich, owner and principal systems installer, has a 4-year Bachelors of Science in Computer Information Systems, 7 years experience in enterprise systems administration, and 18 years of experience in public safety communications. Tait Systems have been successfully deployed in several locations throughout the State of Missouri, as well as throughout the United States. References are available upon request.

Thank you for this opportunity.

Kurt Bleich
Command 1, LLC



Command 1 - ACSO P25 Upgrade			
ITEM	Qty	Price	Total
Main Receive/Transmit Site			
Tait TB9100 TRAX ACDC Power	1	\$ 10,070.00	\$ 10,070.00
Tait TBAS052 TB9100 SFE Key - P25 Networking with Distributed Vote	1	\$ 8,500.00	\$ 8,500.00
Tait TBAS050 TB9100 SFE Key - P25 CAI	1	\$ 4,500.00	\$ 4,500.00
UPS TrippLite SU1500RTXL2UA	1	\$ 825.00	\$ 825.00
UPS Battery BP48V242U	1	\$ 550.00	\$ 550.00
Install - Transmit Site	1	\$ 1,000.00	\$ 1,000.00
Antenna Swap - Tower Climb and rigging	1	\$ 2,500.00	\$ 2,500.00
DB224A with brackets	1	\$ 875.00	\$ 875.00
North and South Receiver Sites			
Tait TB9100 Receiver RX Only	2	\$ 3,925.00	\$ 7,850.00
Tait TBAS051 RD TB9100 SFE Key - P25 Networking with Distributed V	2	\$ 4,250.00	\$ 8,500.00
Tait TBAS050 RD TB9100 SFE Key - P25 CAI	2	\$ 2,250.00	\$ 4,500.00
Install - Tower Climbs and programming	2	\$ 2,000.00	\$ 4,000.00
VHF G7 Antenna	2	\$ 650.00	\$ 1,300.00
911 Dispatch Connectivity			
Tait TB911 Console Gateway - 3 channel	1	\$ 6,477.00	\$ 6,477.00
Install - 911	1	\$ 2,000.00	\$ 2,000.00
Overall System			
Misc Jumpers, connectors, hardware	1	\$ 350.00	\$ 350.00
FCC Licensing	1	\$ 2,000.00	\$ 2,000.00
		Total	\$ 65,805.00

ATTEST:  County Clerk  Presiding Commissioner