

Please find attached below Request to Bid for Radio Maintenance in Fulton County, PA.

Key Dates/Times:

Question Deadline: Tuesday May 23, 2023 4:00 PM Eastern

Submittal Deadline: Tuesday May 30, 2023 8:30 AM Eastern

Bid Opening: Tuesday May 30, 2023 9:30 AM Eastern

Anticipated Maintenance Start Date: July 1, 2023 00:01 Eastern

Fulton County Pennsylvania

FULTON COUNTY



Pennsylvania

Request for Bid for Public Safety Radio Maintenance Support

Fulton County EMA/Public Safety
219 N Second St
McConnellsburg, PA 17233
717-485-3201
Brian Barton, Director

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1 INSTRUCTION TO VENDORS

The purpose of this bid is to provide maintenance support for the County's Motorola public safety radio system, which was installed in 2017 and 2018.

The selected prime contractor will provide a turn-key maintenance solution, to include "on-call" site repair and restoration services and preventive maintenance on the land mobile radio (LMR), dispatch consoles, and other equipment. The contractor must be capable of providing any warranty support for all parts and labor on the system, and software updates and security patches as provided by the respective manufacturers.

1.1 QUALIFICATIONS OF VENDORS

1.1.1 Each firm submitting a bid shall meet the following qualifications:

- 1.1.1.1 Vendors shall have been actively engaged in the sale of, manufacture of, and/or installation of equipment/services similar to the item(s) proposed in this Request for Bid (RFB) for a period of at least two years.
- 1.1.1.2 Systems utilizing equipment supplied by and similar to the equipment offered by the vendor, and of equal scope, shall have been installed and in continuous satisfactory operation for not less than one year in at least three installations.
- 1.1.1.3 The Board of Commissioners (hereinafter referred to as the County) requires that each potential vendor submit with its proposal three references of installations and maintenance similar in size and scope.
- 1.1.1.4 The County reserves the right to contact any reference supplied for an evaluation of past performance to establish the responsibility of the vendor before the actual award. In executing this proposal, the vendor agrees that the County may contact said references and be guided by their information in awarding the contract. The County may also request proof of financial stability from any successful proposal, which would be evaluated prior to award.
 - 1.1.1.4.1 References submitted should be no more than five years old.
 - 1.1.1.4.2 References shall include the name and location of the system, current contact person, telephone number, email address, and a brief description of the system.

1.1.2 Required submittals with the bid are as follows:

- 1.1.2.1 A brief history of the vendor/company submitting the bid.
- 1.1.2.2 A listing and brief history of all subcontractors to be utilized in the fulfillment or completion of the contract negotiated as a result of this RFB.

1.1.2.2.1 Under no condition shall the contractor change a subcontractor without the consent of the County after the contract has been awarded and negotiated.

1.1.2.3 The resume of the vendor's proposed key manager.

1.2 PROPOSAL GUARANTEE

1.2.1 Bid Security (Bond)

1.2.1.1 A valid bid bond in the amount of ten percent (10%) of the bid price must accompany the bid.

1.3 PRESENTATION OF BIDS

1.3.1 Bids must be made on the standard bid forms provided in the manner designated and required by the specifications.

1.3.2 Bids must be:

1.3.2.1 Enclosed in a sealed package(s) bearing the name and address of the vendor.

1.3.2.2 Clearly marked "Public Safety Radio Maintenance Support" on the outside of each package.

1.3.3 Two originals and two copies, clearly marked as "COPY," of the bid shall be provided in a separate common package.

1.3.4 Submission of the bid to the County shall be deemed consent for the bids to be publicly identified. The information contained therein shall be deemed a matter of public record, unless such information is designated by the party submitting the proposal as trade secrets or other information allowed to be kept confidential pursuant to the appropriate statutes of the Commonwealth of Pennsylvania.

1.3.4.1 In order to designate information as confidential, the party submitting the bid must highlight the information and inform the County of its desire to keep that information confidential in a letter transmitted with the bid.

1.3.4.2 The County, pursuant to Commonwealth of Pennsylvania laws and upon consultation with the County Solicitor, shall determine whether any information designated as confidential by the vendor is legally allowed to be kept confidential. Notice of such determination shall be made to the vendor prior to the release of the information to afford the vendor an opportunity to appeal the decision.

1.4 NO WITHDRAWAL OF BIDS

- 1.4.1 Bids may not be withdrawn for a period of 90 days after the date and time set for the bid opening.
- 1.4.2 The attachment of any conditions, limitations, or ancillary provisions by the vendor to its proposal will cause the bid to be classified as irregular and may render the bid subject to rejection.

1.5 EVALUATION

- 1.5.1 Evaluation of the bids shall be made within 60 days of the submission date.

1.6 AWARD OF CONTRACT

- 1.6.1 It is anticipated that the County will award the contract within 90 days after the receipt of bids.
- 1.6.2 Vendors shall include with their bid a statement of validity of the bid for at least 90 days.
- 1.6.3 The County reserves the right to waive or modify minor irregularities in bids received, utilize any and all ideas submitted in the bids, unless those ideas are covered by legal patent or proprietary rights, and generally adapt any or all of the company's bid in developing contract language. With regard to legal patent or proprietary rights, it shall be incumbent upon the party furnishing the bid to notify the County of such.

1.7 CONTRACT PROVISIONS

- 1.7.1 The successful vendor shall not assign, transfer, convey, sublet, or otherwise dispose of the contract or any part thereof without the written consent of the County.
- 1.7.2 Insurance
 - 1.7.2.1 Notwithstanding the terms, conditions, or provisions, in any other writing between the parties, the contractor hereby agrees to effectuate the naming of Fulton County, its officers, and employees as unrestricted additional insureds on the contractor's insurance policy, except for Workers' Compensation.
 - 1.7.2.2 All insurance policies naming the County, its officers, and employees as additional insureds shall:
 - 1.7.2.2.1 Be an insurance policy from an A.M. Best Rated A-Minus Pennsylvania State licensed insurer.
 - 1.7.2.2.2 Contain a 30-day notice of cancellation.

- 1.7.2.2.3 State that the organization's coverage shall be primary and non-contributory coverage for the County, its officers, and employees.
- 1.7.2.2.4 Contain by endorsement or otherwise, a waiver of subrogation against the County, its officers, and employees.
- 1.7.2.3 The contractor agrees to indemnify the County for any applicable deductibles.
- 1.7.2.4 Required limits of insurance:
 - 1.7.2.4.1 Commercial General Liability (CGL)—\$1,000,000 per occurrence/\$2,000,000 aggregate; \$2,000,000 products completed operations; \$1,000,000 advertising/personal injury; \$10,000 premises medical payments.
 - 1.7.2.4.2 If the General Liability coverage contains a general aggregate limit, such aggregate limit shall apply separately to each project—CGL coverage shall be written on ISO Occurrence Form CG 00 01 10 93 or substitute form providing equivalent coverage and shall cover liability arising from premises, operations, independent contractors, contractual liability, products completed operations, personal and advertising injury.
 - 1.7.2.4.3 Automobile Liability—\$1,000,000 combined single limit for hired/owned, hired and borrowed and non-owned motor vehicles.
 - 1.7.2.4.4 Workers' Compensation—Statutory Workers' Compensation and Employers Liability insurance for all employees.
 - 1.7.2.4.5 Owners/Contractors Protective Liability Insurance—\$1,000,000 per occurrence/\$2,000,000 aggregate with the County as the named insured.
 - 1.7.2.4.6 All Risk Installation Floater—Contractor shall provide "all risk" insurance for physical loss and damage including theft, vandalism and malicious mischief, collapse, and water damage. Insurance shall cover expenses or losses arising out of the aforesaid physical loss and/or damage including fees and charges of engineers, architects, attorneys, and other professionals. The insurance shall cover materials and work stored on and off the site or in transit.
 - 1.7.2.4.7 Contractor shall provide an Umbrella Liability Policy in the amount of \$2,000,000.
- 1.7.2.5 The contractor and all its subcontractors shall maintain the required insurance coverage for itself and all additional insureds for the duration of the project and

maintain completed operations coverage for itself and each additional insured for at least two years after completion of the work. Furnish proof of this coverage prior to final payment application.

- 1.7.2.6 The contractor acknowledges that failure to obtain such insurance on behalf of the County, its officers, and employees constitutes a material breach of contract and subjects it to liability for damages, indemnification, and all other legal remedies available to the County. The contractor is to provide the County with a Certificate of Insurance, evidencing that the above requirements have been met, upon request and not later than prior to the commencement of work or use of the facilities. The failure of the County to object to the contents of the Certificate or the absence of the same shall not be deemed a waiver of any and all rights held by the County.
- 1.7.2.7 In addition to the foregoing, the County may at any time request a copy of insurance policies providing the coverage required herein, and the contractor shall, within 10 days, furnish copies of said policies.
- 1.7.2.8 The contractor and its subcontractors waive all rights against the County and its agents, officers, and employees for recovery of damages to the extent these damages are covered by CGL, Automobile Liability, or Workers' Compensation or Contractors Liability insurance as above described.

1.7.3 Indemnification Clause

- 1.7.3.1 The contractor shall indemnify and hold harmless the County, its officers, directors, agents, and employees from and against any and all claims, demands, or causes of action for injury or death to persons or damage to property (including all costs and reasonable attorney's fees incurred in defending any claim, demand, or cause of action), arising out of or resulting from any negligent or wrongful acts, errors, omissions, negligence, incompetence, malfeasance, and misfeasance by the contractor, its employees, or agents, including subcontractors, in the performance of its obligations under the agreement to furnish the services and materials provided for in the proposal and any contractor agreement in furtherance thereof.

1.7.4 Tax Exempt Status

- 1.7.4.1 The bid prices submitted shall be exclusive of federal and state taxes and shall not include any tax for which the contractor may claim exemption because of doing business with the County by submission of the bid or response to the RFB. The vendor certifies there are no federal or state taxes included in the bid price. An exemption certificate will be furnished to the successful vendor.
- 1.7.4.2 Contract Documents

- 1.7.4.2.1 These specifications shall be attached to and become part of any contract documents resulting from the award of this contract to any vendor pursuant to this RFB.

1.8 NON-DISCRIMINATION CLAUSE

- 1.8.1 Contractors are required to comply with all non-discrimination standards established by the Commonwealth of Pennsylvania. Vendors, by submitting a bid, agree to comply with any and all such standards during the full term of any contract issued pursuant to this proposal.

1.9 NON-COLLUSION AFFIDAVIT

- 1.9.1 All bids must be accompanied by a non-collusive affidavit. (Reference Bid Forms)

1.10 EXCEPTIONS TO SPECIFICATIONS

- 1.10.1 Items in this specification that materially contribute to equipment reliability will not be compromised.
- 1.10.2 Where deviations from the specifications are necessary, the vendor must put in writing the said deviations, stating why, in their opinion, the plan and equipment will either exceed or render equivalent performance.
 - 1.10.2.1 Failure to detail all such deviations will provide grounds for rejection of the entire bid as unworthy of further consideration.
 - 1.10.2.2 Such deviation shall be referenced to the proper item and page in the bid specifications.

1.11 BID PACKAGE

- 1.11.1 To demonstrate total system knowledge and an understanding of requirements, vendors shall submit a bid package. This package shall include a paragraph-by-paragraph response for Sections 1, 2, 3 and 4. The responses can only be:
 - 1.11.1.1 Understood and will comply.
 - 1.11.1.1.1 The vendor meets all specifications and requirements.
 - 1.11.1.2 Clarification
 - 1.11.1.2.1 The vendor wishes to provide information regarding a specification/requirement for clarification purposes and does not materially affect the operation of the system. A written statement of the clarification must follow.

1.11.1.3 Exception

1.11.1.3.1 The vendor does not/cannot meet the specification/requirement.

1.11.2 The successful vendor, without claim for additional payment, shall provide any equipment required by the performance specifications and not specifically mentioned herein.

1.12 PREVAILING LAWS FOR PUBLIC WORKS

1.12.1 All applicable federal, state, and local laws pertaining to this contract are herewith made part of this specification.

1.12.2 Applicable Occupational Safety and Health Administration (OSHA) standards are to be followed.

1.12.3 The responsibility for direction and control of the work and materials belongs with the successful vendor's project manager, but the decision on any interpretation of this document shall be retained by the County and shall be final and binding.

1.13 DISPUTES

1.13.1 Except as otherwise provided by this document, any dispute concerning a question of fact arising under the provisions of this document, which if not disposed of by agreement, shall be decided by the County's authorized representative.

1.13.2 The County's authorized representatives will translate their decision to writing and either mail or furnish a copy thereof to the contractor.

1.13.3 Either party shall have the right of appeal from any decision and award as provided by law.

1.13.4 All legal disputes shall be adjudicated before the Fulton County Branch of the 39th Judicial District of the Commonwealth of Pennsylvania.

1.13.5 Pending final decision of a dispute, the contractor shall proceed diligently with the performance of this contract in accordance with the directions of the County's authorized representatives.

1.14 SUBMISSION OF BID CONSTITUTING AGREEMENT

1.14.1 Submission of a bid constitutes agreement to all terms and conditions set forth herein. By submitting a signed bid, the vendor:

1.14.1.1 Warrants that the contents of its bid are accurate and binding upon the vendor.

- 1.14.1.2 Represents that its staff is knowledgeable about the services to be provided as identified in this RFB.
- 1.14.1.3 Warrants that it will use reasonable and appropriate efforts to provide such services in a professional and timely manner.
- 1.14.2 Notwithstanding the details presented in these specifications, it is the responsibility of the vendor to verify the correctness of the material lists and suitability of devices to meet the specifications.
- 1.14.3 In addition, the vendor further warrants that it has become sufficiently acquainted with the conditions, facts, and circumstances regarding the requested services.
- 1.14.4 Failure or omission of the vendor to adequately acquaint themselves with existing conditions, facts, and circumstances shall not in any way relieve it of any obligations with respect to this RFB.

2 SPECIAL CONDITIONS

2.1 THE FOLLOWING CONDITIONS SHALL APPLY TO THE WHOLE OF THESE SPECIFICATIONS

- 2.1.1 The County reserves the right to reject any bid and to waive any informality or irregularity that, in the County's judgment, best serve its needs.
- 2.1.2 The County is not liable for any cost incurred by vendors in preparing this bid or for any other costs vendors may incur prior to issuance of a contract.
- 2.1.3 These specifications may only be modified in writing by the County. No verbal modifications of these specifications will be recognized.
- 2.1.4 If the vendor considers these specifications to be defective in any manner or is unable to respond because of some questions related to these specifications, terms, or conditions, please contact Sid McConahy in writing either by correspondence to Mission Critical Partners, LLC, 690 Gray's Wood Blvd., Port Matilda, PA 16870 or via email at sidmccconahy@missioncriticalpartners.com, no later than 4:00 p.m. Eastern Standard Time, Tuesday May 23, 2023. No verbal questions will be accepted.
- 2.1.5 To be considered, vendors must submit a complete response to this RFB, utilizing the format provided. Proposals must be signed by an official of the firm authorized to bind the vendor to the provisions of these specifications. The bid must remain valid for at least 90 days from the date of bid opening.

- 2.1.6 The successful vendor shall honor this contract even if its start is delayed as long as 90 days from the date of award. Notice to proceed will be given by the County on or before the expiration of the 90th day following the award.
- 2.1.7 The contract must be fully executed within 60 days after issuance of the Notice to Proceed.
- 2.1.8 The successful vendor must sign a contract with the County.

3 GENERAL CONDITIONS

3.1 PURPOSE

- 3.1.1 The purpose of this RFB is to solicit bids for the maintenance of the public safety radio system located in Fulton County, Pennsylvania.

3.2 INTENT

- 3.2.1 It is the intent of these specifications to set forth minimum requirements for ongoing maintenance of the installed system.

3.3 REQUIREMENTS

- 3.3.1 All bids shall utilize the Bid Pricing Sheet provided herein. All line items must be completed or the proposal response may be deemed noncompliant.
- 3.3.2 All bids must contain a statement signed by an authorized agent of the company on company letterhead certifying that they meet all legal requirements set forth in this RFB. Failure to provide this certification may result in the proposal being deemed noncompliant.

3.4 PRE-BID MEETING/SITE VISIT

- 3.4.1 No pre-proposal meeting will be held.
- 3.4.2 Potential vendors may make advance arrangements for onsite visits, if necessary, through Brian Barton, Emergency Management/911 Director, at 717-485-3201.

3.5 BID QUESTIONS

- 3.5.1 Questions pertaining to this RFB shall be directed in writing to the attention of Mr. Sid McConahy, either by correspondence to Mission Critical Partners, LLC, 690 Gray's Wood Blvd., Port Matilda, PA 16870 or via email to sidmccconahy@missioncriticalpartners.com, and be sent to arrive no later than 4:00 p.m. (Eastern Standard Time), Tuesday May 23, 2023. No verbal questions will be accepted.

3.6 BID REJECTION

3.6.1 The County reserves the right to reject any and/or all proposals for any reason.

3.7 EVALUATION OF BIDS

3.7.1 All bids shall be evaluated by the Emergency Management/911 Director and/or their designee and Mission Critical Partners.

3.8 BID DEADLINE

3.8.1 Bids will be received at the Fulton County Commissioner's Office, 116 W Market St., McConnellsburg, PA 17233 no later than Tuesday May 30, 2023 at 8:30 a.m. (Eastern Standard Time).

3.8.1.1 Bids will be opened and read during the scheduled Fulton County Commissioner's Meeting on Tuesday, May 30, 2023 at 9:30 a.m.

3.8.1.2 Late bids by mail, courier, or in person will be refused. The County will not accept any bids that are not delivered directly to the Commissioner's Office by the time indicated on the time stamp in the Commissioner's Office.

3.8.2 All bids must be submitted on the bid forms supplied. The County reserves the right to reject any bid, waive any informality in any bid, and accept any considered advantage to the County.

3.8.3 No bid may be withdrawn without the consent of the County for a period of 90 days after the date of bid opening.

3.8.4 The County reserves the right to solely determine if a vendor's bid is compliant with the specifications.

3.8.5 The decision of the County regarding the selection of a successful vendor is final.

3.9 PROPOSAL RESPONSE QUANTITIES

3.9.1 The County requires that vendors submit two original and two copies, clearly marked as COPY, of their bid.

3.10 IMPLEMENTATION TIMELINE

3.10.1 Maintenance begins on July 1, 2023, at midnight

3.11 SUPERVISION

3.11.1 The work to be performed by the successful vendor will be under the supervision of the Emergency Management/911 Director or their designees.

3.12 COORDINATION

3.12.1 The successful vendor must coordinate any system connections with the County's contracted vendors.

- Local dial-tone company – Brightspeed
- Microwave Network – ComPros, Inc.
- Fiber Network – Zito Media
- Computer-aided Dispatch System – Tyler Technologies
- Recorder – SBM Electronics

4 SPECIFICATIONS

4.1 INTENT

4.1.1 The purpose of this bid is to provide maintenance support for the current Motorola public safety radio system that was installed in 2017 and 2018.

4.1.2 The selected prime contractor will provide a turn-key maintenance solution, to include “on-call” site repair and restoration services and preventive maintenance on the land mobile radio (LMR), dispatch consoles, and other equipment. The contractor must be capable of providing any warranty support for all parts and labor on the system, and software updates and security patches as provided by the respective manufacturers. Costs shall be listed per year, paid monthly, expiring in five years on June30, 2028, with a one-year month-to-month extension.

4.1.3 On-Call Site Repair and Restoration Service

The contractor will be notified by the County when on-call repair and restoration service are required. The contractor must guarantee the following response times to be onsite to begin repair and restoration service:

- Critical Failure/Issue – maximum of two hours to be onsite and 4-hour restoration
- Major Failure/Issue – maximum of four hours to be onsite and 4-hour restoration
- Minor Issue – maximum of next business day
- Upgrades/Enhancements – planned and coordinated with the Emergency Management/911 Director

On-Call	System
Critical Failure	<ul style="list-style-type: none">• Dispatch site communication outage• Radio console subsystem outage• Phone subsystem outage

On-Call	System
	<ul style="list-style-type: none"> • One or more console operator position outages • Radio system outage • Radio site outage • Dispatch or radio site UPS outage • Both main and redundant LMR equipment outage
Major Failure	<ul style="list-style-type: none"> • Recording subsystem outage • CAD/RMS subsystem outage • Either main or redundant LMR equipment outage
Minor Failure	All else
Subscriber	<ul style="list-style-type: none"> • County vehicle or portable brought to contractor facility • County vehicle or portable at County facility

4.2 SYSTEM OVERVIEW AND SCOPE OF SERVICES

4.2.1 General

The high-level elements and services required for each subsystem and site are provided below. Specific equipment is listed in Appendix C.

4.2.1.1 LMR Subsystem

The public safety radio system is a Motorola UHF P25 conventional K-core system. There are three radio sites equipped with five simulcast/voting repeater channels. One channel is UHF analog and four are UHF digital; one digital channel is equipped with Motorola encryption.

Each site utilizes a UHF transmit combiner and a receive multicoupler. Each site has three RF antennas. The Tuscarora site has an additional UHF Med base station connected to the UHF transmit combiner and receive multicoupler and a VHF intercounty base station utilizing a separate antenna for both transmit and receive.

Two times a year, the contractor shall inspect and conduct preventive maintenance measurements and adjustments for the radio site LMR equipment per the manufacturer's requirements. The contractor shall coordinate with the County to conduct tests, repairs, and measurements for the LMR equipment, including operation up to FCC limits, and include the results in the quarterly report describing the status of all LMR equipment check list items, measurements, and repairs performed, and provide recommendations to the County for additional needed repairs.

Two times a year, the contractor shall inspect the LMR radio site facility and provide a report consisting of check lists, results, and recommendations to include the status of all equipment and the condition of the shelter interior, walls, roof, power, and grounding connections. The report shall include the condition of shelter exterior roof and walls, and site compound including security, gate, fencing, and ground systems as well as the status

of weeds and trees that pose a risk to operations and maintenance services. The report shall include the condition of the tower and attachments including lightning rods, cable ladder, climbing rig, antennas, cabling, and tower grounding subsystem. The contractor shall coordinate with the County for any tests and repairs being performed and include them in the report describing the repairs performed and provide recommendations to the County for additional maintenance/repairs needed in the future and advise the County of recommended repairs that are not within scope.

The radio towers do not have Federal Aviation Administration (FAA) demarcation (paint or light) but each tower must be fully inspected every three years and a detailed report provided to the County including identification and repair of rust and corrosion and treatments to maintain the towers to the specific design standards. The contractor shall coordinate with the County when each tower climb is required for preventive maintenance activities as well as for on-call restoration of service and perform tower climb activities following OSHA requirements for onsite personnel.

The contractor is responsible for on-call maintenance and restoration service for the LMR and UPS subsystem equipment at the three radio sites to include the base stations, transmit combiners, receive multicouplers and RF, audio, power, grounding, and interconnect cabling within the shelter and compound and on the tower.

4.2.1.2 Dispatch Console Subsystem

The dispatch center has two Motorola MCC 7500 remote radio consoles that are part of a shared console solution with Bedford County; there are four backup RF control stations at Fulton County dispatch center.

Two times a year, the contractor shall inspect the dispatch center equipment to confirm and test functional operation of the console operator positions and ancillary equipment (microphones, speakers, headsets, foot switches, etc.). The contractor shall inspect and test the backup RF control stations including the antennas, mounts, audio, RF cabling, and grounding. The contractor shall include the results in the quarterly report describing the status of all checklist items, measurements, and repairs performed, and provide recommendations to the County for additional needed repairs.

The contractor is responsible for on-call maintenance and repair of the backup RF control stations, dispatch operator equipment, and dispatch UPS subsystem equipment and must independently confirm the shared console subsystem equipment is functioning properly or if the County must notify the Bedford County contractor. The contractor must be able to work with the Bedford County contractor to confirm the proper operation of the Fulton County dispatch site(s) and subsystem(s).

The logging recorder, which is the responsibility of others, currently comes off the local control stations to a recorder punch block. The contractor shall ensure audio is on the recorder punch block. For the VESTA® system and phone sets, the equipment of which is the responsibility of others, the contractor shall be responsible for the operator headset

interface and console functions. There is currently no interface to the CAD system, which is the responsibility of others.

4.2.1.3 UPS Subsystems

Two times a year, the contractor shall inspect and conduct a preventive maintenance exercise for the radio site and dispatch center rack mounted UPS power subsystems per manufacturer requirements.

The contractor shall coordinate with the County to conduct a series of functional switchover tests to operate a respective site between commercial power, backup generator, and the UPS subsystem. The contractor shall perform necessary UPS subsystem tests, repairs, and measurements, including battery condition and status. The contractor shall include the results in the quarterly report describing the status of all checklist items, repairs performed, results of the functional switchover tests, and battery condition and provide recommendations to the County for additional needed repairs.

The contractor is responsible for on-call maintenance and restoration service for the LMR and UPS subsystem equipment at the dispatch center and the three radio sites to include power, grounding, and interconnect cabling.

4.2.1.4 Microwave and Network Subsystem

All sites are connected via a microwave ring and associated interface equipment. The microwave subsystem equipment maintenance and path performance responsibility is covered under a separate contract.

4.2.1.5 Subscriber Radios

The County operates three mobile APX series radios and ten portable APX series radios.

The Contractor shall inspect and conduct preventive maintenance activities on each subscriber radio no less than once per year. The Contractor will coordinate with the County during the radio and dispatch site preventive maintenance activities to perform manufacturer-recommended maintenance activities including software updates, RF measurements, calibration, and functional tests of the radios and ancillary equipment (e.g., vehicle installation, microphones, antennas, vehicle battery power, microphone clip/holder ground connection, portable antenna, main and backup battery test, battery charger, speaker-mic, speaker-mic-antenna tests, and condition of ancillary gear).

The results shall be included in the quarterly report describing the status of all checklist items, repairs performed, results of the functional tests and provide recommendations to the County for additional needed repairs or replacements. The Contractor will maintain an inventory list of subscriber and ancillary equipment with make, model, serial number, and most recent preventative maintenance date.

APPENDIX A: BID COST FORM

Entire System Maintenance Price—Year 1 (23-24) \$ _____

Entire System Maintenance Price—Year 2 (24-25) \$ _____

Entire System Maintenance Price—Year 3 (25-26) \$ _____

Entire System Maintenance Price—Year 4 (26-27) \$ _____

Entire System Maintenance Price—Year 5 (27-28) \$ _____

APPENDIX B: BID ANALYSIS FORM

The Bid Analysis Form specifies the four areas that each bid will be graded on. Each category has a minimum and maximum number of points available. These are identified beside each line item. The minimum number of points a bid can score, in total, is 0. The maximum number of points a bid can score, per evaluator, is 100. There will be three evaluators. A maximum total of 300 points can be achieved. The lower the total number, the lower the total evaluation of the bid. The higher the total number, the better the evaluation of the bid.

1. Cost **Score** _____
(0 to 20 Points)

2. Responses to the Request for Bid Questions **Score** _____
(0 to 40 Points)

3. Company Profile/ References **Score** _____
(0 to 20 Points)

4. Company's Existing Maintenance Contracts and Duration of Existence **Score** _____
(0 to 20 Points)

TOTAL POINT SCORE _____

Evaluator # 1 2 3 (circle one)

Evaluator's Signature _____

APPENDIX C: DETAILED EQUIPMENT LIST

DESCRIPTION	QTY
DISPATCH	
SINGLE ZONE CONV NON-RED CORE	1
Fortinet Firewall Appliance	1
APPLICATION SERVER	1
UEM LITE SESSION	1
UEM LITE ENHANCED NAVIGATION	1
VMWARE LICENSE	1
19 INCH NON-TOUCH MONITOR, BLACK	1
COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)	1
WINDOWS SUPPLEMENTAL TRANS CONFIG	1
MCAFFEE WINDOWS AV CLIENT	1
ASTRO LITE CLIENT APPL SW 7.16	1
2620-24 ETHERNET SWITCH	2
2620-24 ETHERNET SWITCH	1
GGM 8000 GATEWAY	1
LOW DENSITY ENH CONV GATEWAY	1
AC POWER	1
FORTINET FIREWALL APPLIANCE	1
FORTINET FIREWALL RECOVERY MEDIA	1
COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)	1
WINDOWS SUPPLEMENTAL TRANS CONFIG	1
MCAFFEE WINDOWS AV CLIENT	1
MKM 7000 Console Alias Manager Software	1
GGM 8000 GATEWAY	1
LOW DENSITY ENH CONV GATEWAY	1
UPS, 9130 RACKMT, 2KVA/1.8KW, 33 MINS RUNTIME	1
SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS	4
SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	5
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	1
2620-24 ETHERNET SWITCH	2
GGM 8000 GATEWAY	1

DESCRIPTION	QTY
LOW DENSITY ENH CONV GATEWAY	1
UPS, 9130 RACKMT, 2KVA/1.8KW, 33 MINS RUNTIME	1
SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS	4
SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	5
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	1
APX7500 SINGLE BAND UHF R2 MP	4
ASTRO DIGITAL CAI OPERATION	4
ENH: CONVENTIONAL OPERATION	4
FULL FP W/05/KEYPAD/CLOCK/VU	4
CONTROL STATION DESK GCAI MIC	4
APX CONSOLETTA RACK MOUNT KIT	4
MC2500 MULTI-CHANNEL DESKSET	4
450-512 MHz, 4 Ch. Combiner (HC116P1-04F)	1
CONTROL STATION ANTENNA SYSTEM	1
SITE MANAGER BASIC	1
AAD TERM BLCK & CONN WI	3
AUX I-O SERV FW CURR ASTRO REL	1
24/48 VDC PS TO SM	1
SITE MANAGER ADVANCED	1
90VAC TO 260VAC PS TO SM	1
SDM ASTRO RTU FW CURR ASTRO REL	1
SITE MANAGER ADVANCED	1
AAD TERM BLCK & CONN WI	3
24/48 VDC PS TO SM	1
SDM ASTRO RTU FW CURR ASTRO REL	1
RTU_PER_DEVICE_SW_LICENSES	1
RTU_SW_LIC_PER_NFM-RTU_I-O	1
RTU_SW_LIC_PER_GCP8000_CONV_CONTR	2
RTU_SW_LIC_PER_IP_MANAGED_DEVICE	6
SITE MANAGER ADVANCED	1
24/48 VDC PS TO SM	1

DESCRIPTION	QTY
AAD TERM BLCK & CONN WI	3
SDM ASTRO RTU FW CURR ASTRO REL	1
RTU_PER_DEVICE_SW_LICENSES	1
RTU_SW_LIC_PER_NFM-RTU_I-O	1
RTU_SW_LIC_PER_TRAK_GPS	1
RTU_SW_LIC_PER_GTR8000_MS_BR	5
RTU_SW_LIC_PER_IP_MANAGED_DEVICE	6
RTU_SW_LIC_PER_GCM8000_CONV_COMP	4
SITE MANAGER ADVANCED	1
24/48 VDC PS TO SM	1
AAD TERM BLCK & CONN WI	3
SDM ASTRO RTU FW CURR ASTRO REL	1
RTU_PER_DEVICE_SW_LICENSES	1
RTU_SW_LIC_PER_NFM-RTU_I-O	1
RTU_SW_LIC_PER_TRAK_GPS	1
RTU_SW_LIC_PER_GTR8000_MS_BR	5
RTU_SW_LIC_PER_IP_MANAGED_DEVICE	6
SITE MANAGER ADVANCED	1
24/48 VDC PS TO SM	1
AAD TERM BLCK & CONN WI	3
SDM ASTRO RTU FW CURR ASTRO REL	1
RTU_PER_DEVICE_SW_LICENSES	1
RTU_SW_LIC_PER_NFM-RTU_I-O	1
RTU_SW_LIC_PER_TRAK_GPS	1
RTU_SW_LIC_PER_GTR8000_MS_BR	5
RTU_SW_LIC_PER_IP_MANAGED_DEVICE	6
SITE MANAGER ADVANCED	1
24/48 VDC PS TO SM	1
AAD TERM BLCK & CONN WI	3
SDM ASTRO RTU FW CURR ASTRO REL	1
RTU_PER_DEVICE_SW_LICENSES	1
RTU_SW_LIC_PER_NFM-RTU_I-O	1

DESCRIPTION	QTY
RTU_SW_LIC_PER_TRAK_GPS	1
RTU_SW_LIC_PER_GTR8000_MS_BR	5
RTU_SW_LIC_PER_IP_MANAGED_DEVICE	6
2U/A-SERV/300MBPS/4TB.HDMI IP CAMERA DVR SERVER	1
22" Flat Panel LED Monitor	1
SURVEILLANCE KEYBOARD	1
TUSCARORA	
2620-24 ETHERNET SWITCH	2
GGM 8000 GATEWAY	1
DC POWER	1
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	1
FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	50
F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE	4
BIRD TECH 6 CH Combining Design	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1

DESCRIPTION	QTY
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
ANALOG ONLY CONV SW	1
ANALOG CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
POWER CABLE, DC	1
MLC 8000	1
ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	1
120/240VAC TO +12VDC POWER ADAPTER	1
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	1
GCM 8000 COMPARATOR	1
GCM 8000 COMPARATOR	2
ASTRO 25 CONVENTIONAL SOFTWARE	2
ASTRO 25 CONV SIMULCAST SW	2
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GCM 8000 COMPARATOR	1
GCM 8000 COMPARATOR	2
ASTRO 25 CONVENTIONAL SOFTWARE	2

DESCRIPTION	QTY
ASTRO 25 CONV SIMULCAST SW	2
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
MLC 8000	1
ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	1
120/240VAC TO +12VDC POWER ADAPTER	1
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	1
RACK 7' OPEN	3
PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	1
RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	1
SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	1
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	1
UPS, 9130 RACKMT, 1KVA/900W, 5 MIN RUN	1
SIDLING HILL	
2620-24 ETHERNET SWITCH	2
GGM 8000 GATEWAY	1
DC POWER	1
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	1
FOUR PORT DDM	2
FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	50
F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE	4
BIRD TECH 6 CH Combining Design	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1

DESCRIPTION	QTY
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
ANALOG ONLY CONV SW	1
ANALOG CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
MLC 8000	1
ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	1
120/240VAC TO +12VDC POWER ADAPTER	1
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	1
RACK 7' OPEN	3
PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	1
RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	1
SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	1
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	1
UPS, 9130 RACKMT, 1KVA/900W, 5 MIN RUN	1
TOWN HILL	
2620-24 ETHERNET SWITCH	2

DESCRIPTION	QTY
GGM 8000 GATEWAY	1
DC POWER	1
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	1
FOUR PORT DDM	2
FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	50
F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE	4
BIRD TECH 6 CH Combining Design	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
GTR 8000 Base Radio	1

DESCRIPTION	QTY
UHF R2 (435-524 MHZ)	1
ANALOG ONLY CONV SW	1
ANALOG CONVENTIONAL SIMULCAST SOFTWARE	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
MLC 8000	1
ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	1
120/240VAC TO +12VDC POWER ADAPTER	1
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	1
RACK 7' OPEN	3
PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	1
RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	1
SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	1
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	1
UPS, 9130 RACKMT, 1KVA/900W, 5 MIN RUN	1
ANTENNA SYSTEM ALL 3 SITES	
Tx Antenna & Line 1	
COLLINEAR OMNI, 9dBd, LOW pim, pip RATED, HD, 450-512 MHz	1
LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	15
L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	2
221213 CABLE WRAP WEATHERPROOFING	2
7/8IN HELIAX VIRTUAL AIR FOAM FILLED CORRUGATED CABLE (AVA5-50FX)/FOOT	190
7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)	2
SG78-06B2A GROUNDING KIT FOR 7/8 IN COAXIAL CABLE	5
L5SGRIP 7/8" SUPPORT HOIST GRIP	1
42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	7
RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	1
LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	25
L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	2
Tx Antenna & Line 2	

DESCRIPTION	QTY
COLLINEAR OMNI, 9dBd, LOW pim, pip RATED, HD, 450-512 MHz	1
LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	15
L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	2
221213 CABLE WRAP WEATHERPROOFING	2
7/8IN HELIAX VIRTUAL AIR FOAM FILLED CORREGATED CABLE (AVA5-50FX)/FOOT	190
7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)	2
SG78-06B2A GROUNDING KIT FOR 7/8 IN COAXIAL CABLE	5
L5SGRIP 7/8" SUPPORT HOIST GRIP	1
42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	7
RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	1
LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	25
L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	2
Rx Antenna & Line	
COLLINEAR OMNI, 9dBd, LOW pim, pip RATED, HD, 450-512 MHz	1
LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	15
L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE	1
L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	1
221213 CABLE WRAP WEATHERPROOFING	2
7/8IN HELIAX VIRTUAL AIR FOAM FILLED CORREGATED CABLE (AVA5-50FX)/FOOT	240
78EZNFM N FEMALE MOT CONNECTOR (MOTOROLA SPECIFIC)	2
SG78-06B2A GROUNDING KIT FOR 7/8 IN COAXIAL CABLE	5
L5SGRIP 7/8" SUPPORT HOIST GRIP	2
42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	7
RF SPD, 125-1000MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	1
FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT	25
F4PNMV2-HC 1/2" TYPE N MALE PLATED CONNECTOR	2
Alarms and Security 112 MP 360° CAMERAS	

DESCRIPTION	QTY
SPARES	
GGM 8000 GATEWAY	1
AC POWER	1
FRU: GGM 8000 LD ENH CONV GATEWAY MODULE	1
FRU: POWER SUPPLY	1
FRU: FAN MODULE	1
FRU: PA UHF R2	1
FRU: GCP 8000/GCM 8000	1
FOUR PORT DDM	2
DC INPUT POWER SUPPLY MODULE	1
2620-24 ETHERNET SWITCH	1
GTR 8000 Base Radio	1
UHF R2 (435-524 MHZ)	1
CONVENTIONAL SOFTWARE	1
ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	1
FALL BACK IN SIMULCAST CABINET REPEAT	1
RACK MOUNT HARDWARE	1
POWER CABLE, DC	1
FRU KIT, MLC8000	1
FRU: XCVR UHF R2 V2 W/OPTION CARD	1
FRU: GTR ANALOG 4W E&M SIMULCST KIT	1