

Sublette County, Wyoming
Radio Equipment Monitoring, Maintenance, Service, and Repair
Request for Proposals

RADIO EQUIPMENT MONITORING, MAINTENANCE, SERVICE, AND REPAIR

REQUEST FOR PROPOSALS

**SUBLETTE COUNTY, WYOMING
P.O. BOX 250
PINEDALE, WY 82941
PHONE: 307-367-4372**



GENERAL DESCRIPTION

Sublette County, WY is accepting quotes from experienced and qualified contractors to provide cost-effective solutions to monitor, maintain, service, and repair Sublette County's P25 VHF/UHF Phase I / II multicast trunked radio system; including all tower site infrastructure, all hardware and equipment, and all system software and firmware. Sublette County is seeking a contractor who has extensive experience with network monitoring and maintenance of L3Harris Vida Unite Cores, Symphony Consoles, VHF/UHF MASTR V base stations, Cambium microwave IP networks, Tait Conventional paging systems, ISSI and Interoperable Gateways, BeOn PTT-over cellular service, and P25 Eventide Logging Recorders.

THE SUBLETTE INTEROPERABLE RADIO SYSTEM (SIRS) SUMMARY:

- P25 VHF/UHF Phase I / II Multicast Trunked Radio System
- (2) Geo-redundant VIDA Unite Cores for Network System Control and Backup
- (6) RF VHF/UHF Tower Sites
- Cambium microwave backhaul IP network
- (4) Symphony Consoles
- Network Management and Administration System Control
- ISSI Interoperability to the WYOLINK VHF P25 System
- P25 Eventide Logging Recorder
- Encryption (AES)
- OTAR/OTAP
- VHF/UHF Digital Trunked Frequencies
- VHF Conventional Paging Network
- 150 BeOn User Licenses

At a minimum the contractor shall provide the following services. Additional information for each requirement is provided in detail within the RFP. Contractor shall perform 24/7/365 remote network monitoring, diagnostic, and repairs of the radio system. Contractor shall use the provided L3Harris Software FX software updates to perform all software and firmware updates as recommended in manufacturer maintenance manuals for the radio equipment. Contractor will perform regularly scheduled maintenance including tests, checks, and alignment on customer's equipment (cores, consoles, routers, repeater sites, radios, pagers, microwave backhaul, batteries, weeds, etc.) to ensure the all equipment meets specifications. Contractor will perform routine repairs, services, and hardware replacements as necessary. Contractor will perform emergency field services and repairs after damage from catastrophic events. Contractor will maintain, repair, and reprogram subscriber equipment as necessary. Contractor will ensure all existing FCC radio frequency licenses for the County are documented, filed, and maintained.

Preference will be given to resident Wyoming Contractors, use of Wyoming Subcontractors, and use of Wyoming supplied materials pursuant to Wyoming Statutes §§16-6-101, et. seq. Preference is hereby given to materials, supplies, agricultural products, equipment, machinery, and provisions produced, manufactured, or grown in Wyoming, or supplied by a resident of the state, quality being equal to articles offered by the competitors outside of the state pursuant to Wyoming Statutes §§16-6-104 through 106.

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Sublette County reserves the right to reject any or all bids or any part of any bid and waive any formality in any bid, for any reason as its best interest may appear. Sublette County further reserves the right to reject any bid if it believes it would not be in the best interest of the project to make an award to that bidder, whether because the bid is not responsive or the bidder is unqualified or of doubtful financial ability.

Contractor proposals should state how they will meet or exceed the services requested in this RFP. It is not the intent of this RFP to limit the bidder's services. If bidder would like to propose additional services, please call out those services out in your proposal.

PROPOSAL SPECIFICATION INFORMATION

It is the responsibility of all proposers to carefully read the entire Request for Proposal (RFP) which contains provisions applicable to successful submission and completion of a proposal. If you discover any ambiguity, inconsistency, or error in the RFP, please contact Matthew Gaffney, Sublette County Administrator via Matthew.Gaffney@SubletteWyo.com for clarification. Only written interpretations or corrections of the RFP made via email are binding. You shall not rely on interpretations or corrections made in any other way. All requests for interpretations or corrections must be received by Sublette County no later than ten days prior to the deadline for submitting proposals.

EXCEPTIONS

Any exceptions from this request for proposal specification must be called out in the contractor's proposal. Upon award of the proposal, an effort to consolidate the original specification and the contractor's proposal shall occur. Each of the exceptions from the Sublette County specification must be initialed and approved prior to contract execution.

RADIO EQUIPMENT COVERED UNDER AWARDED CONTRACT

Attachment A to this Request for Proposals is a listing of the equipment currently in use by the County which will be covered under awarded contract. The County does not wish to be limited to the individual items specifically noted in this RFP, but also needs the capability to add or delete equipment as necessary. If equipment is necessary to be added in the future, it will be addressed on a case-by-case basis with the contractor.

SCHEDULE

Release of RFP:	04/14/21
Site Visit	05/03/21
Proposals Due on or Before:	05/14/21
Review of Proposals Completed:	05/28/21
Final Proposal Decision:	06/01/21

SITE VISIT

A site visit will be held on 05/03/21 where all interested bidders may tour facilities and ask questions regarding bid specifications. Some of the radio tower sites may not be accessible due to snow melt, road conditions, and/or local weather conditions. If a proposer plans to attend the site visit, you must contact Matthew Gaffney, Sublette County Administrator via Matthew.Gaffney@SubletteWyo.com to make arrangements to travel to accessible sites.

SUBMISSION OF PROPOSALS

Each submitted proposal should include two (2) hard copies of the proposal and all supporting documentation bound together in a three-ring binder. Two (2) additional electronic PDF copies of the proposal and all supporting documentation should also be included on a USB flash drive. Each submitted proposal should include the following documentation:

1. The first page of the proposal should include the bidders pricing sheet with total contract price. If cost incentives are available, please provide specific information.
2. Each proposal should include the bidder's accurate and detailed written specifications of the proposal to monitor, maintain, service, and repair the Sublette Interoperable Radio System (SIRS).

Submitted materials may be subject to disclosure pursuant to the Wyoming Public Records Act, Wyo. Stat. Ann. §§ 16-4-201 et seq.

PROPOSAL DELIVERY

Submitted bids should be securely sealed and marked "Sublette County Radio System Maintenance Proposal" and mailed to the address below before the established close date. It is the bidder's responsibility to ensure that all documentation is received by the bid close date as defined herein below.

Sublette County
Attn: Matthew Gaffney
P.O. Box 250
Pinedale, WY 82941

PROPOSAL CLOSE DATE

All submitted proposals must be received before 05/14/21 at 5:00 PM. Any proposals received after this date and time, for any reason, will not be considered. No extensions shall be granted. Each proposal pricing must be valid for a period of forty-five (45) days after the bid closing date to allow time for review and award of the contract.

ORAL PRESENTATIONS

Based upon Sublette County's initial evaluation of the proposals received, Sublette County reserves the right to request an oral presentation and/or demonstration by the proposer. Proposers shall be prepared to discuss/demonstrate all aspects of their proposal in detail. More than one presentation may be required of some proposers at the request of Sublette County. Sublette County reserves the right to request a written statement from the proposer after any oral presentation.

COST LIABILITY

Sublette County is not liable for any costs incurred in responding to this RFP or in any presentation.

REVIEW OF PROPOSALS RECEIVED

All submitted proposal packages will be opened and reviewed by the Sublette County Board of County Commissioners after the bid close date. If there are any questions regarding the proposals, Sublette County will contact the bidder before 05/28/21 for clarification.

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QUOTE EVALUATION CRITERIA

All proposals received will be thoroughly reviewed. When analyzing the proposals, Sublette County has the discretion to prioritize any and all items in the received proposals to determine which proposal provides the best product for the best value that will best meet the needs of the County. When analyzing the bid proposals, Sublette County has the discretion to prioritize any and all items in the specification. Sublette County is not in any way obligated to accept the proposal with the lowest bid/cost nor to award any of the proposals received.

PROPOSAL REJECTION

Sublette County reserves the right to reject any and all proposals, to consider alternatives, to waive any irregularities, and to award any proposal deemed to be in the best interest of the County. Sublette County reserves the right to waive any formalities in the proposals received and to accept any items in the proposal as preferred.

CONTRACT AWARD

The Sublette County Board of County Commissioners may award a contract to the responsible bidder whose offer will be most advantageous regarding all factors considered.

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INSTRUCTIONS: BIDDER SHALL CIRCLE YES IF BID MEETS SPECIFICATIONS AND NO IF BIDDER TAKES EXCEPTION AND THEN PROVIDE AN EXPLANATION FOR YOUR SUGGESTED ALTERNATIVE.

1.0	REMOTE NETWORK MONITORING, ACCESS, FIREWALLS & VIRUS PROTECTION:	
1.1	YES / NO	The Contractor shall be capable of remote diagnostic access via a properly secured internet connection. Contractor shall be able to receive system notifications directly from the customer, through an alarm monitoring system, and through the Network Operations Center. If there is an active alarm that requires immediate attention, the contractor shall notify the County of any problems. The contractor will immediately troubleshoot the issue, initiate call to L3 Harris Technical Assistance Center or Help Desk when necessary, and implement steps to resolve of the issue. Contractor shall be required to monitor and configure the SIRS radio components using following systems:
1.2	YES / NO	<ul style="list-style-type: none"> Monitor real-time call activity from the Vida Regional Network Manager (RNM).
1.3	YES / NO	<ul style="list-style-type: none"> Monitor system alerts, system faults, & alarms from the RNM.
1.4	YES / NO	<ul style="list-style-type: none"> Monitor site & shelter alarms connected to the Network Sentry site alarm management system
1.5	YES / NO	<ul style="list-style-type: none"> Monitor the service enterprise system using the Enterprise Network Manager (ENM).
1.6	YES / NO	<ul style="list-style-type: none"> Configure any necessary changes to the P25 stations and change the control channel parameters in a P25 MASTR V stations using Device Manager.
1.7	YES / NO	<ul style="list-style-type: none"> If any additional communication circuits, equipment, or software is needed specifically for maintaining or monitoring the system, these circuits and components shall be identified by the contractor.
1.8	YES / NO	Please include in your proposal an annual cost to monitor the network, troubleshoot, and remotely repair as necessary.

2.0	SYSTEM UPDATES L3HARRIS' SOFTWARE FX	
2.1	YES / NO	Sublette County has an annual contract for 15-years with L3Harris to provide all software maintenance updates, firmware updates, and system security updates using the Software FX comprehensive software maintenance program. The contractor shall install and update all radio system updates using L3Harris' Software FX maintenance program. Software FX is made of three elements. The first element provides updates to L3Harris developed software programs. The second element, SUMS for L3Harris infrastructure

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		only, provides periodic security related updates to mitigate identified software vulnerabilities. The third element, Tech-Link, provides customer access to various on-line support tools via a secure website. All software updates shall be shipped to the contractor and installed following the guidance set forth by L3Harris.
2.2	YES / NO	Please include in your proposal an annual cost to manage all software maintenance updates, firmware updates, and system security updates using the provided L3Harris Software FX comprehensive software maintenance program.

3.0	SYSTEM MAINTENANCE, SERVICES, & REPAIRS	
3.1	YES / NO	The contractor shall provide system maintenance, additional support, and enhancements relating to all radio system hardware and software, the network system, microwave system, alarm system, and power system. System maintenance is defined as providing all required routine maintenance necessary to keep the radio system, the network system, microwave system, alarm system, and power system operating and optimized. As part of system maintenance, the contractor shall supply and install all updates, enhancements, improvements, or modifications to the radio system (hardware, firmware, and software) at no additional charge to the County.
3.2	YES / NO	The contractor shall provide all labor, local, and remote support professional service time, travel, equipment, and all other incidental charges necessary for repairs and services for the SIRS system within recommended factory performance standards and tolerances, including any and all emergency outages or system failures. Routine repairs and services shall be scheduled as frequently as is recommended by the manufacturers of the equipment's various components, though not less than once per year. Routine repairs and services are expected to generally be performed concurrently with system maintenance. Any services necessary to remedy any programming error, malfunction, or other problems shall be included in routine repairs and services. All costs necessary for routine repairs and service, including but not be limited to: troubleshooting, transportation, packaging, crating, shipping, delivery, installation, de-installation, disposal, component handling, and insurance shall be provided at no additional expense to the County.
3.3	YES / NO	The contractor shall in good faith support and resolve routine problems with connectivity to the equipment in accordance with the provisions of the contract. If contractor determines a problem exists with manufacturers' equipment, then the contractor shall take point and work cooperatively with the County and such other manufacturers to identify and resolve the problem at no additional cost to the County.

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3.4	YES / NO	Any trouble reports that are discovered shall be conveyed to the contractor. When return calls are made (either to gather more data or to prescribe corrective actions), the first such return call shall arrive from a person trained and qualified to diagnose and resolve the general type of difficulty reported within one (1) hour of the report of trouble. The contractor's initial response to remedy errors, malfunctions, or problems, whether identified by the County, or via remote network monitoring, shall not exceed one (1) hour. When attempting to resolve a problem of substantial difficulty or magnitude, the contractor shall use its best efforts to proceed with diligence and good faith to affect a remedy in a timely and efficient manner. Local emergency service organizations including Fire, Law, and EMS are relying on the mission critical communications from the SIRS system. It is imperative to resolve all problems as soon as possible and minimize any impact to public safety.
3.5		Routine system maintenance shall be scheduled as frequently as is recommended by the manufacturers of the equipment's various components, though no less than once per year. System maintenance shall be scheduled in advance with prior approval by the County. In no case will routine system maintenance put any aspect of the system out of operation without the County's prior approval.
3.6		While performing routine maintenance the technician shall test all equipment on the equipment list in Attachment A and bring readings into manufacturers' specifications.
3.7	YES / NO	The following routine maintenance requirements for the L3Harris and Tait infrastructure and equipment will be required at least annually. Please indicate if you can perform these maintenance requirements at each of the sites and facilities.
3.8	YES / NO	Check RF, data and audio cable condition
3.9	YES / NO	Check general alarm status, troubleshoot and investigate any found alarm conditions
3.10	YES / NO	Check condition of punch blocks
3.11	YES / NO	Perform a general talkgroup test
3.12	YES / NO	Perform a multisite test
3.13	YES / NO	Perform an individual call test
3.14	YES / NO	MASTR V BASE STATIONS
3.15	YES / NO	Check simulcast timing, adjust as necessary
3.16	YES / NO	Check transmitter RF power output doesn't exceed station authorization
3.17	YES / NO	Check transmitter frequency stability is within correct ppm of specification
3.18	YES / NO	Check modulation deviation is within correct kHz of specification
3.19	YES / NO	Check receiver BER
3.20	YES / NO	Verify alarm functionality
3.21	YES / NO	Check call processing, each channel

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3.22	YES / NO	Clean physical filters
3.23	YES / NO	Inspect RF lines
3.24	YES / NO	Inspect audio and data cables for snug connection
3.25	YES / NO	Verify control channel operation and rolling
3.26	YES / NO	Perform power supply voltage checks
3.27	YES / NO	TAIT CONVENTIONAL RADIO BASE STATION
3.28	YES / NO	Check transmitter RF power output doesn't exceed station authorization
3.29	YES / NO	Check transmitter frequency stability is within correct ppm of specification
3.30	YES / NO	Check modulation deviation is within correct kHz of specification
3.31	YES / NO	Check receiver BER
3.32	YES / NO	Verify alarm functionality
3.33	YES / NO	Check call processing, each channel
3.34	YES / NO	Clean physical filters
3.35	YES / NO	Inspect RF lines
3.36	YES / NO	Inspect audio and data cables for snug connection
3.37	YES / NO	Verify control channel operation rolling
3.38	YES / NO	Perform power supply voltage checks
3.39	YES / NO	Perform power supply voltage checks
3.40	YES / NO	GPS RECEIVERS VERIFY GPS SYNC
3.41	YES / NO	Verify alarm functionality
3.42	YES / NO	Verify battery functionality
3.43	YES / NO	Check power supply voltage
3.44	YES / NO	NETWORK
3.45	YES / NO	Check and verify RNM alarms
3.46	YES / NO	Inspect Ethernet cables
3.47	YES / NO	Check MPLS router voltage
3.48	YES / NO	Check MPLS router cables
3.49	YES / NO	Check MPLS router alarms
3.50	YES / NO	Check dual CPU Operation
3.51	YES / NO	Check servers for dust
3.52	YES / NO	CONSOLES
3.53	YES / NO	Check console link to VNIC
3.54	YES / NO	Check RF, data and audio cable condition
3.55	YES / NO	Verify operation of touch screen monitor
3.56	YES / NO	Check and clean keyboard
3.57	YES / NO	Verify CD drive functional
3.58	YES / NO	Verify console basic call functionality
3.59	YES / NO	Check select and unselect speaker audio output for clarity
3.60	YES / NO	CONSOLE ACCESSORIES
3.61	YES / NO	Check microphone, headset jacks, foot switches for condition and functionality
3.62	YES / NO	PAGING UNIT
3.63	YES / NO	Check functionality

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3.64	YES / NO	CALL DIRECTOR
3.65	YES / NO	Check functionality
3.66	YES / NO	ISSI
3.67	YES / NO	Check functionality
3.68	YES / NO	NSS
3.69	YES / NO	Verify high availability (HA) functionality
3.70	YES / NO	Check for alarms
3.71	YES / NO	Check servers for dust
3.72	YES / NO	Check servers are operating on most current software revision
3.73	YES / NO	Check BeOn functionality
3.74	YES / NO	FIBER RING
3.75	YES / NO	Verify fiber ring switching functionality
3.76	YES / NO	Check condition of fiber cables
3.77	YES / NO	Check fiber connection unit for alarms
3.78	YES / NO	SYMPHONY CONSOLES
3.79	YES / NO	Check for system connectivity
3.80	YES / NO	Verify cd drive functional
3.81	YES / NO	Verify console basic call functionality
3.82	YES / NO	Check select and unselect speaker audio output for clarity
3.83	YES / NO	Check microphone, headset jacks, foot switches for condition and functionality
3.84	YES / NO	VOTER
3.85	YES / NO	Check audio input and output levels
3.86	YES / NO	Check voting operation
3.87	YES / NO	Check power supply voltage
3.88	YES / NO	TOWER SITES AND SHELTERS
3.89	YES / NO	Inspect tower sites and shelters for any damage or maintenance needs and repair as necessary.
3.90	YES / NO	General cleanliness, remove any trash/debris as necessary
3.91	YES / NO	Weeds and vegetative growth, weed eat when necessary to ensure clear access and general cleanliness near the shelter and towers
3.92	YES / NO	Please include in your proposal an annual cost to provide routine system maintenance, services, and repairs necessary to keep the SIRS radio system operational and functioning within recommended factory performance standards and tolerances.

4.0	SUBSCRIBER EQUIPMENT MAINTENANCE, REPAIRS, PROGRAMMING	
4.1	YES / NO	The contractor shall perform necessary field maintenance at least annually for all mobile, portable, and base station radios identified in Attachment A.
4.2	YES / NO	The contractor shall program, operate, test, tune, and maintain the radios in accordance with their respective maintenance manuals.
4.3	YES / NO	The contractor shall install a maintenance personality/codeplug into the radio when appropriate for use during standardized transmitter and receiver performance testing.

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4.4	YES / NO	The contractor shall setup and perform standard transmitter and receiver tests on the radio using a P25-capable service monitor.
4.5	YES / NO	The contractor shall perform automatic test and alignment on the radio using the service monitor and auto-test software.
4.6	YES / NO	The contractor shall be capable of performing select alignments independent of the auto-test software when necessary.
4.7	YES / NO	The contractor shall program all subscriber equipment and update radio personality changes as often as required by the County. Programming changes may need to be updated manually via direct connection or programmed using Over-The-Air-Programming (OTAP) based on the capability of the subscriber units.
4.8	YES / NO	Contractor shall manage all necessary programming dongles for the various manufacturers to/from the SIRS radios system for programming purposes.
4.9	YES / NO	Please include in your proposal the cost per radio to annually perform these maintenance, repairs, and reprogramming requirements.

5.0	TESTING	
5.1	YES / NO	Contractor shall be required to be equipped with the tools, test equipment, network equipment, and computer equipment needed to troubleshoot, repair, and maintain all radio equipment necessary to fulfill the terms of this contract. Contractor shall be responsible to annually calibrate all test equipment as required. Test equipment requiring annual calibration will have calibration stickers affixed showing the expiration date of the calibration or the date next calibration is due.

6.0	REPAIRS	
6.1	YES / NO	Successful bidder shall either repair or replace all failed equipment per County determination. If equipment is repairable, contractor shall perform repairs and bench test afterwards to verify proper operation. If equipment is replaceable, contractor shall replace with County purchased spare parts and perform testing to verify proper operation.

7.0	DEPOT SERVICE	
7.1	YES / NO	If it is necessary to repair failed equipment, contractor shall be responsible to ship failed equipment to the appropriate Depot Repair and Return for repairs. Contractor must obtain a Return Material Authorization from the applicable repair center. Contractor shall receive and bench diagnose repaired equipment to meet original specifications and proper operation. Repaired equipment shall be either installed or replace inventory from spare parts supply as appropriate.

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8.0	PARTS	
8.1	YES / NO	Parts replaced in damaged equipment must be identical (same manufacturer and part number) as the part being replaced. The contractor shall be held liable for a no charge on-site replacement repair should the replaced part be considered substandard or if work was not properly approved by the County representative.

9.0	SUPPLIES AND ACCESSORIES	
9.1	YES / NO	Successful bidder shall maintain an accountability inventory list of frequently used spare parts, supplies, and accessories necessary for regular maintenance of the SIRS system. As spare parts are used, successful bidder shall replace spare parts to ensure adequate spare parts are available for future use. County will purchase new spare parts as existing inventory is used.

10.0	MATERIALS CHARGES	
10.1	YES / NO	For material and equipment costs, the contractor shall use Sublette County's pre-negotiated L3Harris pricing as the primary source to purchase new equipment, or be able to obtain necessary materials and equipment for a lesser price. For any equipment not included on L3Harris' pre-negotiated pricing, please describe any costs above the contractor's costs that will be charged to the County. All purchases of materials or equipment will require a confirmation of the problem and approval by the County representative prior to making any purchases.

11.0	REPORTS	
11.1	YES / NO	Contractor shall provide an annual and monthly report of failures containing information on the number of repair calls completed, number of hours per month spent on such calls and cost of parts. The repair reports will include information as to where and when a call was made and what actions were taken. All service tickets shall contain: <ul style="list-style-type: none"> • Time of alarm or event • Time the technician was contacted • Time arrived on site • Time the event was closed • Any repairs performed
11.2	YES / NO	A written report of all annual and monthly maintenance performed shall be submitted to the County and shall include any recommended configuration changes to the system for the county's consideration. All required maintenance listed in Section 3 and Section 4 of this RFP shall be documented to verify completion and proof of routine maintenance.

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12.0	REMOVAL & ADDITION OF EQUIPMENT UNDER THIS CONTRACT	
12.1	YES / NO	Any item of equipment removed from use may be withdrawn from the contract by the County, at any time, upon giving thirty (30) days' prior written notice. Additional equipment can be added to the Contract by mutual written agreement between the parties to the Contract, provided that costs for such service will be subject to the rates set forth in the Contract.

13.0	CONTRACTOR WARRANTY	
13.1	YES / NO	Contractor shall expressly warrant that all goods or services furnished under this Contract shall conform to all specifications and appropriate industry standards, all materials will be new unless authorized in advance by the County, and will be free from defects in material or workmanship.

14.0	MAINTENANCE OF FCC FREQUENCY LICENSING	
14.1	YES / NO	Contractor shall monitor and maintain all frequency licensing applications for Sublette County Government with the Federal Communications Commission (FCC).

15.0	TERM OF CONTRACT	
15.1	YES / NO	Under an existing agreement, L3Harris will perform one Preventive Maintenance cycle during their warranty plan, which is for two (2) years after system acceptance. The successful bidder shall be required to perform all radio system maintenance and repairs after the L3Harris warranty period ends. The contract for radio system maintenance and repairs should begin upon the start of the third year of ownership of the SIRS radio system.
15.2	YES / NO	The contract for the system monitoring should begin immediately upon contract execution.

16.0	INVOICES	
16.1	YES / NO	Contractor shall invoice monthly for all necessary work to perform the requirements of the contract.

ATTACHMENT A

The following is a listing of the equipment currently in use by the County which will be covered under awarded contract. Note: this is a general description of type/amount of the Radio System Core, Network System Control, RF Site Equipment, Microwave Backhaul Equipment, Interoperability Equipment, Dispatch Equipment, Logging Equipment, and Subscriber Equipment. It is the contractor's responsibility to confirm actual equipment and compare to as-built plans prior to final contract execution.

Quantity	Description
2	Geo-redundant VIDA Unite Cores (<i>Pinedale & Marbleton Sites</i>)
2	Network management system
Various	Network servers, managers, firewalls, routers, switches
2	Interoperability gateways and radios
2	ISSI gateways
4	Symphony consoles installed at each dispatcher location
4	Console back-up control station radios at each dispatcher location
2	P25 logging recorder
6	Radio tower sites (<i>White Pine, Kismet, Luman, Hogsback, Marbleton, Pinedale – See Attachment B for map</i>)
5	VHF MASTR V base stations – <i>Each tower except Pinedale</i>
5	UHF MASTR V base stations – <i>Each tower except White Pine</i>
5	Tait VHF conventional paging radio overlay system – <i>Each tower except Pinedale</i>
6	Radio site access routers & MPLS routers
6	Antenna systems (transmit & receive, combiners, multicouplers, filters, cables, connectors, jumpers, etc.)
6	Microwave radios
6	Microwave antennas, interconnect equipment
1	Portable suitcase VHF repeater
4	Radio shelters (<i>White Pine, Kismet, Luman, Hogsback</i>)
4	Radio shelter 1.5 Ton wall mount HVAC systems
5	Radio shelter standby 6-Hour battery systems

SUBSCRIBER EQUIPMENT RADIOS

Quantity	Make	Model	Type
47	L3Harris	XL-200M	Mobile Radio
223	L3Harris	XL-200P	Portable Radio
3	L3Harris	XL-200	Desktop Stations
48	BK Technologies	KNG-150M	Mobile Radio
28	BK Technologies	KNG-150P	Portable Radio
6	BK Technologies	KNG-150B	Base Stations
70	Motorola	XTS-5000	Portable Radio
30	Motorola	APX6000LI	Portable Rado
100	Motorola	Monitor VI	Pagers

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ATTACHMENT B

RADIO TOWER LOCATIONS

