

**Missaukee County Sheriff's Office
Lake City, Michigan 49651**



**Public Safety Radio
Enhancement Project**

**RFP Document and
Technical Specifications**

Deadline: 10:00 am October 29, 2018

TABLE OF CONTENTS

SECTION 1. GENERAL INFORMATION & INSTRUCTIONS

1.1	RFP Purpose	4
1.2	Public Safety Radio Enhancement Project Committee.....	4
1.3	Proposal Instructions	4
1.4	Alternative Proposals	5
1.5	Project Schedule	5
1.6	Questions	6
1.7	Mandatory Pre-Proposal Conference	6
1.8	Bond and Bond Amount Required	6
1.9	Performance Bond	6
1.10	State Taxes	6
1.11	Subcontractors	7
1.12	Payment Schedule	7
1.13	Project Completion	7
1.14	Proposal Opening	7
1.15	Contract Negotiation Process	7
1.16	Insurance & Workman’s Compensation:	7
1.17	Valuable Papers Insurance	8
1.18	Licenses, Permits, and Regulations	8
1.19	Change Orders	8
1.20	Change Directives	8
1.21	Non-Discrimination	9
1.22	Statement of Indemnification	9
1.23	Non-Collusion.	9
1.24	Endorsement Prohibition	9
1.25	Severability	9
1.26	Substitute and “Or Equal” Items	9
1.27	Modification and Withdrawal of Bid	9
1.28	Conflict of Interest	10
1.29	Non-Iran Business Certification	10
1.30	Contracts Under Federal Awards	10
1.31	Selection Criteria	12
1.32.	Evaluation Weighting Summary	12

SECTION 2.0 PROPOSAL FORMAT AND CONTENT

2.1	Cover Letter	13
2.2	Company Overview	13
2.3	Project Work Plan	13
2.4	Project Team	13
2.5	Include a project team organizational chart	14
2.6	Related Experience	14
2.7	Cost Proposal	14
2.8	Project Schedule	14
2.9	Standards and Guidelines	14
2.10	Training Requirements	15
2.11	Subscriber Equipment and Dispatch Console Training	16
2.12	Warranty, Maintenance, and Support Requirements	16
2.12.1	Warranty Requirements	16
2.13	Post-Warranty Maintenance Requirements	17

SECTION 3	PROJECT COMLETION & LIQUID DAMAGES	18
SECTION 4	CONTRACT AWARD	18
SECTION 5	PROJECT SCOPE OF WORK	19
5.2	Turn-Key Approach	20
5.2	Existing System	20
5.3	Site Visits & Locations	20
5.4	VHF Radio Repeater Site Equipment	21
5.5	Sheriff's Office Road Patrol Radio(s)	21
5.6.	Sheriff's Department Corrections/Jail Radio(s)	21
5.7	Sheriff's Department Dispatch Radio(s)	21
5.8	Dispatch Department Dispatch Wireless/Remote Headset System	21
5.9	Dispatch Department Dispatch Sit-Stand Desk System	22
5.10	Missaukee County EMS Mobile and Portable Radio(s)	22
SECTION 6	PROJECT GENERAL RADIO EQUIPMENT SPECIFICATION REQUIREMENTS	22
6.1	Protocols and Systems Supported	22
6.2	Information Assurance	22
6.3	Audio Features	23
6.4	Programming Features	23
6.5	User Interface	24
6.6	Integrated Voice & Data Applications	25
6.7	Channel Capacity	26
6.8	Portable Radio Specifications	26
6.9	Ergonomics	27
6.10	Environmental Specifications	27
6.11	Battery	28
6.12	Maximum RF Power	28
6.13	Mobile Radio Specific Specifications (Previous data features and others still apply)	28
6.14	Maximum RF Power	28
SECTION 7	MULTIBAND CONSOLETTTE SPECIFICATIONS	28
BID FORMS AND AFFIDAVITS TO BE RETURNED AS PART OF PROPOSAL		30
	PROPOSAL SUBMISSION CHECKLIST	31
	BID FORM	32
	BID FORM – ALTERNATIVE	33
	NON-DISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITYAFFIDAVIT	34
	NON-IRAN BUSINESS CERTIFICATION AFFIDAVIT	35
	STATEMENT OF INDEMNIFICATION AFFIDAVIT	36
	STATEMENT OF NON-COLLUSION AFFIDAVIT	37
	PROPOSAL PRICING COST FORMS	38
	DECLINE TO BID FORM	44

REQUEST FOR PROPOSAL (RFP)
Public Safety Radio Communications Enhancement Project

SECTION 1. GENERAL INFORMATION & INSTRUCTIONS

1.1 RFP Purpose

The purpose of this request for proposals (RFP) is to receive competitive proposals for qualifications-based selection of a contractor to provide Public Safety Radio systems enhancement, including the purchase, programming and installation of public safety radio equipment for the Missaukee County Sheriff's Office & Missaukee County EMS.

This RFP does not constitute a contract for services performed or to be performed. After selection of the successful firm (referred to as the contractor), the Missaukee County Board of Commissioners with the County Sheriff, County Administrator, and 911-Coordinator will negotiate a contract and final scope of services.

All proposals submitted become the property of the Missaukee County Sheriff's Office and will not be returned. Missaukee County Sheriff's Office is not responsible for any costs incurred by the respondent in proposal preparation, presentations, site visits or benchmarks performed.

The County seeks to obtain proposals for a 700/800 MHz, Project 25 Phase 2 trunked radio system equipment, including;

- 1) Sheriff patrol mobile radios and portables radios
- 2) Sheriff correction/jail portable radios,
- 3) Sheriff 911-dispatch radios, with radio console interface
- 4) Emergency Medical Services (EMS) mobiles and portables

1.2 Public Safety Radio Enhancement Project Committee

The proposals will be reviewed by the Public Safety Radio Enhancement Committee. This Committee will be reviewing the proposals and making the final recommendation of which proposal/vendor to contract for services to the Missaukee County Sheriff's Office, and Board of Commissioners. The Missaukee County Board of Commissioners will make the final decision regarding any proposal that will provide Missaukee County the best possible product, with the shortest delivery schedule at the best price and any combination thereof.

1.3 Proposal Instructions

Formal proposals must be received no later than 10:00 am October 29, 2018. Proposals received after the scheduled receipt time or faxed copies will not be considered. All respondents must submit one (1) original (clearly marked Original) and two (2) copies of the proposal in a sealed package.

Proposals should be submitted to:

RFP Public Safety Radio Enhancement Project
Attn: James D. Bosscher
PO. Box. 800
110 South Lake Street
Lake City, Michigan 49651
Phone: (231)-839-4338

A person authorized to sign such documents must sign the original proposal document in ink. All copies of the proposal shall show copies of the original signature.

1.4 Alternative Proposals

- A. In the event that Respondents have a technological solution that does not meet the exact requirements set forth in this RFP, but fully-addresses all the functional requirements, Respondents may offer alternative proposals in addition to their base proposal as long as each proposal fully addresses the intent of the requirements set forth in this RFP.
- B. Alternate proposals shall be submitted separately under a different cover from the base proposal and clearly marked “ALTERNATIVE PROPOSAL.” Respondents must submit a fully-compliant proposal in order to submit an alternate proposal.
- C. The Respondent’s Alternate Proposal shall comply with the same submittal instructions in Section 2.4, Proposal Format.
- D. Respondents All respondents must submit one (1) original (clearly marked Original) and two (2) copies of the proposal in a sealed package of their proposals to the County. Each package shall also include a copy of the proposal in electronic format on USB flash drive. The front of the package shall be marked “**Sealed Proposal Public Safety Radio Enhancement Project Proposal**”.
- E. Proposals shall be submitted to:
RFP Public Safety Radio Enhancement Project
Attn: James D. Bosscher, Sheriff
PO. Box. 800
110 South Lake Street
Lake City, Michigan 49651
Phone: (231)-839-4338
- F. Proposals shall clearly indicate the legal name, address and telephone number of the Respondent (company, firm, partnership, or individual). Proposals shall be signed above the typed or printed name and title of the individual signing on behalf of the Respondent. All expenses for making proposals shall be borne by the Respondent.
- H. If the Owner closes its offices due to inclement weather, or some other unforeseen circumstance outside of the Owner’s control, scheduled bid openings or receipt of proposals will be extended to the next business day, same time.

1.5 Project Schedule

Request for Proposals Issued	October 5, 2018
Preliminary Contractor Questions	1:00 pm October 12, 2018
Pre-Proposal Conference	9:00 am October 17, 2018
Deadline for Final Questions to be submitted	1:00 pm October 23, 2018
Due Date for Proposals	10: 00 am October 29, 2018
Proposal Openings	10:00 am October 29, 2018
Project Completion Deadline	4:00 pm May 8, 2019

1.6) Questions

- a) Preliminary Questions are due by 1:00 pm (EST) October 12, 2018 via E-mail to e.nettle@missaukeesherriff.net
- b) Final Questions are due by 1:00 pm (EST) October 23, 2018 via E-mail to: e.nettle@missaukeesherriff.net

The requestor is responsible for notifying the Sheriff, James D. Bosscher of any problem in receiving written replies, at (231)-839-4338 or j.bosscher@missaukeesherriff.net

1.7 Pre-Proposal Conference

- A. A Pre-Proposal Conference will be held on **October 17, 2018, at 10:00 a.m.** The conference will be held at the Missaukee County Sheriff's Office. The Office is located at 110 S. Pine Street, Lake City, MI. 49651
- B. Respondents may submit questions to the County at least five (5) business days prior to the pre-proposal conference in either written or electronic format (email) on the enclosed Bidder Question Forms.
- C. During the conference, the County may provide answers to any questions received and hold an open discussion regarding the project. Oral responses provided during the conference shall not be binding on the County.
- D. The County will respond to all questions and provide answers via an addendum. Addenda shall be posted on the County's website. Questions are due no later than seven (7) days prior to the due date. All questions must be submitted in writing.

1.8 Bond and Bond Amount Required

The RFP shall be accompanied by a bond, certified check, cashier's check, or money order. Missaukee County requires that the bond amount be equal to **\$5,000.00**. The bond must be valid for a minimum period of sixty (60) days after the date of opening. Once a contract has been executed, the bonds of contractors not chosen will be returned.

1.9 Performance Bond

As Performance Bonds for work of this nature are not feasible, in lieu of a performance bond, the County will consider a payment method based on payment of work accepted and work performed with an additional 10% retainage until the project is completed and accepted. Strict adherence to the delivery schedule will be necessary.

1.10 State Taxes

Missaukee County is exempt from sales, excise, and transportation taxes. Proposals shall be exclusive of all such taxes.

1.11 Subcontractors

Although use of subcontractors is discouraged, if they are requested and approved, the contractor shall retain full responsibility to the County for all work by the subcontractor. All subcontractors must be approved by Missaukee County and must comply with the following provisions:

- a) The company submitting the proposal will be considered the prime contractor.
- b) All tasks to be performed by the subcontractors must be clearly identified within the RFP.
- c) Subcontractors must meet all criteria defined for the prime contractor.

1.12 Payment Schedule

The County and the selected contractor will determine a payment schedule at the time of contract negotiations.

1.13 Project Completion

The County requires that the project be completed and delivered to the County by no later than **4:00 pm on May 8, 2019**. A contractor's ability to specify an earlier completion date (month/day/year) will be considered as a factor favoring award of the contract. **A failure to complete the project by the contract completion date will result in a liquidated damage award to the County from the contractor of \$2,500.00 per day and increased to \$5,000.00 per day until completion after June 12, 2019.**

1.14 Proposal Opening

All proposals received will remain sealed until the proposal opening at **10:00 am October 29, 2018** in the Missaukee County Sheriff's Office Conference Room, Lake City Michigan. Respondents need not be present at the proposal opening.

1.15 Contract Negotiation Process

The Missaukee County Sheriff & County Administrator will review and recommend to the Missaukee County Board of Commissioners the proposal for consideration. The Board of Commissioners will select a firm to enter into contract negotiations with. In the event that acceptable terms cannot be reached, one of the remaining firms may be chosen for contract negotiations. The selected firm will submit to Missaukee County a contract for services within one (1) week of their notification of selection. The contract will contain the proposal specifications and will be binding. Required contract clauses include: general provisions, starting and completion dates, prosecution of work, fees, method of payment, damage clauses, termination of contract, approval of subcontractors, assignment of subcontractor, EEOC clause, ownership of materials, contract amendments and late delivery penalty. The contract will be reviewed, approved, and may be modified by the Missaukee County Attorney.

1.16 Insurance & Workman's Compensation:

The contractor is required to provide proof of liability and workman's compensation insurance throughout the term of the contract. The company shall hold harmless the County and its officers or agents from all claims, demands, payments, suits, actions, recoveries, and judgments of every kind brought against it by reason of act or omission of the company. The bidder shall submit a certificate of insurance with limits not less than the following:

- \$1,000,000 per person for bodily injury; and,
- \$1,000,000 per occurrence for property damage; or,
- \$1,000,000 CSL (bodily injury & property damage combined).

1.17 Valuable Papers Insurance

The selected contractor shall carry valuable papers insurance throughout the term of the contract in an amount to cover all claims on any data and information that belongs to Missaukee County and is in the contractor's possession, as well as all work products and deliverable items covered in the contract.

1.18 Licenses, Permits, and Regulations.

Permits and licenses necessary for the completion of the work shall be secured and paid for by the contractor.

1.19 Change Orders

County reserves the right to increase or decrease the scope of work.

A decrease in the quantity of Equipment and/or Services in any amount does not constitute a claim for damage or for loss of profits on the Equipment and/or Services to be dispensed with. Such alterations shall not in any way release or impair the bond or the sureties nor will any payments be made for items of Equipment and/or Services not actually constructed or demolished, regardless of the quantities shown in the Contract Documents.

Either party may request changes within the general scope of this Agreement. Such requests, if mutually agreeable, shall be processed as Change Orders. For purposes of this Agreement, a "**Change Order**" shall mean a written order signed by County and Contractor and issued to Contractor after execution of this Agreement authorizing one or more of the following:

- (i) changes in the System;
- (ii) adjustment in the basis of payment for additional equipment provided and/or additional services performed on the System that are affected by the change; or
- (iii) adjustment in the schedule for completion of the System.

1.20 Change Directives

In case any additional equipment and/or additional service shall be required to be furnished that is not specified herein or indicated on the Contract Documents, which in the opinion of County is required to complete the System, Contractor shall, if ordered by County, provide such additional equipment and/or perform such additional services as may be required. If possible, an agreement to the cost and payment for said additional equipment and/or additional services shall be reached and agreed upon by County and Contractor. In the event of failure to reach such satisfactory agreement, Contractor may be ordered by County to proceed with such additional services and furnish such additional equipment on a cost plus basis, on which basis Contractor shall receive the cost of any additional equipment that Contractor may be required to purchase plus ten percent (10%) and the cost of any additional labor that may be required to supply plus ten percent (10%). The ten percent (10%) of such net costs is for profit, the use of the plant, tools, superintendence, overhead costs, and all other expenses incidental to the performance of such excess of the above; but this method of payment shall not apply to the performance of any Services or the furnishing of any Equipment which, in part or in whole, is in the opinion of County an obligation of the Contractor under the Contract Documents or is necessary to provide County with a turnkey System.

1.21 Non-Discrimination

The contractor must agree that it will not discriminate in any manner based on race, creed, sex, handicap, color, age, religion, familial status, or national origin. *Note: Bidder shall submit a Non-Discrimination and Equal Employment Opportunity Affidavit as part of the proposal. The form is attached and located in Section - BID FORMS.*

1.22 Statement of Indemnification

A Statement of Indemnification for MISSAUKEE COUNTY shall be included as part any awarded contract. *Note: Bidder shall submit a Statement of Indemnification as part of the proposal. The form is attached and located in Section - BID FORMS.*

1.23 Non-Collusion

A non-collusion affidavit shall be included as a part of any awarded contract. *Note: Bidder shall submit a Non-Collusion Affidavit as part of the proposal. The form is attached and located in Section - BID FORMS.*

1.24 Endorsement Prohibition

Contractor shall not use in any form or medium the name of County, or supportive documentation or photographs of County projects, facilities, equipment or employees, for public advertising or promotional purposes unless authorized in writing by County.

1.25 Severability

If any provision of this Agreement is held to be invalid or unenforceable, it shall be considered to be deleted, and the remainder of the Agreement shall remain in full force and effect. Where the deletion of the invalid provision would result in the illegality and/or unenforceability of this Agreement, this Agreement shall be considered to have terminated as of the date on which the provision was declared invalid.

1.26 Substitute and “Or Equal” Items

The contract, if awarded, will be based on materials and equipment specified and described in the Proposal Documents. No substitutions or “equal” pieces of Equipment will be accepted unless approved by Missaukee County in writing, as Addenda. In areas of the proposal, in which a specific brand, model or make is mentioned, it is assumed that equipment of equivalent quality and capability can be substituted. However, the bidder should reflect the degree of equivalency within the proposal of substituted items.

1.27 Modification and Withdrawal of Bid

If within 24 hours after proposals are opened, and Bidder files a duly signed written notice with Missaukee County and promptly thereafter demonstrates to the satisfaction of Missaukee County there was a material and substantial mistake in the preparation of its RFP, that Respondent may withdraw its proposal. Thereafter, the withdrawn proposal will not be considered for award, and if the Work is rebid, that Bidder may be disqualified from further consideration.

1.28 Conflict of Interest

The contractor, by responding to this request, certifies that to the best of his/her knowledge or belief, no elected/appointed official or employee of Missaukee County is financially interested, directly or indirectly, in the offer of services specified in this project.

1.29 Non-Iran Business Certification

Pursuant to Michigan law (Iran Economic Sanctions Act, Michigan PA 517 of 2012), before accepting any bid or proposal or entering into any contract for goods and services with any prospective vendor, Missaukee County must obtain certification from the vendor that it is not an “Iran-Linked Business.”

Note: Bidder shall submit an affidavit as part of the proposal. The form is attached and located in Section - BID FORMS.

1.30 Contracts Under Federal Awards

- A. In addition to other provisions required by Federal agency or non-Federal entity, all contracts made by Missaukee County under the Federal award must contain provisions covering the following, as applicable.
- B. Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.
- C. All contracts in excess of \$10,000 must address termination for cause and for convenience by Missaukee County including the manner by which it will be effected and the basis for settlement.
- D. Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”
- E. Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by Missaukee County must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. Missaukee County shall report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29

CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or sub-recipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

- F. Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

- G. Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and sub-grants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

- H. Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in

connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

1.31 Selection Criteria

1.31.1 Missaukee County reserves the right to accept any proposal, reject any or all proposals or phases thereof, waive irregularities or informalities in any proposal, and make the award in any manner deemed in the best interest of the Missaukee County. Missaukee County intends to select and contract with the contractor that demonstrates, in their opinion, the highest degree of technical merit. With that contractor, Missaukee County will negotiate the technical aspects of the scope of work, deliverables, schedule and fee. However, if a negotiated agreement can't be reached, Missaukee County may open negotiations with the contractor that demonstrates the next highest degree of technical merit.

1.13.2 The following criteria will be used to evaluate proposals. This is not intended to be a comprehensive list, nor is the arrangement of the criteria meant to imply order of importance in the selection process.

1. Compliance with RFP Instructions.
2. Cost.
3. Precision / Accuracy.
4. Equipment Proposed.
5. Firm Background.
6. Financial Stability.
7. Methodologies.
8. Professional Registration.
9. Proximity to the Project Area.
10. Quality Control.
11. References.
12. Schedule and Availability.
13. Similar Project Experience.
14. Staff Qualifications.
15. Subcontracting.
16. Technical Expertise.
17. Completion date.

1.32. Evaluation Weighting Summary

1.32.1 The above specified criteria, but not limited to, will be rated on a scale by each member of the Missaukee County Committee. The evaluations will be tallied, weighted to establish a "technical proposal score" as outlined below.

- | | | |
|----|------------------------|-----|
| 1) | Technical Score (65%) | |
| | Responses | 40% |
| | Technical Approach | 25% |
| | Management/Staffing | 25% |
| | References | 10% |
| 2) | Financial Weight (35%) | |

- 3) Evaluation Formula
Total Score = 65% (score/score_max) + (35% (price_min/price))
- 4) The selected proposal that offers both the best cost and technical approach to the project as determined, by the Missaukee County Board of Commissioners.

SECTION 2.0 PROPOSAL FORMAT AND CONTENT

2.1 Cover Letter

- 2.1.2 Provide a one or two page cover letter. Include the original signed cover letter with the original proposal and a copy of the cover letter with each copy of the proposal.
- 2.1.3 The cover letter should provide the following:
 - a) A brief statement of the respondent's understanding of the project.
 - b) The name, title, phone number, fax number, e-mail address and street address of the person in the proposer's organization who will respond to questions about the proposal.
 - c) Highlights of the respondent's qualifications and ability to perform the project services.

2.2.0 Company Overview

- 2.2.1 Provide the following information about your firm:
 - a) The firm's name, e-mail address, business address, phone number and fax number.
 - b) The year the firm was established.
 - c) Former names of the firm, if applicable.
 - d) The type of ownership and parent company, if applicable.
 - e) Status as a minority or woman-owned or disadvantaged business enterprise.
 - f) The location of the office or offices that would provide the project services.
 - g) A brief statement of the firm's background, demonstrating longevity and financial stability.
 - h) The areas of focus and expertise.
 - i) The specific highlights that may differentiate your firm from others.

2.3 Project Work Plan

- 2.3.1 The section should set forth a complete description of the methodologies, techniques, procedures, equipment, hardware and software proposed to complete each phase and sections of the project as proposed by the County.

2.4 Project Team

- 2.4.1 Identify the proposed project team including the Project Manager and all key personnel to be assigned to the project. Include a one or two page resume that includes a summary of relevant professional qualifications, relevant project experience, education and professional credentials. Substitutions of other less qualified personnel may not be made at a later date without prior written approval of the Missaukee County Sheriff.

2.5 Include a project team organizational chart

2.6 Related Experience

2.6.1 For up to 10 relevant projects, include references that demonstrate capabilities in the project services, experience with similar clients, and or local project experience. Emphasis should be placed on projects that were completed within the previous three (3) years. Reference information should contain at least the following:

1. Agency/Organization Name
2. Agency/Organization Address
3. Contact Person/Phone Number
4. Project Title/Project Location
5. Brief Description of work performed to include area covered, acquisition techniques, standards used, and final deliverable products, equipment and software.

2.7 Cost Proposal

2.7.1 Complete or reproduce the Cost Proposal Form included this section. If alternative approaches are proposed, an alternative Cost Proposal Form should be completed, labeled as such and submitted in addition to the Cost Proposal Forms for the services as specified. Cost Proposal forms are available in excel format at vendor's request.

2.8 Project Schedule

2.8.1 Include a comprehensive schedule for the completion of the project services and deliverables identified within this RFP. Include the proposed start and end dates and intermediate delivery dates for all of the tasks identified within your work plan.

2.9 Standards and Guidelines

2.9.1 The Respondent / Selected Vendor shall comply with the applicable standards, rules, regulations, and industry guidelines published by the following organizations, provided here in no particular order without implication of priority, as they apply to the Respondent's proposed solution:

1. American National Standards Institute (ANSI)
2. National Electrical Manufacturer's Association (NEMA®)
3. Electronics Industry Association (EIA)
4. Telecommunications Industry Association (TIA®)
5. Telecommunications Distribution Methods Manual (TDMM)
6. National Electrical Code (NEC®) Orange County,
7. Institute of Electrical and Electronics Engineers (IEEE)
8. Federal Communications Commission (FCC)
9. Underwriters Laboratories, Inc. (UL)
10. American Society of Testing Materials (ASTM)
11. Occupational Safety and Health Administration (OSHA®)
12. National Fire Protection Association (NFPA®) 1221 13. Telcordia® GR-63-CORE (Network Equipment-Building System) NEBSTM Requirements: Physical Protection

- 2.9.2 Respondents shall comply with industry best practices for system installation, grounding, bonding, and transient voltage surge suppression (TVSS), as outlined in the following guidelines, provided here in no particular order with no implication of priority:
1. Harris® Site Grounding and Lightning Protection Guidelines (AE/LZT – 123 4618/1 – latest)
 2. Other contractor / industry standards that Respondents shall provide to the County for review and approval prior to contract award.
- 2.9.3 The SELECTED VENDOR shall comply with all federal, state, county, and local laws, regulations, codes, and ordinances applicable to implementing a radio communications system within the County.
- 2.9.4 Governing codes and conflicts: If the requirements of this RFP conflict with those of the governing codes and regulations, then the more stringent of the two shall become applicable.
- 2.9.5 If Respondents cannot meet any of the standards or guidelines listed above, they shall list all deviations in their proposals.

2.10 Training Requirements

- 2.10.1 The SELECTED VENDOR shall develop and conduct training programs to allow County personnel to become knowledgeable with the system, subsystems, and individual equipment.
- 2.10.2 Respondents shall fully describe all proposed training programs detailing how they intend to provide training. The training description shall include the following:
1. A list of all subjects with a description of each
 2. Class material to be provided by the SELECTED VENDOR
 3. Number of classes
 4. Class duration
 5. Class size
 6. Training costs shall be included for implementation phase.
- 2.10.3 Respondents shall propose a minimum of two classes for each type of training.
- 2.10.4 All training shall be conducted at various locations to be determined. The SELECTED VENDOR shall coordinate with the County regarding the attendees and schedule.
- 2.10.5 Classes shall be scheduled as near to system cutover as possible, or at other times mutually agreed upon by the County and SELECTED VENDOR.
- 2.10.6 The SELECTED VENDOR shall train the County employees or designated individuals. In some cases, a train-the-trainer approach will be used so that attendees can train other users.
- 2.10.7 The SELECTED VENDOR shall provide all instructional material, including printed manuals, audio, video, interactive self-paced personal computer programs, and complete operating instructions for all technical and operational training classes. Actual and or exact model and series of equipment being delivered shall be made available for hands-on use and operation during training. All instructional material shall be subject to the approval of the County and shall become property of the County.

2.11 Subscriber Equipment and Dispatch Console Training

- 2.11.1 The SELECTED VENDOR shall provide complete and comprehensive operational training covering features, operation, and special care associated with the subscriber radio and dispatch console equipment supplied. Operator training shall include the following categories:
1. Portable unit operation (structured as Train-the-Trainer) (20 seats)
 2. Mobile unit operation (structured as Train-the-Trainer) (20 seats)
 3. Dispatch console operation (6 seats)
 4. Dispatch console supervisor (2 seats)
- 2.11.2 Training classes provided by the SELECTED VENDOR shall be tailored to include actual system talkgroups and subscriber/console features that will be used.
- 2.11.3 Standard training that covers general usage not applicable to the provided system shall be removed from the training syllabus.

2.12 Warranty, Maintenance, and Support Requirements

2.12.1 Warranty Requirements

- 2.12.2 The proposed communications system shall have a warranty period of three (3) years. The warranty period shall commence upon final system Acceptance. The warranty shall cover all equipment and software provided in the final equipment list and installed by the SELECTED VENDOR.
- 2.12.3 The SELECTED VENDOR shall provide a single toll-free telephone number that answers twenty-four (24) hours a day, seven (7) days a week, 365 days a year, for service requests and warranty claims.
- 2.12.4 Respondents shall state in their proposals the name, address, and capabilities of the service station(s) providing warranty service.
- 2.12.5 The following procedures shall be followed during the warranty period:
- 1) Warranty maintenance shall be performed twenty-four (24) hours a day with no additional charges.
 - 2) The service facility shall provide prompt repair service, with service personnel arriving onsite within two (2) hours after a service request by the County and returning the system to service within four hours after a service request by the County.
 - 3) The County shall be provided written documentation indicating the cause of the service outage, the resolution, and all post repair testing procedures to ensure proper operation. In the event County owned spares are used to complete a repair, the model and serial number of both the defective unit and the spare shall be noted in the documentation.
 - 4) For all equipment needing factory or depot repairs, a comprehensive tracking system shall be put in place by the SELECTED VENDOR to track units to and from the factory/depot.

2.12.6 The following services will be provided during the warranty period:

- 1) Onsite repair: the SELECTED VENDOR shall supply the appropriate personnel to provide on-site repair of any failed system components or ancillary equipment. All components provided through this procurement shall be repaired by the SELECTED VENDOR or their subcontractors. System components shall be returned to a fully functional state via direct onsite repair, replacement of faulty module, or replacement of entire component.
- 2) Depot repair: the SELECTED VENDOR shall provide for depot repair of any components found to be defective, or not within factory specifications. Depot repair shall also include an overnight delivery of replacement parts for use in place of a defective item while it is being repaired. The County shall have the option of keeping the replacement part, or returning the repaired component to service.
- 3) Software services: the SELECTED VENDOR shall provide and install any software patches, anti-virus definitions, or other software as released to any provided networking and/or system devices.
- 4) Software refresh: the SELECTED VENDOR shall install all software updates as they are released and are applicable to the provided system and its components. The SELECTED VENDOR shall provide all labor and software. Prior to expiration of the warranty period, all system software shall be updated to the latest software revision shipping on the end-of-warranty date.
- 5) System manager: the SELECTED VENDOR shall provide system management functions by an individual that has been factory trained and is competent to monitor and change network settings as required by the County. These services shall be available during the system warranty period on an as needed basis and will not be limited to alias database changes, usage and alarm reports. If any changes to the system cannot be performed by the provided system manager, the SELECTED VENDOR shall provide the appropriate personnel to meet the request of the County.
- 6) Spare parts: the SELECTED VENDOR shall maintain a sufficient quantity of spare parts to maintain 24/7 operation of the provided system and subsystems. A spare shall be available for any system component not configured for redundant operation. Spare antennas shall be on hand for each make and model used in the system design.

2.13 Post-Warranty Maintenance Requirements

- 2.13.1 As an OPTION, Respondents shall propose maintenance services for subsequent years, renewable on an annual basis. A minimum of pricing for years four (4) through ten (10) shall be provided with pricing detailed for each annual period. Maintenance services shall be provided for all pieces of equipment proposed and installed.
- 2.13.2 Respondents shall fully describe the terms and conditions of the maintenance services.
- 2.13.3 Respondents shall indicate who the local authorized repair facility will be for post warranty repairs upon completion of the detailed design review process.
- 2.13.4 Respondents shall provide detailed pricing for post-warranty products and services within Appendix B. Accompanying the pricing, Respondents shall provide narrative documents describing the proposed products and services.
- 2.13.5. If Respondents wrap several products and services into a larger offering, they shall detail each.

SECTION 3 PROJECT COMPLETION & LIQUID DAMAGES

- 3.1.1 SCHEDULE - TIME OF COMPLETION; ALL Work shall be fully complete within the required time allowed. Missaukee County requires the Work to be **FINAL COMPLETION NO LATER THAN Wednesday May 8, 2019.**
- 3.1.2 FINAL COMPLETION # 1 DATE – The project work including all purchasing, programing, installations, cleanup, and completion of punch list shall be no later than **Final Completion Date # 1 of Wednesday May 8, 2019.**
- 3.1.3 LIQUIDATED DAMAGES: If the Respondent/SELECTED VENDOR fails to achieve final Completion on or before the required date as specified, the Contractor’s surety agree to pay Missaukee County liquidated damages.
- a) **Liquidated damages for failure to meet the Final Completion #1 date Wednesday May 8, 2019 shall be \$2,500.00 per day until Final Completion #2 date.**
- b) **Liquidated damages for failure to meet the Final Completion #2 date of Wednesday June 12, 2019 shall be \$5,000.00 per day starting on the required date of Final Completion #2 until Final Completion is achieved.**
- 3.1.4 Final Completion and submittal of Final Contractor’s Pay Application to the County shall be completed no later than 30 days after Final Completion date.

SECTION 4 CONTRACT AWARD

- 4.1.1 Missaukee County reserves the right to accept any proposal, reject any or all proposals or phases thereof, waive irregularities or informalities in any proposal, and make the award in any manner deemed in the best interest of the Missaukee County. Missaukee County intends to select and contract with the contractor that demonstrates, in their opinion, the highest degree of technical merit. With that contractor, Missaukee County will negotiate the technical aspects of the scope of work, deliverables, schedule and fee. However, if a negotiated agreement can't be reached, Missaukee County may open negotiations with the contractor that demonstrates the next highest degree of technical merit.
- 4.1.2 Should the County determine at its sole discretion that only one (1) Respondent is fully-qualified, or that one Respondent is clearly more highly- qualified and suitable than the others under consideration, the County may negotiate and award a contract to that Respondent.
- 4.1.3 If Respondents have a standard contract format they prefer, they shall include an example in their proposal submission for the County to review and consider. Respondents must understand that as public entities, there are certain contractual stipulations that the County must have present in all contracts and other contract terms. Respondents may consider standard for private-sector clients that the County, as a political subdivision, are unable to agree to. The successful negotiation of contract terms is an integral part of this process.

- 4.1.4 A Best and Final Offer (BAFO) process represents an optional step in the selection process and may be used when:
1. No single response addresses all the specifications
 2. The cost submitted by all Respondents is too high
 3. The scores of two or more Respondents are very close after the evaluation process
 4. All Respondents submitted responses that are deficient in one or more area
- 4.1.5 The County reserves the right to negotiate the fee and/or scope of services with the highest ranked Respondent. If negotiations with this Respondent cannot be completed successfully, then the County reserves the right to negotiate with the second highest-ranked Respondent. Recommendations for an award will be the Respondent with whom potential contract negotiations were successful.
- 4.1.6 At the sole discretion of the County, Respondents may also be asked to provide a sample of proposed equipment and/or systems to demonstrate capabilities and features. This request may include, but not be limited to subscriber radio equipment and system components.

SECTION 5 PROJECT SCOPE OF WORK

- 5.1.0 The County seeks to obtain proposals for the purchase and installation of 700/800 MHz, Project 25 Phase 2 trunked radio system equipment to operate on the State of Michigan's MPSCS Radio System including;
- 1) VHF Radio Repeater Site Equipment**
 - 2) Sheriff patrol mobile radios and portables radios**
 - 3) Sheriff correction/jail portable radios,**
 - 4) Sheriff 911-dispatch radios, with radio console interface/ Dispatcher Head-set system & Sit-Stand Desk Top system**
 - 5) Emergency Medical Services (EMS) mobiles and portables**
- 5.1.1 The selected vendor shall ensure that all necessary paperwork, requests, installation, and activation of the project radios meet the Michigan Public Safety Communications Service (MPSCS) policies and requirements necessary for this radio/data installation project. This includes all the MPSCS policies including the following:
- 1) Policy 2.1.2, System Activation Checklist and Report.
 - 2) Policy 3.1.7, MPSCS Radio Configuration and Programming Standards
 - 3) Policy 4.1.2, Grade of Service
- 5.1.2 The selected vendor is responsible for coordinating with the MPSCS to ensure the current number of available Talkgroups is sufficient to handle the increased volume in radio traffic by Missaukee County coming on the MPSCS system through this proposal. The vendor will be responsible as part of this request for any additional costs/work necessary for the addition of Talkgroups to the MPSCS Infrastructure.
- 5.1.3 The selected vendor is responsible for calculating ALL associated installation and activation fees that may be required to be paid to the State of Michigan and the MPSCS, and provide an itemized cost spreadsheet document and include in the bid documents.

- 5.1.4 The selected bidder shall be responsible for furnishing a complete and fully functional system including, but not limited to the requirements as listed in this package. The requirements listed within this package serve as a tool for the base minimum that should be contained within the bids:
- a) Furnishing and installing system equipment
 - b) Software installation and programming
 - c) Acceptance and Testing Coverage
 - d) Warranty and Maintenance
 - e) MPSCS Subscription / Activation for all equipment

5.2 Turn-Key Approach

- 5.2.1 The desired proposal is one in which the Bidder delivers, installs, and configures specified equipment and provides documentation. This RFP specifies equipment and performance standards. It is the BIDDER'S responsibility to determine the specific hardware, software, accessories, and services required to deliver a fully-functional system.

5.2 Existing System

- 5.2.1 Missaukee County currently operates a VHF network for Sheriff's Patrol, Fire and EMS communications.
- 5.2.2 The existing VHF system is a single transmit site utilizing VHF analog. The system has (2) site locations at: (Please refer to the following coordinates for each location)
- 1) Sheriff's Office Tower: 44.333663, -85.213061
 - 2) Verizon Wireless SBC Tower: 44.641336, -86.016713
 - 3) Missaukee County also operates on the 800MHz Digital MPSCS network for Emergency Management Radio Control Station
 - 4) Sheriff's Office Roof Top: 44.333663, -85.213061

5.3 Site Visits & Locations:

- 1) Site visits are considered part of the BIDDERS' due diligence for accurate bids and are highly encouraged. All BIDDERS shall submit a document with the bid stating that appropriate due diligence has been performed with respect to investigating existing radio frequency resources, communications system infrastructure/facilities, backhaul components, and other such items.
- 2) All BIDDERS shall specify in their proposals any provisions required implementing the proposed solution such as environmental and building permits and allocation of additional infrastructure resources (e.g., radio communications towers, electrical power, space, etc.).
- 3) Base station installations and inspections of vehicles and ambulances can be made at the following locations after making prior arrangements with the organization.
- 4) The locations include:
 - a) Missaukee County Sheriff's Office - 110 South Pine Street Lake City, MI. 49651
 - b) Missaukee County EMS Office - 404 First Street Lake City, MI. 49651
 - c) Verizon Wireless Site # 200879 / American Tower Corporation Site #417871 Lake City
 - d) Tower Location - 920 E. Kelly Rd, Falmouth MI. 49632

5.4 VHF Radio Repeater Site Equipment

- 5.4.1 Replacement of two (2) current Motorola XPR8300 base radio repeaters, duplexer, preselector, for the current FIRE and EMS VHF radio channels with installation and programming at the Verizon Wireless SBC Tower Location.

5.5 Sheriff's Office Road Patrol Radio(s)

- 5.5.1 Respondent will provide a quantity = Fifteen (15) Portable Radios, fifteen (15) speaker microphones, nine (9) single unit chargers, with one (1) six unit charger, fifteen (15) leather holsters, and programming of radios.
- 5.5.2 Respondent will provide a quantity = Fifteen (15) Mobile radios (remote mount mobiles) with installation and programming, to include removal of current VHF mobile radios.
- 1) Three (3) of the Mobile Radios and One (1) Remote mount mobile with installation and programming for the communications van, to include removal of one (1) front cab VHF radio, and removal of two (2) current VHF radios from back counter.

5.6. Sheriff's Department Corrections/Jail Radio(s)

- 5.6.1 Respondent will provide One (1) FCC licensed 700 MHz channel for communications, and a quantity of Five (5) Portable Radios, with speaker microphones, single unit chargers and radio programming.

5.7 Sheriff's Department Dispatch Radio(s)

- 5.7.1 Respondent will provide One (1) seven-and-a-half foot rack and grounding, connectivity for full operational use on current MCC5500 console for a total of four (4) Continuous Duty Radio Consolettes with antenna, line, installation and programming;
- (1) Law Enforcement Continuous Duty Radio Consolette (57P911)
 - (1) Corrections/Jail Continuous Duty Radio Consolette (57JAIL)
 - (1) EMS Continuous Duty Radio Consolette (57E911)
 - (1) FIRE Continuous Duty Radio Consolette (57F911)

5.8 Dispatch Department Dispatch Wireless/Remote Headset System

- 5.8.1 Respondent will provide a Wireless/Remote Headset system with six (6) headsets for radio & telephone (Power Phone 9-1-1 system radio, (MCC5500 & VIPER Power 911) systems.
- 1) Respondent shall include the purchase and installation of a Plantronics CA12CD-S cordless PTT (push-to-talk) headset system designed to provide wireless communications and PTT functionality for applications such as Public Safety Dispatch. The system will need to accommodate a two (2) position dispatch configuration for both dispatchers to operate separate head set systems. The CA12CD-S is supplied with the analog Console Interface Cable (PJ-7). For digital applications, Model SSP 2468-01 (sold separately) can be installed. This USB-PTT Adapter Cable replaces the Console Interface Cable and provides a complete digital solution. The CA12CD-S uses digital processing (DECT™ 6.0), and operates in the UPCS band (1.92 – 1.93 GHz) in North America. European versions are also available that operate within the DECT frequency range (1.88 – 1.90 GHz). Various connector options available upon request.

5.9 Dispatch Department Dispatch Sit-Stand Desk System

5.9.1 Includes two (2) electric powered sit-stand workstations that will retrofit existing desk compatible with a four (4) monitor configuration. Example would be product equivalent to an “Ergotech One Touch Sit-Stand Ultra System”.

5.10 Missaukee County EMS Mobile and Portable Radio(s)

5.10.1 Respondent will provide a quantity = ten (10) Portable Radios, ten (10) speaker microphones, ten (10) single unit charger, ten (10) belt clips, and programming of radios.

5.10.2 Respondent will provide a quantity = Ten (10) Mobile radios remote mount mobiles with installation and programing, to include removal of current VHF mobile radios.

SECTION 6 PROJECT GENERAL RADIO EQUIPMENT SPECIFICATION REQUIREMENTS

6.1 Protocols and Systems Supported

6.1.1 Radio must be available in any single frequency band (7-800Mhz), supporting P25 Trunking operation, as well as P25 Conventional and Analog Conventional.

6.1.2 Radio must be able to interoperate with SmartNet and SmartZone 3600 baud trunking systems.

6.2 Information Assurance

6.2.1 Radio must be capable of supporting both software and hardware-based encryption for digital communication (Advanced Digital Privacy - ADP Encryption).

6.2.2 Radio must be FIPS certified for 140-2 Level 3 security. Level 3 and above ensure that physical tampering of the encryption module can be detected. If detected, encryption keys are wiped from the module.

6.2.3 Radio must be able to support P25 Radio Authentication to prevent unauthorized cloned radios from utilizing private network resources.

6.2.4 Radio must support AES and Advanced Digital Privacy (ADP) Encryption.

6.2.5 Radio must support at least 48 encryption keys.

6.2.6 Radio must provide FIPS 140-2 Level 3 certified Encrypted data for services on P25 IV&D Systems including Geofencing commands, GPS, Text Messaging, and OTAP.

6.2.7 Radios must support Two Factor Authentication which enables query of the CJIS (Criminal Justice Information System) database.

6.2.8 Over-the-Air-Rekeying

- a) Radio must support the key-lost-key function in order to allow user to request a new key even in the event that the Unique Key Encryption key (UKEK) has been lost.
- b) Radio must support OTAR keyset Changeover command in order to prevent interruption of encrypted communications with radios which may have not received new keys.

- c) Encrypted radios must be capable of Over The Air Re-Keying radio-to-radio without requiring infrastructure support (tactical OTAR) or similar

6.3 Audio Features

- 6.3.1 Adaptive Dual Microphones Noise Cancelling – Portable radio must have 2 microphones for noise suppression, and be able to suppress background noise regardless of the orientation of the radio relative to the voice source without attenuating the talker's voice. (Note: not applicable to mobiles)
- 6.3.2 The subscriber shall be capable of being configured to cancel out specific background noises such as those created by a PASS alarm worn by firefighters, as well as other types of alarm noise.
- 6.3.3 The radio shall be configurable to different levels of noise suppression settings for different operating environments.
- 6.3.4 Radio must be equipped with background noise reduction DSP algorithm to reduce background noise picked up by the radio microphones in both analog and digital modes.
- 6.3.5 Radio must have an Automatic Gain Control feature to automatically adjust microphone gain to compensate for differences in voice level and radio operation.
- 6.3.6 Radio must have adjustable speaker treble control.

6.4 Programming Features

- 6.4.1 Radio must be equipped with an internal USB port for high speed programming of radio configuration and software upgrades.
- 6.4.2 Programming software should be capable of copying radio channel information and radio configuration between portable and mobiles or between tiers by simple "Drag and Drop" operation.
- 6.4.3 Programming software should be equipped with a security feature to allow control and security over programming of radios onto the system.
- 6.4.4 Programming software should be equipped with a Hardware security feature to allow control and security over programming of radios onto the system via a hardware-based system key.
- 6.4.5 Radio must support the FRHOT function, which prevents system flooding once a failsoft scenario is over and users want to come back on line.
- 6.4.6 A software application must be available to allow for the management of radio codeplugs, templates, personalities or profiles that store system, channel, talkgroup and other radio configurations.
 - a) The software application must have the ability to store these files in a database and keep track of each individual configuration file on a per radio basis.
 - b) The software application must have the capability of scheduling at least 100 subscribers for updates to systems, talkgroups, channels and other configurations.
 - c) The application must also include a programming interface that can be loaded on a remote computer that allows the user to connect the subscriber via USB on the remote computer and receive programming updates over IP.

- d) A codeplug template must be shareable across multiple radios and changes to the template must be automatically applied to all affected radios to reduce fleet programming time.
- e) Over the air programming must not interfere with radio user by requiring them to switch to a non-busy channel or remain in an area with high signal strength during data download.
- f) All radio functions and capabilities must remain accessible and enabled during data download.
- g) The user must be able to transmit and receive as normal during the data download without causing the over the air programming to be aborted.
- h) Batch programming should allow a minimum of 500+ radios to be scheduled for Over the air / remote programming.

6.5 User Interface

- 6.5.1 Radio must be capable of customizable channel voice annunciations to give an audible announcement of channel and zone changes as well as button presses to actuate other functions (ex. “scan on” or “scan off”). Voice Annunciations can be recorded in .wav file format and programmed into the radio.
- 6.5.1 Radio soft programmable function keys must be capable of four or more separate functions without requiring reprogramming.
- 6.5.2 Radio must provide lighting & colored indications on both the displays and keypad to visually notify users of incoming calls, potential emergencies, and system events (i.e. low battery, out-of-range). Green indicates User Status Event, Orange indicates High Alert Event (emergency), and Red indicates Radio System Event (potential loss of communication).
- 6.5.3 Radio must have option to store multiple selectable user profiles to allow the user to customize the radio's lighting, programmable buttons, audio levels, and tones.
- 6.5.8 Radio must have a consolidated call list so users can easily access all information associated to a particular contact at once.
- 6.5.9 Radio must display pre-defined text messages, menu text, zone channel alias, out of range and other UI messaging in English.
- 6.5.10 Radio must allow the user to edit or type text in English.
- 6.5.11 Radio must have a Signal Strength Indicator Icon for P25 Trunking on radios equipped with a front display.
- 6.5.12 Radio must allow the user to search by typing in a channel or talkgroup name with the radio keypad.
- 6.5.13 Radio must be capable of creating a Blank Zone via the programming software and then allow the user to add channels to the zone through the radio's keypad.
- 6.5.14 User must be able to edit the radio unit's ID on a conventional system through the radio keypad to provide unique identification if multiple users are assigned to the same radio at different shifts.

6.5.15 Radio display

- 1) Portables must support at least 3 lines of characters and be able to fit up to 14 alpha numeric characters per line and 1 line of icons.
- 2) Mobiles must support at least 2 lines of characters and be able to fit up to 14 alpha numeric characters per line and 1 line of icons.

6.6 Integrated Voice & Data Applications

6.6.1 Radio must be capable of supporting P25 data for Trunking and Conventional systems.

6.6.2 Radio must support AES Encrypted Radio to Radio Packet Data or similar systems.

6.6.3 Over-the-Air Programming over P25 Trunking systems

- 1) OTAP must not interfere with radio user by requiring them to switch to a non-busy channel or remain in an area with high signal strength during data download.
- 2) All radio functions and capabilities must remain accessible and enabled during data download.
- 3) The user must be able to transmit and receive as normal during the data download without causing the OTAP session to be aborted.
- 4) The OTAP system must require a Hardware System Key as a security feature to prevent unauthorized programming of fielded radios.
- 5) Portables and Mobiles must be equipped with "soft buttons" so that physical button labels do not have to be replaced or updated at the service shop after the button functionality was updated via OTAP.
- 6) A common piece of software should provide the ability for technicians to program radios via OTAP or traditional wired method in order to minimize training.
- 7) Batch programming should allow up to 16 radios to be scheduled for OTAP successively.

6.6.4 Alphanumeric Text Messaging

- 1) An audible alert must notify the user of a received text message.
- 2) Undeliverable messages must be saved on a server to be delivered once the radio or user becomes available.
- 3) Messages must be logged on a server.
- 4) The service must allow messages to be sent to multiple radios/dispatchers.
Radio must support free form Alphanumeric Text Messaging on models with a display and full alpha-numeric keypad.

6.6.5 The radios must be capable of transmitting GPS coordinates via P25 Trunking IV&D system for mapping at dispatch.

- 6.6.6 Radio must be able to send packet data over a Conventional or Trunking P25 System, and allow the radio network to be scalable without being constrained by hardcoded IP addresses.
- 6.6.7 Radio must support Enhanced Integrated Data - 10x increase in GPS data capacity using same number of frequencies – less system resources used per tracked subscriber.
- 6.6.8 Radio must support Dynamic GPS Polling – based on Distance Traveled, Time, PTT, Emergency Press, Man-down.
- 6.6.9 Radio must support Conventional Location on PTT – shows location and bearing of nearby radios on radio display; updated whenever the PTT is pressed.
- 6.6.10 Radio must support Trunking Location on PTT – radio location and bearing updated at dispatch on PTT presses.
- 6.6.11 Radio must support Seamless OTAP – Partial Codeplug Rewrite using RM + Batch Programming.
- 6.6.12 Radio must support Geo-fencing for Automatic Talkgroup and/or System steering plus Subscriber notifications such as voice announcement triggers, display color changes (Red Zone, Yellow Zone, Green Zone). Dispatcher can update geofences stored in subscriber fleets on the fly.
- 6.6.13 Radio must be capable of Conventional Talkgroups – Set up multiple talkgroups to share frequencies on a conventional system (more frequency efficient); partition conventional channels.
- 6.6.14 Radio must be capable of receiving and sending broadcast Group Text Messages – Group text messages were previously sent out one at a time (serially) which made sending to large talkgroups not feasible. Now they can be sent out simultaneously to all subscribers on a talkgroup.
- 6.6.15 Radio must be capable of Firmware updates over the P25 system – Firmware updates can be continually broadcast over a multiday period. All subscribers can simultaneously pick up bits and pieces of this update when possible, until a complete firmware file is built and the user is prompted to install. Allows updating fleets of radios in a fraction of the time it took before.
- 6.6.16 Radio must be capable of Alias Download – Updates the current Alias of a subscriber in all the other radios in a fleet. Using this feature with TMS login allows any user to use any radio; the user associated with the logged-in alias is displayed on receiving radios.
- 6.6.17 Radio must be capable of Adaptive Power Control – lowers subscriber transmit power to medium when RSSI is good; batteries last longer.

6.7 Channel Capacity

- 6.7.1 Radio must have a minimum of 870 Channels/ talk-groups.

6.8 Portable Radio Specifications

- 6.8.1 Hardware Features
- 6.8.2 Radio must have an integrated Bluetooth transceiver that will pair with an audio Bluetooth accessory in less than 2 seconds using Near-Field Out-of-Band pairing for secure operation and transfer of security keys.

- 6.8.3 A GPS receiver must be integrated into the radio's internal hardware and the radio must be able to transmit GPS location data via a P25 Conventional and/or Trunking IV&D equipped system for mapping at dispatch. Current Mapping system is Digital Data Technology's AccuGlobe 911 Mapping Solution.
- 6.8.4 Radio must have a front color display with multi-color backlight to support 1 line of icons and 1 line by 8 characters of text and display zone / channel information as well as signal strength and battery life indicator.
- 6.8.5 Radio must be equipped with tri-axis accelerometer for integrated Man Down solution and future applications. Man down must trigger emergency notification to all users within a talkgroup and send user ID and GPS location coordinates to dispatch.
- 6.8.6 Radio must support a Smart Vehicular Charger.

6.9 Ergonomics

- 6.9.1 The radio must have a front main display.
- 6.9.2 Radio control top should be equipped with a multi-function knob
- 6.9.3 Radio must have a protruding shoulder-like feature at the top of the radio to prevent the radio from slipping through the users hands.
- 6.9.4 Radio must be manufactured with a durable high-strength tempered glass display lens on the front main display for clear viewing through polarized lenses and high resistance to scratching and impact.
- 6.9.5 The front main display should be a color LCD.
- 6.9.6 Radio must have 3 side programmable buttons.
- 6.9.7 Large Push-to-Talk Button - The PTT should be able to be actuated from any location on the PTT button, even on the extreme ends of the PTT.
- 6.9.8 Radio must have a microphone on both sides and have the ability to receive and transmit audio with the same clarity and loudness regardless of its orientation relative to the user.

6.10 Environmental Specifications

- 6.10.1 Radio, Battery and accessories must be UL approved as Intrinsically Safe Class 1 Division 1.
- 6.10.2 Radio must be capable of IP67 immersion to a depth of 1 meter for 30 minutes when equipped with an Immiscible option.
- 6.10.3 Radio must be capable of Delta-T immersion for immersion capability even during drastically changing temperature environments.

6.11 Battery

- 6.11.1 Radio must be equipped with intelligent batteries for fuel gauge accuracy and automatic reconditioning.
- 6.11.2 Intelligent batteries must have internal circuitry to record the charging, discharging and reconditioning history of the battery and be able to communicate with a smart charger so that the smart charger can appropriately recondition batteries as needed to maximize battery life.
- 6.11.2 Radio must be equipped with an 8-10 hr standard battery (based on a 5-5-90 duty cycle) ~ 7/800MHz and must have an option for a high capacity battery capable of 10-12 hours (based on a 5-5-90 duty cycle) ~ 7/800MHz.

6.12 Maximum RF Power

- 6.12.1 Radio must be capable of transmitting 3 W of Power on both 700 MHz and 800 MHz frequency bands.
- 6.12.2 Radio must support Portable Adaptive Power Control for extended battery life.

6.13 Mobile Radio Specific Specifications (Previous data features and others still apply)

- 6.13.1 GPS receiver must be internal to the radio and be capable of transmitting coordinates via P25 IV&D for mapping at dispatch. Current Mapping system is Digital Data Technology's AccuGlobe 911 Mapping Solution.
- 6.13.2 Radio must have a countdown timer for powering off to begin once ignition sense is lost. This prevents current drain on vehicle by turning off radio at a predetermined amount of time once the user has left the vehicle. Powering off can be overridden by power button press

6.14 Maximum RF Power

- 6.14.1 Radio must be capable of transmitting 10-35 Watts of Power on both 700 MHz and 800 MHz frequency bands.

SECTION 7 MULTIBAND CONSOLETTTE SPECIFICATIONS

7.0 Multiband Consolette Specifications

- 7.1 Must be available in 700-800 MHz.
- 7.2 Must support up to 200 Channels.
- 7.3 Should support optional multiband operation.
- 7.4 Must support the following trunking standards:
 - 1. Clear or digitally encrypted ASTRO® 25 Trunked Operation or similar
 - 2. Capable of SmartZone®, SmartZone Omnilink, SmartNet® or similar
- 7.5 Must support Analog MDC-1200 and Digital APCO P25 Conventional System Configurations.
- 7.6 Must provide a Narrow and Wide bandwidth digital receiver.
- 7.7 Must include embedded digital signaling (ASTRO and ASTRO 25) or similar.

**Missaukee County Request for Proposals
Public Safety Radio Communications Enhancement Project**

- 7.8 Must support Integrated Encryption Hardware.
- 7.9 Must support Seamless Wideband Scan.
- 7.10 Must support Intelligent Priority Scan.
- 7.11 Must support Intelligent Lighting.
- 7.12 Must support Radio Profiles.
- 7.13 Must support Unified Call List.
- 7.14 Must support Tone remote control.
- 7.15 Must support Tactical Inhibit.
- 7.16 Must support Instant Recall.
- 7.17 Must support ACIM/CCGW interface including:
 - 1) ID decode
 - 2) Call alert encode

- 7.18 Interfaces supported must include:
 - 1) Recorder
 - 2) Wireline
 - 3) Vehicle Interface Port
 - 4) Crosspatch
 - 5) Headsets (2)

- 7.19 Must support 110/220VAC operation with battery revert capability.
- 7.20 Must include a VU Meter and Clock.
- 7.21 Must have an Expansion Slot standard.
- 7.22 Must have two configurations available:
 - Full featured front panel
 - Limited front panelMust provide Customer Programming Software to support the following:
 - Utilizes Windows 7, XP and Vista
 - Supports USB Communications
 - Built in FLASHport™ support or similar

- 7.22 The consolette should provide the following optional features:
 - 7.22.1 Text Messaging
 - 7.22.2 Over the Air Rekeying (OTAR)
 - 7.22.3 Extended Dispatch Operation including:
 - 1) Emergency Alarm ACK Encode
 - 2) Radio Inhibit/Uninhibit Encode
 - 3) Radio Monitor Encode
 - 4) Radio Check Encode
 - 5) Status Query Encode
 - 6) Status Query Response Decode
 - 7) Status Update Decode
 - 8) Message Update Decode

BID FORMS

AND AFFIDAVITS

TO BE RETURNED AS PART OF PROPOSAL

PROPOSAL SUBMISSION CHECKLIST

Company Name: _____

- . _____ Detailed proposal:
- . _____ BID FORM(s) Sealed in Bid Envelope (Include any alternative bid plans with brief and concise statement of differences and benefits.)
- . _____ Bid Bond Sealed in Bid Envelope
- . _____ Itemized COST FORM(s), Sealed in Bid Envelope
- . _____ Detailed references and list of all similar projects performed in the previous three (3) years.
- . _____ NON-DISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY AFFIDAVIT FORM
- . _____ STATEMENT OF INDEMNIFICATION
- . _____ NON-COLLUSION AFFIDIVIT
- . _____ NON-IRAN BUSINESS CERTIFIATION AFFIDAVIT

BID FORM
Missaukee County Project

All **Bidders** must complete this Form

Name of Company: _____

Address: _____

Telephone: _____

*TOTAL AMOUNT OF BID:

_____ DOLLARS (\$_____)

AMOUNT OF BID BOND OR CERTIFIED CHECK (ATTACH TO THIS FORM)

_____ DOLLARS (\$_____)

**Signed: _____

Title: _____

Company: _____

State of Incorporation: _____

Officers Signatures:

1) Name _____

2) Name _____

*This total shall be based on the delivery and acceptance of all items listed.

**The person signing the bid must be duly authorized to do so. This form must be signed by two officers of the corporation and notarized.

Complete Attached COST FORM.

Note: Return this form along with the BID BOND or certified check.

BID FORM - ALTERNATIVE
Missaukee County Project

All **Bidders** must complete this Form if submitting Alternative Bid(s).

Name of Company: _____

Address: _____

Telephone: _____

*TOTAL AMOUNT OF BID:

_____ DOLLARS (\$_____)

AMOUNT OF BID BOND OR CERTIFIED CHECK (ATTACH TO THIS FORM)

_____ DOLLARS (\$_____)

Signed: _____

Title: _____

Company: _____

*This total shall be based on the delivery and acceptance of all items listed.

Complete Attached COST FORM.

Note: Return this form along with the BID BOND or certified check.

**NON-DISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY
AFFIDAVIT**

STATE OF MICHIGAN

COUNTY OF MISSAUKEE

_____ being first duly sworn, deposes and says that

he/she is _____ of _____,
(Title) (Company)

the party who made the foregoing proposal; that such party as bidder does not and shall not discriminate against any employee or application for employment because of race, creed, color, sex, age, religion, handicap, familial status or national origin. If awarded the bid and contract under this proposal, said party shall take affirmative action to insure that applicants are employed and that employees are treated, during employment, without regard to their race, creed, color sex, age, religion, handicap, familial status or national origin. If successful as the lowest and best bidder under the foregoing proposal, this party shall post non-discrimination notices in conspicuous places available to employees and applicants for employment setting forth the provisions of this affidavit.

Name of Bidder: _____

Address: _____

Authorized Representative: _____

Title: _____

Signature: _____ Date: _____

Subscribed and duly sworn before me according to law, by the above named applicant this ____ day of _____, 2018 at _____, County of _____ and the State of _____.

(Official Seal of Notary) **SIGNATURE** _____

**NON-IRAN BUSINESS CERTIFICATION
AFFIDAVIT**

STATE OF MICHIGAN

COUNTY OF MISSAUKEE

Pursuant to Michigan law (Iran Economic Sanctions Act, Michigan PA 517 of 2012), before accepting any bid or proposal or entering into any contract for goods and services with any prospective vendor, Missaukee County must obtain certification from the vendor that it is not an “Iran-Linked Business.”

By signing below, I certify and agree on behalf of the company submitting this form and myself the following: (1) that I am duly authorized to legally bind the company submitting this proposal; (2) that the company submitting this proposal is not an “Iran-Linked Business,” as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, Michigan PA 517 of 2012; and (3) that I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the county in this regard.

Company Name _____

Authorized Representative: _____
(printed name and title)

Signature _____ **Date** _____

STATEMENT OF INDEMNIFICATION

AFFIDAVIT

STATE OF MICHIGAN

COUNTY OF MISSAUKEE

The Bidder hereby agrees that if his or her bid is accepted, that he/she will assume all risk of injuries to property or persons, including death resulting therefrom arising from the performance of the work under this bided project, or in connection therewith, or appertaining thereto, sustained by the Bidder, the employees of the Bidder, the employees of the county and/or any other person. The Bidder does hereby agree to protect, indemnify, and hold harmless MISSAUKEE COUNTY and participating jurisdictions and agencies against any and all actions, claims, demand or liabilities for death, personal injuries or property damage arising from the performance of the work under this proposed project by any person as aforesaid for any cause whatsoever, not including, however any act of negligence or omission by MISSAUKEE COUNTY or its authorized representatives and employees, and any defect in the premises, machinery or equipment of MISSAUKEE COUNTY. In addition, the Bidder shall pay all expenses, which MISSAUKEE COUNTY may incur in the investigation and/or defense of any such claim, including counsel fees and court costs.

Company Name _____

Authorized Representative: _____
(printed name and title)

Signature _____ **Date** _____

STATEMENT OF NON-COLLUSION

AFFIDAVIT

STATE OF MICHIGAN

COUNTY OF MISSAUKEE

The party making the foregoing BID; that such Bid is not made in the interest or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such Bid is genuine and not collusive or sham; that said Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham Bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham Bid, or that anyone shall refrain from bidding; that said Bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the Bid price of said Bidder or of any other Bidder, or to fix any overhead, profit, or cost element of such Bid price, or of that of any other Bidder, or to secure any advantage against the Owner awarding the contract or anyone interested in the proposed contract; that all statements contained in such Bid are true; and, further, that said Bidder has not, directly or indirectly, submitted his Bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, Bid depository, or to any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said Bidder in his general business.

Company Name _____

Authorized Representative: _____
(printed name and title)

Signature _____ **Date** _____

Missaukee County Request for Proposal
Public Safety Radio Communications Enhancement Project

Proposal Pricing Cost Form # 2							
2 Sheriff's Office Road Patrol Radios (Mobiles & Portables)							
Item	Description	Qty	Unit Cost	Extended Cost	Installation Cost	Additional Fees	Total Cost
Sheriff's Office Road Patrol Radio(s) Project Total Cost =							

Photo Copy If Additional Cost Forms Are Required To Submit With Proposal

Missaukee County Request for Proposal
 Public Safety Radio Communications Enhancement Project

Proposal Pricing Cost Form # 6

1	VHF Radio Repeater Site Equipment Enhancement Project
2	Sheriff's Office Road Patrol Radios (Mobiles & Portables) Project
3	Sheriff's Office Corrections/Jail Portable Radios Project
4	Sheriff's Office Dispatch Radios w/ radio console interface & Headset & Sit-Stand Desk Top System(s) Project
5	Emergency Medical Services Radio(s) (Mobile & Portable) Project
Public Safety Radio Communications Enhancement Project	
Proposal Total Cost	

DECLINE TO BID FORM

If your company does not intend to bid on this procurement, please complete and return this form prior to the date shown for receipt of bids to:

James D. Bosscher, Sheriff
Missaukee County Sheriff's Office
PO Box 800
110 South Pine Street
Lake City, MI. 49651
j.bosscher@missaukeesherriff.net

We, the undersigned, decline to bid on the above referenced invitation to bid for the following reasons:

- Specifications are too restrictive (please explain below or attach separately)
- Unable to meet specifications
- Specifications were unclear (please explain below or attach separately)
- Insufficient time to respond We do not offer this product or service
- Our schedule would not permit us to perform at this time
- Unable to meet bond requirements
- Other (please explain below or attach separately)

Remarks: _____

Company Name: _____

Telephone #: _____ **Fax #:** _____

Signature: _____

Printed Name: _____

Address: _____

City: _____

Zip: _____