

CITY OF UNALASKA
UNALASKA, ALASKA

RESOLUTION 2021-52

A RESOLUTION OF THE UNALASKA CITY COUNCIL AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT WITH PROCOMM ALASKA LLC FOR THE CONSTRUCTION OF THE REPEATER SITE AND RADIO UPDGRADES PROJECT IN THE AMOUNT OF \$755,568

WHEREAS, the Repeater Site and Radio Upgrades Project is an approved component of the Capital & Major Maintenance Program; and

WHEREAS, the City of Unalaska has determined that it is in the best interests of the residents of the City of Unalaska to have such a Project; and

WHEREAS, the City of Unalaska has provided funding for the Project, which addresses issues of FCC compliance, equipment obsolescence and needed safety enhancements in the current Dispatch offices of the Department of Public Safety as well as the Haystack Repeater Site; and

WHEREAS, the City Manager has approved a sole source procurement of the Project's construction from ProComm Alaska LLC based upon the criteria set forth in the City's Purchasing Policy No. 14-0803 §1.h.A.3.


NOW THEREFORE BE IT RESOLVED that the Unalaska City Council authorizes the City Manager to enter into an Agreement with Procomm Alaska LLC to construct the Repeater Site and Radio Upgrades Project for \$755,568.

PASSED AND ADOPTED by a duly constituted quorum of the Unalaska City Council on July 27, 2021.



Vincent M. Tutiakoff
Mayor

ATTEST:



Marjie Veeder, CMC
City Clerk



MEMORANDUM TO COUNCIL

To: Mayor and City Council Members
From: Jay King, Chief of Police, Department of Public Safety
Through: Erin Reinders, City Manager
Date: July 27, 2021
Re: Resolution 2021-52: Authorizing the City Manager to enter into an Agreement with ProComm Alaska LLC for the construction of the Repeater Site and Radio Upgrades Project in the amount of \$755,568

SUMMARY: Resolution 2021-52 will authorize the City Manager to enter into an Agreement with ProComm Alaska LLC, who employ Alaska's only Motorola certified technicians, for the construction of the Repeater Site and Radio Upgrades Project (MUNIS Project PS18A) for a total of \$755,568. Funding is available in the Project's budget.

PREVIOUS COUNCIL ACTION: Council approved the FY18 Budget, Ordinance 2017-07, on May 23, 2017, providing \$110,000 in initial funding for the Project. The FY19 Budget, Ordinance 2018-04, adopted May 22, 2018, added \$200,000 to the Project, and the FY20 Budget, Ordinance 2019-07, adopted May 28, 2021, added \$690,000. Budget Amendment #5 to the FY21 Budget, adopted via Ordinance 2021-04 on February 23, 2021, provided an additional \$500,000. The total amount appropriated for this project is \$1,500,000.

BACKGROUND: This project consists of the procurement and installation of Motorola and Motorola compatible equipment at both the Repeater Site on Haystack Hill as well as the Department of Public Safety Facility. In FY2016, ProComm Alaska LLC conducted an R56 Audit on the City's current Dispatch Center at the Department of Public Safety Facility as well as at the Repeater Station. Originally developed by Motorola to provide internal guidelines and requirements for the installation of communications equipment, infrastructure and facilities, the "Standards and Guidelines for Communications Sites" (R56) form the minimum standards required to provide expected system performance, reliability and equipment longevity, and have since become the recognized standard in the industry. R56 compliance audits provide a one-time, on-site evaluation of communication sites to determine compliance to minimum R56 standards. The results of the FY16 audit, conducted May 27, 2016, showed a spectacular fail for the City's system, and the Department began preparations for this project. This contract award is the culmination of those efforts.

DISCUSSION: The work under this contract award will cure the R56 Audit defects and consists of supplying equipment and technicians to upgrade, replace, and install radio system components as well as install the consoles, hardware, and software needed for both FCC required narrow-banding and E911 systems. Most of the current system's workings were manufactured prior to 2005 so parts are unavailable and components can no longer be programmed to the frequency ranges now required by the FCC. This work includes the purchase and installation of the E911 system as the final task of the Project.

Because ProComm Alaska LLC is the only Alaska-based distributor of Motorola equipment and trained technicians, sole sourcing was requested and approved by the City Manager as the procurement meets the criteria established in the City's Purchasing Policy #14-0802, §1.h.i.3.,

“Competition is determined inadequate after solicitation of a number of sources”. A copy of the proposed Construction Agreement with ProComm Alaska LLC is included with this Memorandum.

ALTERNATIVES: As this project brings the City’s current communications systems to industry standards and Federal compliance, there is no true alternative to this contract award. ProComm Alaska LLC is the only Alaska-based provider of these services and has been the City’s distributor and service agent for decades.

FINANCIAL IMPLICATIONS: There is \$1,072,842 available in the Project’s budget to be used to fund this Construction Agreement of \$755,568.

LEGAL: N/A

STAFF RECOMMENDATION: Staff recommends approval of this contract award.

PROPOSED MOTION: I move to adopt Resolution 2021-52.

CITY MANAGER COMMENTS: I support staff’s recommendation.

ATTACHMENTS: Form of Agreement with ProComm Alaska LLC for \$755,568.



CITY OF UNALASKA
Professional Services Agreement
Repeater Site and Radio Upgrades Project

Project No. 17102

Prepared By:
City of Unalaska
P.O. Box 610
Unalaska, Alaska 99685
907.581.1260

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AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT is entered into this _____ day of _____, 2021, by and between ProComm Alaska LLC (hereinafter called "Contractor"), and the CITY OF UNALASKA (hereinafter called "City").

WITNESSETH THAT:

WHEREAS City desires to engage Contractor to render the professional installation of Owner Furnished Materials, as set out in **Appendix 1** to this Agreement, and related services as set out in the Scope of Services to this Agreement, **Exhibit "A"**, for the City of Unalaska's **Repeater Site and Radio Upgrades Project**, and

WHEREAS Contractor represents that it has the experience, ability, licenses, and certifications to perform such services; and

WHEREAS the parties hereto desire to enter into an agreement setting forth the terms under which Contractor will, as requested, perform such work;

NOW THEREFORE the parties hereto do mutually agree as follows:

1. The Work

Contractor agrees to perform the work described in **Exhibit A- Scope of Services**; however, the Contractor is not authorized to perform any work or incur any expense which would cause the amount for which he is entitled to be paid under this Agreement to exceed the amount set forth in **Exhibit C – Fee Proposal** without the prior written approval of the City. All services shall be rendered in accordance with the schedule set forth in **Exhibit B – Contract Schedule**.

The work shall include but not be limited to the following: furnishing all equipment, transportation, per diem, travel, and supplies to perform all scopes of work that are authorized under its State of Alaska Professional General Contractor and Electrical Administrator Licenses in connection with the City of **Unalaska Repeater Site and Radio Upgrades Project** as detailed in the attached **Exhibit A – Scope of Services**.

The Contractor shall submit a copy of their State of Alaska Contractor's License, State of Alaska Electrical Administrator's License, State of Alaska Business License, Certification of Insurance, and City of Unalaska Business License, and all Subcontractor City of Unalaska Business Licenses, prior to commencement of the Work. All Work shall be performed in accordance with the Laborers' and Mechanics' Minimum Rates of Pay as required by Title 36 AS 36.05 & AS 36.10 published by the Alaska Department of Labor.

2. Contract Times

The Work will be substantially complete on or before March 15, 2022, and completed and ready for final payment on or before June 30, 2022.

3. Contract Sum and Payments

City agrees to make periodic payments to Contractor for completion of the Work as services are performed and costs are incurred, provided Contractor submits a proper invoice for each payment, in such form accompanied by such evidence in support thereof as may be reasonably required by the City. City may, at its option, withhold ten percent (10%) from each payment pending satisfactory completion

of the work by Contractor. All invoices are otherwise due and payable within thirty (30) days of receipt by City. City shall pay Contractor for the services identified in Exhibit A the **Not to Exceed Contract Sum of Seven Hundred Fifty Five Thousand, Five Hundred Sixty Eight (\$755,568)**. The portion of the Not to Exceed Contract Sum billed and paid for Contractor's services as set out on **Exhibit C – Fee Schedule** shall be equal to the proportion of services actually completed for each task set forth in **Exhibit A – Scope of Services** during the billing period to the fee total specified for that task.

Contractor may make application for final payment after Contractor has satisfactorily completed all Work defined in the Agreement, including providing all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, approved Alaska Department of Labor Notice of Completion, annotated record documents, and other documents.

The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted

4. Personnel

Contractor agrees to furnish all personnel necessary for expeditious and satisfactory performance of this Agreement, each to be competent, experienced, certified, and well qualified for the work assigned. No person objected to by the City shall be employed by Contractor for work hereunder. Contractor will submit courtesy copies of Alaska Department of Labor certified payroll documents to Owner at the time they are submitted to the State.

5. Insurance

Contractor shall provide insurance coverage for not less than the following amounts, or greater where required by Laws and Regulations:

- A. Commercial General Liability Insurance: \$1,000,000 per occurrence with a \$2,000,000 aggregate, including completed products and operations and personal liability insurance.
- B. Automobile Liability Insurance: \$1,000,000 Combined Single Limit Including owned, hired, and non-owned coverage.
- C. Statutory Workers' Compensation and Employer's Liability Insurance: \$1,000,000 Each Accident/Each Employee/Policy Limit.
- D. A Waiver of Subrogation on the Commercial General Liability Insurance, Automobile Liability Insurance, Statutory Workers Compensation and Employers Liability Insurance, Insurance: Contractor will hold the city harmless and provide a Waiver of Subrogation in favor of the Owner.

The Contractor is required to provide the Owner with a Certificate of Insurance naming the Owner as Additional Insured prior to the commencement of any Work or use of Owner facilities. The failure to object to contents of the Certificate of Insurance or the absence of same shall not be deemed a waiver of any and all rights held by the Owner. Additional Insured status on the Commercial General Liability shall be through ISO Additional Insured Endorsement CG2010 11/04 or equivalent.

In the event the Contractor utilizes a Subcontractor for any portion of the services outlined within the scope of its activities, the Subcontractor shall provide insurance of the same type or types and to the same extent of coverage as that provided by the Contractor. All insurance required of the Subcontractor shall

also name the Owner as an Additional Insured for all those activities performed within its contracted activities for the contract executed.

The Contractor acknowledges that failure to obtain such insurance on behalf of the City constitutes a material breach of Contract and subjects it to liability for damages, indemnification, and all other legal remedies available to the Owner.

6. Contractor's Responsibilities

Contractor shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with this Agreement. Contractor shall be solely responsible for the means, methods, techniques, sequences, safety, and procedures of construction. Contractor shall assign a competent resident superintendent who is to be present at all times during the execution of the Work. Contractor shall at all times maintain good discipline and order at the Site. In addition to and apart from the Work of the Contractor, other work may occur at or adjacent to the Site. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site.

Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work in accordance with Federal and State Departments of Labor Occupational Safety and Health Act (OSHA) and other local, state, and federal regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

- A. All persons on the Site or adjacent to the Site who may be affected by the Work;
- B. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
- C. Other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and underground facilities not designated for removal, relocation, or replacement in the course of construction.

All damage, injury, or loss to any property caused, directly or indirectly, in whole or in part, by Contractor, or anyone for whose acts the Contractor may be liable, shall be remedied by Contractor at its expense.

7. Warranties, Guarantees, and Indemnification

Contractor warrants and guarantees to Owner that all Work will not be defective, and Owner and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on Contractor's warranty and guarantee.

Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Agreement will pass to Owner free and clear of (1) all liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under this Agreement or otherwise, Contractor shall indemnify and hold harmless Owner and its officers, directors, members, partners, employees, agents, consultants, and subcontractors from and

against all claims, costs, losses, and damages arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any subcontractor, any supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts they may be liable.

All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with this Agreement, as well as all continuing obligations indicated in this Agreement, will survive final payment, completion, and acceptance of the Work or termination or completion of the Agreement or termination of the services of Contractor.

8. Owner's Responsibilities

Owner shall make payments to Contractor as provided in this Agreement, and provide Site and easements required to construct the Project.

Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs, or for any failure of Contractor to comply with Laws and Regulations and Codes applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with this Agreement.

While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed, and Owner shall furnish copies of any applicable Owner safety programs to Contractor.

9. Changes in the Work

Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work by issuing Change Orders. Owner and Contractor shall execute appropriate Change Orders covering changes in the Contract Price or Contract Times which are agreed to by the parties.

10. Claims and Dispute Resolution

The party submitting a claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 10 days) after the start of the event giving rise thereto. The party receiving a claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the claim through the exchange of information and direct negotiations. All actions taken on a claim shall be stated in writing and submitted to the other party. If efforts to resolve a claim are not successful, the party receiving the claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the claim within 45 days, the claim is deemed denied. If the dispute is not resolved to the satisfaction of the parties, Owner or Contractor shall give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction unless the Owner and Contractor both agree to an alternative dispute resolution process.

11. Suspension of Work and Termination

At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 60 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension

Contractor's failure to perform the Work in accordance with the Contract Documents or other failure to comply with a material term of the Contract Documents will constitute a default by Contractor and justify termination for cause. If Contractor defaults in its obligations, then after giving Contractor and any surety ten days written notice that Owner is considering a declaration that Contractor is in default and termination of the Contract, Owner may proceed to declare Contractor to be in default, and give Contractor and any surety notice that the Contract is terminated; and enforce the rights available to Owner under any applicable performance bond.

Owner may not proceed with termination of the Contract under Paragraph 15.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.

Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.

Upon seven days written notice to Contractor, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for, without duplication of any items:

- A. Completed and acceptable Work executed in accordance with this Agreement prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
- B. Expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by this Agreement in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
- C. Other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.

Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner, and provided Owner does not remedy such suspension or failure within that time, either stop the Work until payment is received, or terminate the Contract and recover payment from the Owner.

12. Compliance with Applicable Laws

Contractor shall in the performance of this Agreement comply with all applicable Federal, State, and local laws, ordinances, orders, rules, and regulations applicable to its performance hereunder, including without limitation, all such legal provisions pertaining to social security, income tax withholding, medical aid, industrial insurance, workers' compensation, and other employee benefit laws. The Contractor and all subcontractors must comply with State laws related to local hire and prevailing wages.

13. Venue/Applicable Law

The venue of any legal action between the parties arising as a result of this Agreement shall be laid in the Third Judicial District of the Superior Court of the State of Alaska and this contract shall be interpreted in accordance with the laws of the State of Alaska.

14. Entire Agreement/Modification

This agreement, including Exhibits A-C, and the Contractor's proposal dated December 2020 constitutes the entire Agreement between the parties with respect to the subject matter hereof, and all prior negotiations and understandings are superseded and replaced by this Agreement and shall be of no further force and effect. No modification of this Agreement shall be of any force or effect unless reduced to writing, signed by both parties and expressly made a part of this Agreement.

In witness whereof, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in duplicate on the respective date indicated below.

CONTRACTOR

CITY OF UNALASKA, ALASKA

By: _____
_____ Its _____

By: _____
Erin Reinders, City Manager

State of Alaska)
) ss.
Third Judicial District)

State of Alaska)
) ss.
Third Judicial District)

The foregoing instrument was acknowledged before me on the ____ day of _____, 2021, by _____, the _____ of ProComm Alaska, LLC, an Alaska Corporation, on behalf of the corporation.

The foregoing instrument was acknowledged before me on the ____ day of _____, 2021, by Erin Reinders, City Manager for the City of Unalaska, a First Class Alaska Municipal Corporation, on behalf of the City of Unalaska.

Notary Public, State of Alaska
My Commission Expires _____

Notary Public, State of Alaska
My Commission Expires _____

EXHIBIT “A” – SCOPE OF SERVICES

The Contractor will work with the City to construct the **Repeater Site and Radio Upgrades Project**.

The Scope of Services for this Agreement includes the following tasks as detailed in Contractor’s May 28, 2021 Comprehensive Communication System Upgrade Proposal, attached as part of this Exhibit “A”:

- Phase I – Site upgrades at the Unalaska Department of Public Safety facility
- Phase II – Site upgrades at the Repeater Site on Haystack and completion of R56 upgrades at Unalaska Department of Public Safety facility.
- Phase III – New Vesta E911 System at Unalaska Department of Public Safety facility.

COMPREHENSIVE COMMUNICATION SYSTEM UPGRADE

May 28, 2021

Proposal for:

**City of Unalaska Department of
Public Safety**



Presented by:

**Gary Peters & Jarek Grzeda
ProComm Alaska**

2100 E 63rd Avenue
Anchorage, AK 99507



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1. EXECUTIVE SUMMARY

The City of Unalaska has contacted ProComm Alaska with a request to develop a transition plan for upgrading communications systems used by Unalaska Department of Public Safety (UDOPS). The upgrade process has been divided into three Phases. This proposal will supersede and replace all previous proposal describing this scope of work.

Phase I – Required site upgrades and site readiness at the DOPS Building, a new Motorola/Avtec radio console system (including two (2) Operator Position configurations, and eight (8) new Motorola APX control station consolettes at the Unalaska Public Safety Building. These Consolettes will control the new Motorola GTR repeaters on the Haystack site.

In Phase I, the existing Motorola MCC5500 radio console will be replaced with new, IP based, Motorola Avtec radio console. The new system will have two (2) Operating Positions (2 OPs), redundant VPGates (servers responsible for managing radio transmissions), redundant LAN switches, and five (5) Outposts (RoIP Interface between radio and the network). Each Avtec Outpost supports operation of two (2) radios so with 5 Outposts, up to 9 radio resources can be managed by the radio console/dispatcher. The 10th radio port on the Outpost will be used as an interface between the NAWAS phone line and the Avtec console. New monitors, audio accessories, and training for dispatchers will be included in our quote.

In addition to the new radio console, seven (7) new APX radios will be installed at the COU Dispatch communications equipment room as replacements for the existing DIU (digital interface units) which are no longer supported. These new radios will be Motorola APX consolettes, VHF, 50-watts of power out, and will be controlled by the Avtec system radio console. The spectrum plan is that these seven radios/control stations will be dedicated to channels: TAC1, TAC2, TAC3, TAC5, Electrical, TONES, and Harbor. In addition to the seven radios described earlier, one (1) more APX consolette radio will be provided for the City/DOPS to use. The function of this 8th radio is yet to be defined.

To support operation of these new radios, the antenna system will have to be modified at the COU Department of Public Safety building. PCA is specifying an eight-port active combiner (control station combiner) to support operation of all 7 radios via a single transmit and a single receive antenna. The installation of the combiner, as well as replacement of existing antennas and coax on the tower will be part of our Scope of Work (SOW) and included in our quote for Phase I.

During Phase I installation PCA will also do some basic grounding of the new system, including antenna tower, wall penetration, bonding equipment rack to the building ground etc. During the Phase I installation work a site walk will be performed to review *in detail* - the site needs to bring all COU radio sites as closely as possible to Motorola's R56 communications site standards for Public Safety.

When Phase I is completed, COU will have a new two (2) Ops of radio console, a new antenna system at the Dispatch location, and up to eight (8) new radios working as control stations. New equipment will be grounded and protected. A report with further grounding requirements will be generated and a change order issued to the COU for Phase II Installation as required.

Phase II – Provide and install six (6) new Motorola GTR8000 public safety grade repeaters at the Haystack radio site. Finishing R56 upgrades in Unalaska Dispatch building and Haystack radio sites. Deployment of a new 48VDC system at Haystack (excluding COU’s deliverable of batteries).

In Phase II of the project the six (6) existing older Motorola Quantar repeaters at Haystack site will be replaced with six (6) new Motorola GTR8000 repeaters. In addition to radio replacement, the existing 24VDC power distribution will be replaced, as the GTR8000 repeaters require a 48VDC source. PCA will provide new chargers, new PDU (power distribution unit), and new related power system wiring. COU will be responsible for providing and installing the batteries. Note: The existing batteries, if in good condition, could be re-used, with an assumption that minimum of four (4) batteries are available to create 48VDC backup system.

It is assumed at this time that GTR8000 radios will be installed in the same rack space as the existing Quantars. The existing RF filtering system will be re-used (Combiner and multi-coupler) but a new antenna system will be deployed. Three (3) existing antennas will be replaced with new ones, lower gain but much sturdier and with better penetration capability for in-town signal distribution. With new antennas, new transmission lines will be installed as well as better cable management and better grounding. If necessary, PCA will modify RF coaxial jumpers to match the existing antenna system with RF ports on the new radios.

In Phase II, PCA will make further upgrades at COU Dispatch, via change order, that may have been identified and authorized per the above referenced (ROF) report of findings.

Phase III – New Vesta E911 system for City of Unalaska.

Phase III of this project will be dedicated to installation of a new Motorola Vesta E911 system. It is assumed that a total of two call taker positions will be installed - One at each radio console position.

The new system will be installed at the COU Dispatch. The 911 system will support NENA Phase I (local, wired phones) and NENA Phase II (wireless phones), ANI/ALI data collection and display. Monitors for both 911 system and mapping will be included in our offer.

It will be COU’s responsibility to arrange with local phone companies/Telco for delivery of four (4) analog CAMA (Call Aliasing and Message Accounting) Trunks to COU Dispatch demarcation point (punch block on the wall in the radio room, or room where Vesta 911 servers will be installed). If at the time of 911 system deployment, Unalaska infrastructure supports (National Emergency Number Association) NENA Phase II operation, two of the available CAMA trunks will be dedicated to receive and display caller data from wireless calls, and two trunks for landline caller information. Otherwise, if only NENA Phase I operation is supported at that time, all 4 trunks will be dedicated (and configured) to support NENA Phase I operation with limited ANI/ALI (Automatic Number Identification/Automatic Location Identification) information provided by the local telephone company. No software/hardware changes to Vesta 911 system will be required to support NENA Phase II, however routers or modems may need to be installed by third party vendors (wireless carriers or their vendors) and minor configuration changes to the VESTA system will likely be required to support NENA Phase 2 wireless location and mapping. ProComm engineers will work with the telephone companies and wireless carriers and database suppliers to interface this wired/wireless caller ID signaling to NENA standards.

COU will also be responsible for obtaining or developing the ANI/ALI database of the landline phone owners/addresses and for managing that data moving forward. COU will also be responsible for selecting and contracting with one of the providers of ANI/ALI information for wireless callers (such as Intrado) for implementation of NENA Phase 2 wireless caller ID and location mapping information.

SIP/VoIP interfaces will be used to connect Admin lines between Vesta E911 and the COU CISCO Call Manager Express system. 10 licenses for 10 simulcast voice conversations are included in our proposal.

2. STATEMENTS OF WORK

PCA presents Statements of Work (SOW) below for each phase of the project to summarize project deliverables and define project responsibilities. It is the intent of PCA that this document be a mutually agreed upon document and reflects the most current understanding of task responsibilities.

The SOW will express the actual work involved for the installation and optimization phase of the project, the installation standards that will be followed, and the responsibilities of both PCA and COU in the completion of the contract. A final SOW must be approved by COU prior to contract execution.

2.1. STATEMENT OF WORK AMENDMENT PROCEDURE

Changes to this document must be submitted by a written request from either COU or PCA and approved by the other party. A Change Request form is included in Appendix A of this document and will be used to identify the Scope of Work of the requested change. PCA will determine whether additional equipment, services, modification to the timeline, and relevant pricing changes are needed in order to implement the Change Request.

Approval for any additional expenditure must be obtained by the COU prior to the commencement of any additional work or ordering of equipment as a result of the Change Request.

COU will officially notify PCA of approval of the Change Request by providing a signed Change Request or a Notice-to-Proceed reflecting the changes.

PCA will proceed with all due diligence to incorporate the changes approved in the Change Request.

3. WARRANTY & LIMITATIONS

Multiple warranties apply to the equipment and services provided in this proposal, In summary they are the original Manufacturers' warranty on equipment and PCA's warranty on the installation of the system.

Equipment Warranty

ProComm Alaska shall make available to City of Unalaska all product warranties made by the manufacturer(s) of the software, products, or services utilized by ProComm Alaska in connection

with goods and services provided hereunder, to the extent transferable and without recourse. It shall be the sole discretion of the manufacturer under the terms of their warranty, to repair or replace equipment found to be defective and PCA provides no additional warranty for equipment beyond those provided by the OEM. OEM warranties are for a period of one year from the date the equipment is received.

To support this warranty, ProComm Alaska will provide field services to support the factory warranty. Field service will cover the key sub-systems from the primary vendors listed in this document.

Field support under a service agreement includes:

- On call service 8 to 5 with 24x7 available
- First level troubleshooting
- Factory technical support as needed
- Repairing or configuring the equipment on site if possible
- Replacement with spares if available
 - Reconfiguring, testing and placing equipment back in service
- If necessary, removing equipment and processing return to factory for service
 - Return repaired equipment to system
 - Reconfigure, test and place back in service
- Noting service conditions in customer database
- Updating customer on steps and status in the process
- Priority scheduling of all service and parts handling

Services beyond this date, including application of patches, trouble shooting, etc., requires a supplemental Managed Services Agreement (MSA). We have proposed years 2-5 pricing for these services in the proposal. All services provided under MSA contracts are provided as priority services 24/7/365 with a maximum 2 hour initiated response time.

Cost of field service to assist the End User with in-warranty support of OEM product shall be borne by the End User. These costs are included in this proposal for a period of one year. Such services may include troubleshooting, repair if possible, remove and return product to the OEM, re-install, configure and optimize, update documentation and return the system to normal usage.

Installation Warranty

ProComm Alaska shall warranty that the installation is free from defects in parts and labor for a period of 3 years from the date of installation provided such defects are communicated in writing within that period.

Limitations

Except as expressly set forth above or in a contract signed by an officer of ProComm Alaska LLC, ProComm Alaska makes no warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose, in connection with materials or work order and the transactions contemplated hereby.

ProComm Alaska is not responsible for any ancillary product or service applied to the system not supplied by ProComm Alaska.

ProComm Alaska is not responsible for damage due to weather, accident, vandalism, riot, or natural phenomena.

ProComm Alaska has no authority to make warranty policy on behalf of the OEM and bears no liability for performance and specifications stated by the OEM.

In no event shall ProComm Alaska be liable to COU for any indirect, special or consequential damage or lost profits arising out of or related to materials or work or the performance of breach hereof. Even if ProComm has been advised of the possibility thereof, ProComm's liability to COU hereunder, if any, shall in no event exceed the total of the charges paid to ProComm hereunder by the City of Unalaska.

OEM warranties may be void if the system is altered, neglected, or misused by End User or any third party.

4. PHASE I: UDOPS UPGRADES, AVTEC CONSOLE, & NETCLOCK

The objective of this proposal is to provide a quote to the City of Unalaska for the hardware and services required to prepare Unalaska Department of Public Safety (UDOPS) building for the communications system upgrades.

PCA will perform required upgrades at UDOPS building (grounding, cable management), will install new antenna system (an 8 port combiner with two antennas and two separate antennas for an additional two standalone radios). PCA will install up to eight (8) new control stations (Motorola APX consolettes purchased directly by COU from Motorola – under Q4001). This quote is for installation services and related hardware). Deploying the new antenna system and control stations will allow the elimination of DIU equipment at UDOPS which is no longer supported by the manufacturer. The new APX control stations will be capable of AES and ADP encryption (3 radios) while working in digital ASTRO/P25 mode (all 8 radios). Existing microwave link between Haystack repeater site and UDOPS building could be removed after transition (or used for some other purpose). PCA will also prepare Dispatch room and backroom locations for the proposed Avtec radio console equipment as part of the Customer responsibility described in the Avtec proposal.

A new NetClock (ethernet time server) will be deployed at UDOPS (with one GPS external antenna). Up to 4 disparate systems can be serviced by the single NetClock using dedicated LAN ports four each system. An accurate time server is required for proper inter-operation between radio console, Vesta 911 system and the voice Recorder.

4.1. CUSTOMER OBJECTIVES

It is understood that Unalaska DOPS has several specific objectives in mind with this phase of the project:

- Install the Avtec console system positions to integrate with radios and the telephone system

(Headset integration)

- Interface into the radio system via direct IP connections using Avtec Scout OUTPOST connecting to on-site and remote base/control stations (up to 9 radio resources)
- The Avtec console will be able to support (Via GUI) operation of one (1) NAWAS private phone line/circuit (in parallel to existing NAWAS terminal).
- Install the system with minimal disruption to daily operations.
- Train the Trainer for dispatch personnel for console features and use.

4.2. SYSTEM DESCRIPTION

Recommended as the console solution is the Motorola Avtec brand Scout Dispatch Console. Avtec is a 30-year old U.S. company that specializes in cost effective dispatch console solutions for rugged, reliable applications in the public safety, utility and transportation industries. Avtec is a certified partner with Motorola, meaning the Scout console platform has been formally integrated by the engineering teams of the two companies to provide functional operation of the dispatch console with the Motorola GTR 8000 repeaters and control stations for operating in the mixed mode analog/digital radio platform.

Scout consoles offer a true IP platform that is easy to customize and grow as requirements change or expand. Redundancy is a key element of the architecture for reliable performance.

Scout is a true VoIP console system; all components may be distributed over a LAN/WAN infrastructure using standard Ethernet. There is no backroom TDM switch.

- Users said they want a console that does everything a traditional console does yet operates on a network. Scout delivers this functionality today, and through active product development and customer feedback, new enhancements are continually incorporated into the feature set.
- Scout is Avtec's 4th Generation console product and was designed for a 10+ year lifecycle in mission-critical environments. Scout provides a dedicated media workstation with its own Ethernet connection and rugged peripherals. This allows customers the option to operate on standard PCs and benefit from reduced life-cycle support costs.
- Radio, Telephony, and I/O integration are supported via VPGate; multiple technologies such as MPT1327, MOTOTRBO, Public Safety P25 (DFSI and CSSI), iDEN, NXDN, and SIP can connect simultaneously. Furthermore, the Scout VPGate is N+1 redundant so there are no single points of failure to your critical communications assets. Non-VoIP capable radios can be connected with Avtec's Outpost, which allows advanced control of many radios through a serial port.
- Scout Benefits:
 - Scales from 1 to 100+ console positions
 - Dedicated Media Workstation for Audio; no PC Sound cards
 - Built-in N+1 Redundancy
 - Supports Disaster Recovery
 - Customizable Graphical User interfaces
 - Integrates Web and XML technologies
 - Scout Project Manager supports live system updates

- Integrates with third-party CAD
- Integrates with third party logging recorder

4.3. SOLUTION

Two Positions

For the Unalaska DOPS requirements, we are proposing a Scout console in two positions composed of the following key components:

- Tier 1 Scout Plus hardware audio package
- Media workstations to be provided by Avtec
- Two (2) 21.5” LED touch screen for PC console – 16x9 format – full HD
- Dual speakers
- PTT desk microphone (one per position)
- Two handsets / headset jack boxes
- Redundant VP Gate software license
- Radio controller for VoIP operation
- One VPGate Software License – Level 0, Supporting 24 Maximum Endpoints
- Two (2) VPGate dedicated hardware/software (Rack mountable servers)
- Five (5) Outpost Radio Controller (with power supplies)
- Rack mount equipment

Not Included

- Backup batteries are not included in this proposal.
- Voice Logging Recorder is not included in this proposal.

Avtec software and hardware support/maintenance for the first year of installation are included. Additional years of factory support are available (quoted as Recommended Options.)

4.4. SYSTEM DRAWINGS

The following drawing is a pictorial representation of a proposed Avtec Scout architecture.

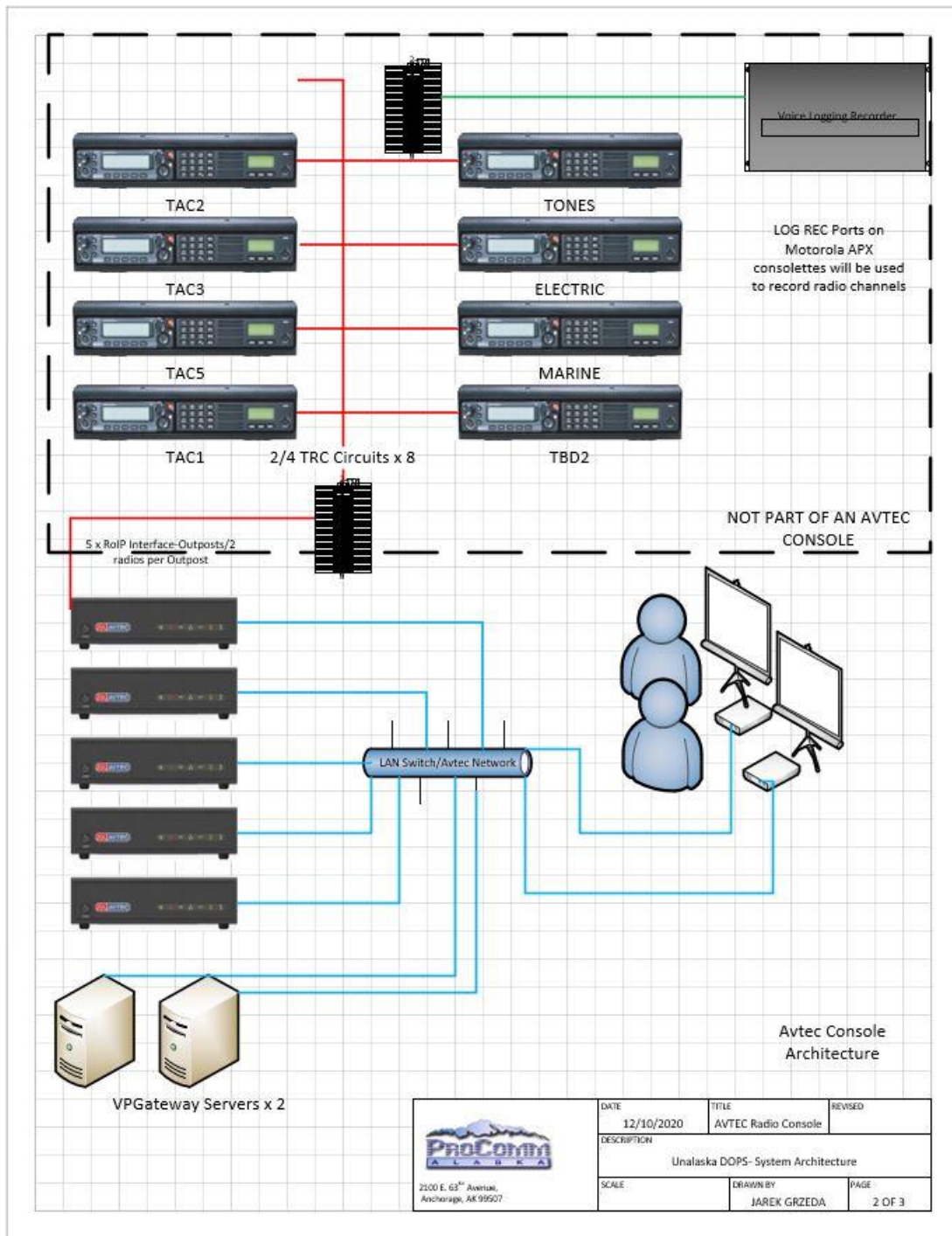
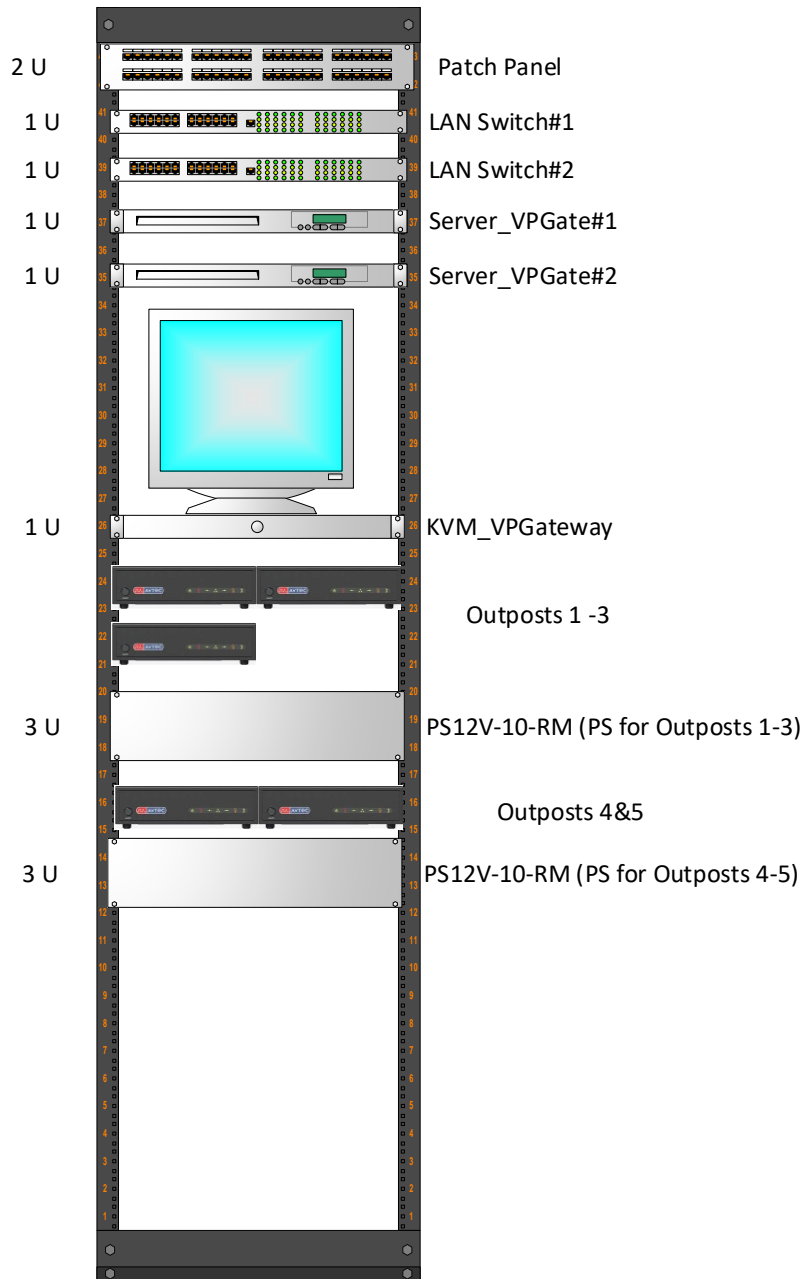


Figure 1: Avtec Dispatch Console System




 2100 E. 63 rd Avenue, Anchorage, AK 99507	DATE	TITLE	REVISED
	12/10/2020	AVTEC Radio Console	
	DESCRIPTION		
Unalaska DOPS- example of a rack layout with Avtec backroom equipment			
SCALE	DRAWN BY	PAGE	
	JAREK GRZEDA	3 OF 3	

Figure 2: Example of Rack Lavout and Connectivity

4.5. PCA RESPONSIBILITIES

SITE PREP / SITE READINESS

- PCA will provide single point of contact for the duration of the project.
- PCA will purchase and deliver equipment necessary to deploy new antenna system for up to nine (9) control stations.
- PCA will purchase and deliver to Unalaska two (2) new 19 inch/ 4-post racks to be used for installation of the radio equipment (consolettes), NetClock equipment and backroom equipment for Avtec radio console.
- PCA will provide and deliver a new NetClock server (with 4 available LAN ports it can be used to synchronize up to 4 critical systems with a reliable time reference)
- PCA will sub-contract tower crew for work related to antenna/coax/cable management and installation at UDOPS.
- PCA team of two (2) technicians will travel to Unalaska to perform on site services as described in this proposal.
- PCA working with the tower crew, will deploy new antenna system consisting of one (1) Receive antenna on the top of the tower and three (3) Transmit/mixed operation antennas on the same tower – 15 feet below the receive antenna (4 total new antennas will be installed with new coax/connectors).
- New antenna system, as well as other equipment installed by PCA at UDOPS, will be installed according to Motorola R56 standards for PSAP and communication sites (in regards of proper grounding, lightning protection, cable management etc.).
- PCA will install up to eight (8) new control stations (Motorola APX consolette - radios are not included in this proposal) in provided rack.
- All RF cables installed between the antenna combiner system and radios and combiner and antennas will be made by on site by PCA team. All of them will be tested and quality verified before adding to the system.
- New net clock time server, Orolia Model 9483 with outside GPS antenna, will be installed at the same time.
- PCA will prepare locations at UDOPS where new equipment will be installed (backroom and Dispatch) as a part of “site readiness” for Avtec radio console installation.
- Demarcation points, in form of Model 66 punch blocks, will be installed in the backroom to allow for connection of control circuits between Avtec Outpost interface and APX radios as well as between APX radios LOG REC port and existing Voice Logging recorder for audio recording.

AVTEC CONSOLES

- Assign a project manager and project team
- Conduct kick-off meeting with all project participants
- Complete statement of work and schedule
- Complete final design and get Unalaska DOPS approval
- Prepare system programming guide
- Factory staging and local configuration
- Receive and prepare for installation from our Anchorage based shop.

- All installation to be Monday – Friday, 8 am to 5 pm unless otherwise scheduled
- Install Avtec Scout to best possible Motorola R56 grounding standards
- IP interface the console radio system to on-site base stations
- Final system optimization and cutover plan without down time
- Train users on a train-the-trainer program and go-live
- Conduct acceptance testing and complete acceptance certificate
- Provide one set of as-built documentation and equipment manuals
- Remove debris and leave facilities in clean condition
- Start one-year warranty period

PCA PROJECT MANAGEMENT TASKS

- Kick off meeting and on-site status checks of progress
- Status and planning meetings throughout project cycle
- Develop and updated complete project timeline
- Facilitate all aspects of implementation
- Manage project statement of work and change orders
- Monitor tracking and receipt of all material
- Invoicing and administration
- Facilitate acceptance test plan completion and documentation

4.6. COU RESPONSIBILITIES

- Single point of contact for coordination
- Provide State Department of Labor determination if Little Davis Bacon applies to contract prior to issuing Purchase Order. Current proposal pricing is based on assumption that Title 36 (Little Davis Bacon) applies for this project and all on site work was calculated with DB hourly rate.
- Any needed permits or licensing
- The changes to the communications systems affected by this proposal may require changes to the underlying FCC License. The FCC holds the Licensee exclusively responsible for compliance at all times. Cost of modifications to existing FCC licenses, and related to deployment of control stations system at UDOPS, is included in this proposal.
- Timely, organized access to all facilities to maintain project schedule
- UDOPS will provide access to locations where new equipment will be installed.
- UDOPS will be responsible for final connection (and configuration if required) between demarcation point on Block 66 and existing Recorder to record audio transmission from APX consolettes.
- UDOPS will be responsible for any upgrades to the existing site in regards to: structural modification of UDPOS building (floor, roof, wall) as needed, and high voltage electrical work, work related to UPS systems or backup generator.
- It will be responsibility of UDOPS to obtain, if required, any permits or permissions, for modifications to be done at UDOPS as a part of the system upgrade.

- UDOPS will be responsible for purchasing, directly from Motorola, eight (8) APX consolettes and make them available to PCA for staging and installation.
- UDOPS will be responsible for providing any necessary power, (including UPS/backup generators), network connectivity between backroom and dispatch (re-use existing network cabling for MCC5500 console), space for minimum of two (2) 19” racks.
- Participation of UDOPS personnel will be required during code plug development for new control station as well as AVTEC radio console GUI (Graphical User Interface for Dispatcher)

4.7. ACCEPTANCE TEST PLAN (ATP)

A formal Acceptance Test Plan will be completed upon award. A checklist of items to test will be prepared and a representative from the customer and ProComm Alaska will conduct the test together. Upon completion of the ATP, the system will be considered accepted and a project completion certificate will be signed.

Unless otherwise negotiated, the proposed ATP will consist of the following:

- Complete Avtec supplied test checklist
- Confirm connectivity with each radio channel

4.8. TRAINING

Training will provide for the best overall application of the system and its benefits. Upon completion of installation and at time of cutover, ProComm Alaska on-site field technicians will conduct a training session with Unalaska DOPS Dispatch and other necessary personnel using the installed system. Proposed training will consist of one day onsite working around shift work schedules. A schedule will be prepared for multiple sessions of up to one hour each for small groups of dispatchers. The course content will present the Scout console features, functions, and basic operations.

4.9. EQUIPMENT LIST & SERVICES

The following schedule represents materials and services included in this proposal. Any variance will be handled with a project change order.

AVTEC - Console (Operator) Position Hardware/Software

Qty	Model Number	Description
4.00	SFW-SCOUT-EX-T1-SK	Scout EX Console - Tier 1 includes a license for a Scout Enterprise Console with Software Audio Package. Includes IRR. Software Key version.
4.00	ACC-CPU-DT-WIN10	PC Small form factor, dual NICs and a solid state hard drive for Console Position or "Plus" Console Packages, MS Windows 10 Enterprise 64 bit OS. Used in a Scout System when a Standard Desktop computer is needed. For use with Scout 4.3 and above.
4.00	ACCUSB-FSW-WIDE	USB Wide Treadle PTT Footswitch Accessory, Software Media Workstation
8.00	ACCUSB-HJB-NENA	Avtec USB Headset/handset jack box (single jack), Integrates NENA phone at the operators position with Scout. Requires Scout version 4.9 or later running Software Media Workstation.
4.00	ACCUSB-HUB10	10 Port USB Hub, USB3.0
4.00	ACCUSB-MIC	Avtec USB PTT Desk Microphone, Scout Software Media Workstation
4.00	ACC-HED-6W-NC	Complete 6W Headset, Single Ear, Noise Canceling Microphone with plug-prong base.
4.00	ACCUSB-SPK-2	Avtec USB Dual Speaker Kit, Scout Software Media Workstation
2.00	ACC-CPU-DT-WIN10	PC Small form factor, dual NICs and a solid state hard drive for Console Position or "Plus" Console Packages, MS Windows 10 Enterprise 64 bit OS. Used in a Scout System when a Standard Desktop computer is needed. For use with Scout 4.3 and above.

AVTEC - Racking Equipment

Qty	Model Number	Description
7.00	OUTPOSTPLUS-PS-NA	OUTPOSTPLUS POWER SUPPLY, NORTH AMERICA
4.00	OUTPOSTPLUS-SHELF	OUTPOSTPLUS RACKMOUNT SHELF (HOLDS 2 UNITS)

AVTEC - Gateways and Endpoint Hardware/Software

Qty	Model Number	Description
1.00	SFW-VPG-L0-SK	Redundant VPGate Software License for a maximum of 24 endpoints; up to 12 may be "B" Licenses. Software license version.
2.00	ACC-CPU-STD-2019	1 Rack Unit (1RU) Server Solid State hard drive, Windows 2019 Server OS, TPM 2.0. Requires additional package for monitor, keyboard, etc. (DISP-XXXX)
7.00	OUTPOSTPLUS-2R	OUTPOSTPLUS RADIO GATEWAY, VOIP, 2 PORT, POE, POWER SUPPLY NOT INCLUDED.
1.00	OUTPOSTPLUS-CFG	OUTPOSTPLUS CONFIGURATION TOOL. 1 REQUIRED PER SITE.
1.00	ACC-NETWK-24P-SFP4	24 Port Gigabit Switch with 4 SFP Ports

AVTEC – Recommended Spare Equipment

Qty	Model Number	Description
1.00	ACCUSB-FSW-SING	USB PTT Footswitch Accessory, Software Media Workstation
1.00	ACCUSB-HJB-NENA	Avtec USB Headset/handset jack box (single jack), Integrates NENA phone at the operators position with Scout. Requires Scout version 4.9 or later running Software Media Workstation.
1.00	ACCUSB-SPK-1	Avtec USB Single Speaker Kit, Scout Software Media Workstation
1.00	OUTPOSTPLUS-2R	OUTPOSTPLUS RADIO GATEWAY, VOIP, 2 PORT, POE, POWER SUPPLY NOT INCLUDED.
1.00	ACC-HED-6W-NC	Complete 6W Headset, Single Ear, Noise Canceling Microphone with plug-prong base.
1.00	OUTPOSTPLUS-PS-NA	OUTPOSTPLUS POWER SUPPLY, NORTH AMERICA
1.00	ACC-NETWK-24P-SFP4	24 Port Gigabit Switch with 4 SFP Ports

AVTEC – Services Provided During the Warranty Period (12-month warranty is included)

Qty	Model Number	Description
1.00	SCOUTCARE- T1- WARRANTY	ScoutCare Tier 1 services provided during the one-year warranty period only. Includes Software Maintenance, Remote Support, and Training.
1.00	SCOUTCARE HW - WARRANTY	Hardware repair services provided during the one-year warranty period.

Avtec products include a 12-month warranty. The warranty covers hardware repairs, software defect fixes, and includes the ScoutCare program of Software Maintenance, Business hours remote support, 24x7 emergency support, and Technical Training. After the warranty period, Customer may renew ScoutCare and as an additional add-on ScoutCare HW

4.10. PROJECT ACCEPTANCE

The system shall be accepted upon completion of a successful performance period.

A performance period of 7 calendar days after the installation shall be used to determine acceptable operation. During this period the equipment shall be placed in service and monitored by the designated evaluators of the Unalaska DOPS and ProComm Alaska. All operating modes of the system can be tested and all documented faults can be corrected promptly. The system equipment shall be accepted after beneficial operation during the test period.

Successful operation is defined as the absence of any major failure of equipment or function that would substantially disable the equipment.

Minor failures that would normally be encountered during the implementation of a new system shall be noted for correction but shall not be considered against this test period.

4.11. PHASE I QUALIFICATIONS AND ASSUMPTIONS

- It is assumed that all three parts of the Phase I upgrade (8 radio consolettes with antenna system, Avtec radio console deployment and site readiness) will be completed during a single trip to Unalaska.
- It is assumed that existing tower(s) at UDOPS are in good condition, safe to climb and work on. No upgrades or tower repair is included in our quote.
- It is assumed that all data drops (Cat5/6e cables) between backroom and dispatch room are available. Two runs of cat5e are required for two OPS. (we can re-use existing cat5/6e cables when migrating from MCC5500 radio console to Avtec console).
- It is assumed that building ground (in form #2 GND conductor or metal beam) is available for the backroom equipment and near building penetration for the coax from the tower.
- It is assumed that all existing VHF antennas on UDOPS tower will be removed and up to four (4) new antennas will be installed as part of the new antenna system. Existing coax will be replaced as well with new ½” LDF4-50 lines for outside coax runs.
- It is assumed that new Motorola APX consolettes (8 radios) will be purchased by UDOPS directly from Motorola, in configuration as required, and available to PCA personnel during Phase I trip to Unalaska.

4.12. PHASE PRICING DETAIL

Hardware, Logistics and Labor Cost.

Item	Description	Price
1	Engineering Services and Project Management (all Projects related to Phase I upgrades)	\$7,955.00
2	Hardware related to Phase I (site readiness) – UDOPS Site Upgrade	\$43,382.00
3	Hardware related to NetClock/Time Server	\$11,454.00

4	Hardware, Software and Services related to AVTEC Radio Console (Under NASPO contract)	\$89,681.00
5	Labor: System staging in Anchorage, Travel Time to Unalaska at Regular rate	\$3,605.00
6	Labor: On site installation at DB rates	\$8,950.00
7	Tower Work Services	\$18,550.00
8	Logistics Expenses: Travel, Lodging, Car Rental, Shipping Cost and Per-diem for 2 technicians	\$13,957.00
9	FCC License Application, License Modification (Estimated cost)	\$2,500.00
Project Cost (Hardware, Labor & Logistics)		\$200,034.00
10	Direct Purchase of Eight (8) Motorola APX consolettes from Motorola Solution Inc. (Under NASPO contract) See 4.14 for explanation	\$56,366.87
8	24/7/365 On Site and Remote Support by PCA (AVTEC radio console with 2 OPs, 8 each APX consolettes, NetClock and RF combiner) -Year 1	\$24,033.00

The Total cost of Phase I upgrades: **\$280,433.87**

An Option for multi-year, comprehensive MSA (Managed Service Agreement) between City of Unalaska and ProComm Alaska is presented in ADDENDUM B as an option to only year 1 of support

4.13. MOTOROLA APX AND GTR QUOTES

Imbedded in this proposal is equipment only available to COU through a purchase directly from Motorola. This equipment will require an additional and separate purchase order made out to Motorola Solutions Inc. The equipment so purchased will then be incorporated into the project by PCA in its part of the project implementation. The Motorola proposal is included in the Appendix at the end of this document.

5. PHASE II - HAYSTACK SITE UPGRADE AND REPEATERS

5.1. PCA PHASE II RESPONSIBILITIES

- PCA will provide a single point of contact for the duration of the project.
- PCA will purchase and deliver equipment necessary to deploy the new antenna system, outside cable management and site grounding.
- PCA will purchase and deliver equipment related to improvement of existing inside grounding system, inside cable management and cable penetration.
- PCA will purchase and deliver to Unalaska a power system with rectifiers to support operation of 48VDC equipment (GTR8000 radios) at the Haystack Site (Batteries are NOT included in our quote and are responsibility of COU to provide) as specified.

- PCA, working with the tower crew, will replace three (3) antennas used currently by UDOPS radio system on Haystack (one Receive antenna and two each Transmit antennas).
- New RF cables and new cable management will be installed outside and inside the building.
- New grounding system will be built inside the building with MGB (Master Ground Bar) for binding of all equipment inside to a single point. (PCA will only bond new equipment and RF filtering system to the MGB (Master Ground Buss). It is expected the other tenants and owners of other equipment located in the building will use that opportunity to protect and ground their equipment as well.
- PCA will convert the existing 24VDC system to new 48VDC using existing batteries (or bank of new batteries provided by COU) and support the City electrician in connecting the Power System to the building AC power system.
- New GTR8000 repeaters (provided by COU under separate proposal) will be installed in place of existing six (6) Quantar radios. New radios will be powered from 48VDC system, bonded to building ground and connected to antenna system via RF combiner/multi-coupler. New RF and grounding cables will be made as needed.
- Old Quantar radios and 24VDC system will be removed from equipment racks and left inside the building for COU to collect and dispose of accordingly to the City rules and regulations for asset disposal.
- All RF cables between the combiner and radios and the combiner and antennas will be made on site by the PCA team. All of them will be tested and quality verified before adding to the system.

5.2. COU PHASE II RESPONSIBILITIES

- Provide State Department of Labor determination if Little Davis Bacon applies to contract prior to issuing Purchase Order. Current proposal pricing is based on an assumption that DB rates do apply for on-site work and the labor cost was calculated accordingly.
- The changes to the communications system affected by this proposal may require changes to the underlying FCC License. The FCC holds the Licensee exclusively responsible for compliance at all times. Cost of modification of the existing license is included in Phase I of our proposal.
- UDOPS will provide access to locations where new equipment will be installed.
- UDOPS will be responsible for the required high voltage electrical work as required at Haystack site during system installation.
- UDOPS will purchase directly and provide to the PCA team a minimum six (6) of Motorola GTR8000 repeaters as a part of radio replacement process at the Haystack. All radios will be in working condition and in configuration as needed/required by UDOPS.
- UDOPS will be responsible for providing a minimum of 4 (preferably 8) batteries to be used to deploy 48VDC system at the Haystack site to power all six (6) new Motorola GTR8000 radios.

- It will be responsibility of UDOPS to obtain, if required, any permits or permissions, for modifications to be done at UDOPS as a part of the system upgrade ahead of this project.
- During down time when one or more antennas on the tower is not available for operation, UDOPS will be responsible for development of a backup plan for radio communications without repeaters. (At the time when Phase II will be executed, in Phase I APX consolettes/control stations will be installed at UDOPS building which could be used in direct communication between dispatchers and subscribers). PCA will work with UDOPS on the planned migration.

5.3. PHASE II QUALIFICATIONS AND ASSUMPTIONS

- It is assumed that Phase II of the project (as described in this proposal – 6 each new GTR8000 repeaters at Haystack will replace existing Quantars and Haystack radio site upgrade, including tower work) will be completed during a single trip to Unalaska.
- It is assumed that the existing tower at Haystack is in good condition, safe to climb and work on. No upgrades or tower repair is included in our quote.
- It is assumed that three (3) antennas, related to operation of DOPS radio system, will be replaced and new coax cable installed. No other equipment and lines on the tower will be modified.
- It is assumed that the building ground (in the form of #2 braided copper cable GND conductor or metal beam) is available at the site, near building penetration for the coax from the tower.
- It is assumed that existing combiner/multi-coupler will be used as a part RF filtering system for UDOPS six new GTR8000 radios.
- All existing RF line/coax, outside and inside, will be replaced. New cable managing system will be deployed as well as improved grounding and lightning protection.
- It is assumed that the existing 24 VDC power plant currently in place is used only to power existing Quantar repeaters. It is responsibility of COU to identify whether any other equipment is currently using the 24VDC plant, so appropriate engineering and parts can be provided to maintain said equipment.

5.4. PHASE II: PRICING SUMMARY

Hardware, Logistics and Labor Cost.

Item	Description	Price
1	Engineering Services and Project Management	\$2,975.00
2	Hardware related to Phase II (site readiness) – UDOPS Site Upgrade	\$20,452.00
4	Labor: System staging in Anchorage, Travel Time to Unalaska (At Regular Hourly Rate)	\$2,950.00
5	Labor: On-Site Labor cost at DB Hourly Rate (RT and OT)	\$13,961.00
6	Tower Work Services	\$13,750.00
7	Logistics Expenses: Travel, Lodging, Car Rental, Shipping Cost and Per-diem for 2 technicians	\$11,424.00
8	FCC License Application (Included in Phase I cost)	\$0.00

Project Cost (Hardware, Labor & Logistics)		\$65,512.00
9	24/7/365 On Site and Remote Support by PCA (AVTEC radio console with 2 OPs, 8 each APX consolettes, NetClock and RF combiner) -Year 1 (included in Phase I)	\$0.00
10	Direct purchase of six (6) GTR8000 repeaters from Motorola Solution under NASPO contract (See Q4031 for details)	\$92,880.00

Total cost of Phase II : \$158,392.00

6. PHASE III: VESTA E 911

6.1. INTRODUCTION

ProComm Alaska (PCA or ProComm) is proud to present to the City of Unalaska DOPS a new next generation 911 system after our 20 year relationship: VESTA 911 call handling solution for emergency calls. VESTA Solutions (previously Plant Equipment, Cassidian Communications, and Airbus Communications) is now a part of the Motorola Solutions family and continues to design its industry leading Emergency 9-1-1 call handling platform from the ground up to specifically accommodate future emergency call handling formats. VESTA® is that Next Generation 9-1-1 (NG9-1-1) platform. Already selected by over 1,500 agencies, the VESTA solution was designed to handle IP communications including wireline, wireless, VoIP, *TDD/TTY*, and SMS/Text messaging to 911. VESTA solutions will continue to evolve and accept access technologies like MMS and video, while maintaining our reputation for reliability and ease of use.

Today, the VESTA solution is the industry standard comprehensive NG9-1-1 solution. It offers PSAP's increased product features, operational efficiencies, and reliability along with stable, centralized call handling for individual or multiple PSAP locations.

The VESTA solution is designed to meet growing community needs and emerging 9-1-1 technologies. The City of Unalaska is assured the solutions proposed herein will comply with and meet both the E9-1-1 requirements of today and the NG9-1-1 requirements of tomorrow. By selecting ProComm Alaska/VESTA/Motorola Solutions, Unalaska DOPS can be confident they are partnering with the leading provider of Public Safety 9-1-1 solutions and selecting the highest possible level of service to its visitors, citizens, and public safety professionals within their region.

6.2. SOLUTION DESCRIPTION

BACKGROUND

Unalaska DOPS/UPD is a Primary PSAP on Unalaska Island and currently does not have a NENA compliant 911 system. 911 calls are delivered to the PSAP via analog trunks with only caller ID displayed and without any information related to call location origination or information regarding phone owners (ANI/ALI information).

SOLUTION

ProComm Alaska is proud to present the most current version of VESTA 9-1-1 Release 7.6 (or the most current version based on shipment time) call handling solution to continue to meet the needs of City of Unalaska.

This new VESTA 9-1-1 system will come in Single Site configuration with (2) two permanent OP positions located in Unalaska DOPS building AND one (1) CommandPOST Laptop (to be deployed in Emergency situations at any location with remote access to Vesta 911 backroom equipment/servers).

Recommended training for Call Takers/Dispatchers and system Administrators is included in our proposal. If requested by the City, the training, class type and quantity could be modified. It is assumed that all the training will be performed on site and after the system has been installed, tested and operation verified. See Section 7 for a list of training/classes included in our quote.

6.3. PRODUCT DESCRIPTION

VESTA 9-1-1

The VESTA 9-1-1 call handling solution is a mission-critical call management and response solution that is a NENA compliant, IETF standards-based, IP-centric implementation. In essence, the VESTA 9-1-1 call handling solution provides:

- A 9-1-1 ANI/ALI controller providing voice management and data (ALI) retrieval.
- Supports all standard telephony interfaces to simplify integration into existing telephony networks.
- Engineered to ensure that there is essentially no single point of failure, i.e. most hardware is duplicated within the system to ensure redundancy.

Below is a description of the *general* hardware components that make up a VESTA 9-1-1 system. For specific quantities and options, please refer to Section 6, Equipment List.

- Two servers running Media Distribution Services (MDS)
- Two servers running Data Distribution Services (DDS)
- Two FXS (Foreign eXchange Subscriber) gateways
- Two FXO (Foreign eXchange Office) gateways
- Two or more managed Ethernet switches
- Two firewall security appliances with VPN capability
- One alarm panel (optional)
- One master clock that supports NTP v3 (Not included)
- IP Administrative telephones (optional)

VESTA 9-1-1 workstations to manage and process incoming mission critical calls.

Supported interfaces include:

- Analog 9-1-1 CAMA (wireline and wireless) trunks used for incoming emergency calls
- Administrative lines - Centrex, CUD, POTS, SIP/VoIP

- Feature Group D (FGD)
- Ring-down lines - wet (battery provided by CO) and dry (battery seen by the CO)
- Digital interfaces - T1 and PRI
- ALI to identify caller information
- CAD Interface
- VoIP interface using NENA i3 or Intrado RFAI protocol

SERVERS

Media Distribution Services (MDS)

The VESTA 9-1-1 MDS are the software-based call-processing components of the VESTA 9-1-1 solution. The software extends telephony features and functions to packet telephony network devices such as VESTA 9-1-1 Workstations and IP phones. MDS servers provide the following feature/functionality:

- Support for 9-1-1 and Admin queues
- Advanced Call Distribution (ACD) schemes (Longest idle, Ring all, Circular, and Linear)
- Conferencing, transfer, and call overflow capabilities
- Administrative phone features and services
- Auto attendant features
- Voice Mail

MDS servers are always implemented in pairs and operate in an Active/Standby mode.

Data Distribution Services (DDS)

The VESTA 9-1-1 DDS provides advanced 9-1-1 call data handling and system monitoring services. DDS servers provide the following feature/functionality:

- Retrieve and extract ALI from ALI databases, perform ALI re-bids
- Interfaces to CAD (Computer Aided Dispatch) systems
- Manages the transfer of call details to remote agencies
- System activity events and logs for tracking, alarming and historical reporting
- Management of overall system resources
- A client applications software distribution mechanism for VESTA 9-1-1 workstations, VESTA™ Analytics MIS solution, and Activity View management application
- Real-time CDR (Call Detail Record) printing

DDS servers are always implemented in pairs and operate in an Active/Standby mode.

Beginning with VESTA 9-1-1 solution Release 6 (R6) Advanced Services Nodes (ASN's) may be equipped to extend the functionality of the VESTA 9-1-1 system. These are typically deployed as a set of three virtual machines, which may be hosted on the System Hypervisor servers or on a separate pair of Hypervisor servers. For VESTA 9-1-1 R6, the ASN's provide the following functionality:

- Support direct-connect capability for delivery of SMS/text calls utilizing MSRP protocol.
- Provide additional tools for training purposes. This includes simulator for:
 - Generating SMS/text calls
 - Generating simulated voice calls

- Provide additional tools for diagnostic and configuration of the ASN's.
- ASN's are always implemented in pairs and operate in an Active/Active mode.

Virtualized Servers

Beginning with the VESTA 9-1-1 solution Release 2 (R4.2), the MDS, DDS and other peripheral servers may be implemented as virtual machines (VM's) on one or more physical servers. This approach reduces the amount of back-room equipment, lowers power consumption and reduces thermal loading in the equipment room. VM's also provide greater flexibility for future software upgrades, since the operating system and client software are now independent of the server hardware.

Virtual servers are normally equipped with:

- Six-core Xenon CPU's (minimum)
- 12 GB of RAM (minimum)
- Multiple disk drives in a minimum RAID 5 configuration
- Multiple 10/100/1000 NIC's
- Dual power supplies

GATEWAYS

The VESTA 9-1-1 solution supports various gateways to interface to traditional (non-IP) telephone systems. Gateways convert non-VoIP circuits to standard, SIP-based VoIP.

Foreign Exchange Subscriber (FXS)

FXS gateways support the following interfaces:

- 2-wire CAMA.9-1-1 trunks
- "Dry" ring-down circuits
- Analog stations
- FAX machines/modems
- Web-based Graphical User Interface (GUI) for configuration

Foreign Exchange Office (FXO)

FXO gateways provide the following functionality and interfaces:

- Loop-start CO lines
- Ground-start CO lines (M1K FXO GS modules only)
- "Wet" ring-down circuits
- Direct Inward Dialing (DID) circuits to specific endpoints (phone sets)
- Web-based GUI for configuration

MEDIANT 1000 (M1K)

Mediant 1000 gateway chassis provides six expansion slots which can be equipped with any combination of FXO, FXS and/or T1/PRI interface modules. The Mediant 1000 chassis is also equipped with redundant power supplies and dual network interfaces (NICs).

The following features and circuit types are supported on these gateways:

- Interface to 2-wire analog CAMA 9-1-1 trunks

- Interface to 2-wire loop start administrative lines
- Interface to 2-wire ground-start administrative lines (requires GS FXO module)
- Interface to either dry- or wet ring-down lines
- Interface to standard T1/E1 circuits*;
- Interface to standard ISDN-PRI circuits*
- Web-based GUI for configuration and management

***A maximum of four digital circuits may be equipped per MIK chassis (pre R6.0) or upto six (R6.x and later, with firmware upgrade).

MEDIANT 800 SBC

The AudioCodes Mediant 800 enterprise session border controller (E-SBC) and media gateway offers a complete connectivity solution for small-to-medium sized enterprises. Supporting up to 124 voice channels in a 1U platform, the Mediant 800 provides versatile connectivity between TDM and VoIP networks.

The Mediant 800 connects IP-PBXs to any SIP trunking service providers, scaling to 400 concurrent sessions. Proposed here system will support up to 10 concurrent sessions. This gateway offers superior performance in connecting and SIP to SIP environment, legacy TDM-based PBX to IP networks, and IP-PBX to the PSTN.

ESINET INTERFACE MODULE CEIM

The ESINet Interface Module (EIM) provides connectivity to NENA i3-compliant and RFAI VoIP networks (Not yet available in Alaska) for the delivery of 9-1-1 calls and related information. Several different versions of EIM are available, depending upon the kind of ESINet that the system will be interfaced with:

- NENA i3 - microData
- NENA i3 - Solacom
- NENA i3 - other
- Intrado RFAI

The ESINet is normally interfaced to the VESTA 9-1-1 system by way of a firewall device at each host location. The following features are provided with the EIM module:

- Delivery of 9-1-1 voice to the system using VoIP technology
- Delivery of the ANI as part of the call setup messages (SIP invite)
- Delivery of ALI information in the PIDF-Lo fields (NENA i3 only)
- Implementation of a “make busy” switch for PSAP evacuation/reroute (requires stand-alone FXS unit-switch to be provided by customer or PCA)

REMOTE CAD SERVERS

In virtualized and/or geo-diverse hosts and/or remote PSAPs, RS232 Port Servers RS-232-to IP devices are deployed to extend serial CAD ports to the remote location. These devices provide the following features:

- Four RS-232 ports per unit
- Each unit may communicate with multiple DDS servers
- Web-based GUI for configuration

For each PSAP equipped with a CAD interface, one set of the following will also be provided to allow for CAD port redundancy:

- Blackbox TL601A-R2 port arbitrator
- Blackbox TL158A-R4 4-port data sharing unit (discontinued)
- Blackbox TL159A-R8 8-port data sharing unit

ALARMS

The VESTA 9-1-1 platform provides real time monitoring of its solution elements, both hardware and software modules. In the event a failure is detected, then depending on the severity of the defect, the VESTA 9-1-1 platform will generate a major, minor, or critical alarm. Any observed failure is then indicated on the alarm screen of the VESTA 9-1-1 Configurator. Alarms may also be reported on the optional Activity View application.

Three types of alarms are associated with failures:

- **Critical** - A critical alarm shall produce audible and visual indications at the maintenance position.
 - **Major** - A major alarm shall produce a visual indication at the maintenance position.
 - **Minor** - A minor alarm shall result in an entry in a diagnostic report.
- Alarms may also be reported to Motorola Solutions DS-Comm Monitoring and Response centers for analysis and action by appropriate technical personnel.

VESTA SMS (This feature is included in our proposal as a Service)

The VESTA® SMS solution allows VESTA 9-1-1 systems to connect directly to Text Control Centers (TCC's) using standards-based MSRP protocol for delivery of text messages directly to VESTA console users. Some of the features of the VESTA SMS solution are:

- Standards based text to 9-1-1 solution
- Easy and flexible to operate
- Supports multiple text queues
- Text capability may be assigned to user roles
- Allows transfer of text calls within a single multi-PSAP system

VESTA 9-1-1 CALL-TAKING POSITION

The VESTA 9-1-1 call-taking position provides a GUI to allow Call-takers to quickly process emergency and non-emergency calls. Depending upon the specific customer requirements, VESTA 9-1-1 call-taking positions may be implemented in a variety of ways:

Using standard tower or small form factor (SFF) workstations

- With one or more wide-screen monitors. Workstations support up to two monitors natively using Display Port outputs. Adapters are optionally available to support other display types (VGA, HDMI, DVI, etc.).
- With optional Integrated Instant Recall Recorder (IRR) software. IRR software can be deployed as either single-channel (telephone only) or dual-channel (telephone and radio select audio) modes.
- With one or two Network Interface Cards (NICs) when deployed with two NICs, each NIC may operate independently (connected to two different networks) or be teamed for redundancy.
- With a SAM (Sound Arbitration Module) connected to two standard 310-plug headset jacks
- With either an optional SAM speaker module or an optional basic external speaker
- With optional Genovations 24- or 35-key programmable keypads
- With optional wide-screen touch-screen monitor(s)

VESTA 9-1-1 COMMANDPOST

The VESTA CommandPOST call processing solution is a portable call-taking position designed to allow a call-taker to move to another location, reconnect to their host system, and begin taking 9-1-1 (with ANI/ALI) and administrative calls. All features of the traditional VESTA 9-1-1 position are preserved. In order to use Instant Recall Recording (IRR), the VESTA CommandPOST must be used with the SAM module. The VESTA Command Post call processing solution can connect to the host system via:

- Public Internet connection using VPN
- Private IP network with/without VPN connection
- IP satellite network with/without VPN connection

The VESTA CommandPOST typically consists of the following components:

- Hardened laptop computer
- SAM (Sound Arbitration Unit)
- All required cables
- Weather-resistant rolling case with cut foam liner
- Docking Station (Included)
- Additional Battery (Optional)
- External monitor (included)
- External mouse and Keyboard (included)

NETWORKING

The VESTA 9-1-1 system requires specific network capabilities to operate correctly. For full details on the network requirements, consult the VESTA 9-1-1 IP Networking Guide for the version of software being installed.

As part of the total solution, Motorola Solutions/VESTA may provide a variety of networking components. These may include any/all of the following:

Network switches

- Depending upon the price/performance desired by City of Unalaska or their IT provider, different managed network switches in 24- or 48-port configurations may be quoted. These are typically from either HP or Cisco. Network switches may be either standard or Power over Ethernet (PoE) versions, depending on the configuration required. Refer to the current hardware specifications for the specific model(s) being quoted.

Network Routers

- When deploying geo-diverse or host systems with remote PSAPs, network routers may be required. These are typically provided by the end user and are generally outside the scope of equipment provided by ProComm/VESTA.

PRINTING

As you are aware, the VESTA 9-1-1 system may be equipped with a variety of printers, depending upon the specific customer requirements. Printers may be either locally connected (to a workstation or server) or connected to the VESTA 9-1-1 LAN utilizing either an internal or external network interface. When purchased from ProComm/VESTA, the following types of printers are available:

- USB color inkjet printer - Optional
- USB black & white laser printer (external print server optional)
- Black & white laser printer with integrated NIC/IP print server - Optional
- Color laser jet printer with integrated NIC/IP print Server - Optional
- One (1) new printer for City of Unalaska DOPS is included in the quote.

6.4. DATA MANAGEMENT

VESTA Analytics

The VESTA Analytics solution (formerly Aurora) is the Motorola Solutions next-generation Management Information System (MIS). The VESTA Analytics solution expands on the role of MIS, becoming a comprehensive management platform. Depending upon the size of the system, the VESTA Analytics system may be deployed as either:

- A virtualized machine (VM) on the System Hypervisor server
- On a dedicated, stand-alone server

A record of each incoming and outgoing VESTA® or Sentinel call will be contained within the VESTA Analytics database. At a minimum, the record contains the following information:

- Seize Time
- Answer Time
- Transfer Time
- Hang-up (disconnect) time
- Position number
- Agent
- Incoming number (ANI)
- Date/time
- ALI
- ANI log of disconnected calls showing arrival time and disconnected party abandonment time.

Microsoft Internet Explorer v. 6.0 or later is required to run the browser interface to the VESTA Analytics solution. Microsoft.Net support libraries v. 2.0 or higher are also required on the workstation accessing the VESTA Analytics MIS system. The VESTA Analytics solution may be deployed in 3 different models:

- **Single host.** Supports one system. If multiple PSAPs are provisioned on the system, no separation of PSAP data for security purposes is provided. All users have access to all data on the system
- **Hosted model.** In this model, a single VESTA Analytics system is used for reporting services in a multi-PSAP environment. This model allows each PSAP's data to be segregated so that users may only see/report on their specific PSAP's data.
- **Enterprise model.** In this model, a core VESTA Analytics system is used to accumulate data from multiple edge VESTA Analytics systems. This is most commonly used when data must be collected from multiple stand-alone VESTA 9-1-1 systems.

VESTA Analytics Clients

No dedicated client software is required to access the VESTA Analytics system. All access is performed using the Microsoft Internet Explorer 6.0 or later browser. The workstation accessing the VESTA Analytics system must:

- Have Microsoft.Net 2.0 or later software libraries installed.
- Be connected to the same network as the VESTA Analytics server or have other dedicated, secure access to the VESTA Analytics server network (VPN, etc.)
- One MS-SQL License per user accessing the VESTA Analytics MIS System is required.
- One VESTA Analytics system access license is required per user accessing the VESTA Analytics MIS system is required.

NENA i3 Logger Interface

Beginning with VESTA 9-1-1 R6.0, Motorola Solutions introduced support for the IP-based NENA i3 Logger Interface. This interface allows a variety of information to be sent to 3rd party systems via a LAN/IP interface. Any of the following information may be sent via the i3 Logger interface:

- Location information.
- SMS/Text message logging data.

Use of this interface requires proper network engineering to ensure the security and *safety of both the VESTA 9-1-1 network and the 3rd party systems' network(s)*.

Activity View

The Activity View management application provides real-time monitoring of PSAP activities. The Activity View management application may be configured by the user to display the status of:

- Call taker status
- Group status
- Group ACD status
- Incoming trunks
- Administrative lines
- Active calls

A user may also configure custom message colors and set a variety of thresholds which will trigger color changes.

Beginning with Sentinel Patriot 3.2 or later or VESTA 9-1-1 or later, the Activity View application also supports a Display Panels feature allowing a user to configure a display output that is compatible with large screen (wall-mount) monitors and/or projectors.

The Activity View management application can also display up to five (5) marquee messages to inform call-takers of upcoming events.

NOTE: It is recommended that the Activity View application be installed on a separate workstation from the VESTA 9-1-1 call-taker application due to the amount of CPU and network resources required. If installed on the same workstation as the VESTA 9-1-1 call-taker application, both applications should not be running at the same time.

6.5. VESTA EQUIPMENT LIST

VESTA® 9-1-1

Qty.	Part No.	Description
2	870899-0104R7.6	VESTA® 9-1-1 V911 R7.6 LIC/DOC/MED
1	873099-03002	V911 CAD INTF KIT
1	870891-66101	V911 CAD INTFC LIC ONLY
		VM Small Server Bundle
		<i>Note: The Small Server Bundle is for PSAP's up to 10 positions with an annual call volume of 100,000 or less.</i>
1	853031-MLSSVRSG2	V-ML SVR BNDL SML SGL
2	04000-68007	V-SVR BASIC SPT 3YR (Included)
2	04000-68009	V-SVR BASIC SPT 5YR (Option)
		VESTA® SMS
		<i>Note: Customer is responsible for Text Control Center (TCC) services and network charges.</i>
2	870891-66301	VESTA 9-1-1 SMS LIC
1	809810-00102	V911 ADV DATA LVL 1 ANNUAL SUB <i>Note: Annual Subscription - Year 1</i>
1	809810-00102	V911 ADV DATA LVL 1 ANNUAL SUB <i>Note: Annual Subscription - Year 2</i>
1	809810-00102	V911 ADV DATA LVL 1 ANNUAL SUB <i>Note: Annual Subscription - Year 3</i>
1	809810-00102	V911 ADV DATA LVL 1 ANNUAL SUB <i>Note: Annual Subscription - Year 4</i>
1	809810-00102	V911 ADV DATA LVL 1 ANNUAL SUB <i>Note: Annual Subscription - Year 5</i>
		<i>Note: Firewall supports Call and Text Handling for ESInet Interface Module (EIM), Text to 9-1-1 and Direct PSAP Interconnect (DPI).</i>
2	03800-03060	FIREWALL 60E
2	03800-03063	WARR FIREWALL 60E 3YR (Included)
2	03800-03065	WARR FIREWALL 60E 5YR (Option)
2	809800-00200	CFG NTWK DEVICE
		VESTA® 9-1-1 CDR Module

2	873099-00602	V911 CDR SVR LIC
2	873099-01102	V911 CDR PER SEAT LIC
1	04000-00420	CALL RECORD PRNTR HI END
1	04000-00419	PARALLEL PRNTR RIBBON
1	65000-13403	CBL USB 2.0 A/B 10FT
1	6204C-60023	PRINT SVR 420 PRINTER
		VESTA® 9-1-1 Activity View
2	873099-00802	V911 ACT VIEW LIC PER ST
1	873099-00702	V911 ACTIV VIEW SYS LIC
1	809800-35122	V911 ACT VIEW SW SPT 3YR (Included)
1	809800-35124	V911 ACT VIEW SW SPT 5YR (Option)
		Administrative Workstations
1	61000-409612	DKTP ELITE MINI 705 G5 W/O OS
1	04000-00441	WINDOWS 10 LTSC LIC
1	64000-00600	PC MOUNTING BRKT
1	63000-221693	MNTR FP WIDE SCR N LED 22IN
1	809800-00102	GENERIC WKST CFG FEE
		VESTA® 9-1-1 Basic Operations
2	PS-0SQ-VSML	VS BSC MLTP PER SEAT LIC
2	SS-0SQ-VSSL-3Y	SPT VS BSC 3YR
2	SS-0SQ-VSSL-5Y	SPT VS BSC 5YR
		VESTA® 9-1-1 IRR Module
2	873099-00502	V911 IRR LIC/DOC/MED
2	809800-35112	V911 IRR SW SPT 3YR (Included)
2	809800-35114	V911 IRR SW SPT 5YR (Option)
		VESTA® Workstation Equipment
2	61000-409612	DKTP ELITE MINI 705 G5 W/O OS
2	04000-00441	WINDOWS 10 LTSC LIC
2	64000-00600	PC MOUNTING BRKT
2	63000-221693	MNTR FP WIDE SCR N LED 22IN
2	64007-50021	KEYPAD 24 KEY USB CBL 12FT
2	853030-00302	V911 SAM HDWR KIT
2	853004-00401	SAM EXT SPKR KIT
2	02800-20701	HDST K 4W/MOD BLK CARBON
2	03044-20000	HDST CORD 12FT 4W MOD BLK
2	809800-35109	V911 IWS CFG
2	809800-35108	V911 IWS STG FEE
1	870890-07501	CPR/SYSPREP MEDIA IMAGE

1	64040-60087	VESTA® 9-1-1 Admin Printer PRNTR 506N BLK/WHT <i>Note: Laserjet Black and White printer. Recommended monthly volume, 1,500 to 5,000 pages</i>
1	65000-13403	CBL USB 2.0 A/B 10FT
1	65000-00238	CBL PATCH BLUE 3FT
1	65000-00124	CBL PATCH 15FT
Network Equipment		
<i>Note: Firewall supports Remote and Internet Access for Managed Services, Remote position access and RapidSOS.</i>		
1	03800-03060	FIREWALL 60E
1	03800-03063	WARR FIREWALL 60E 3YR (Included)
1	03800-03065	WARR FIREWALL 60E 5YR (Option)
1	809800-00201	VPN CFG SVCS
2	04000-29638-X	SWITCH 2960-X+CBL 24-PORT
2	04000-29719	WARR 2960-X 24P 24X7 3YR
2	04000-29716	WARR 2960-X 24P 24X7 5YR
Peripherals & Gateways		
2	04000-00129	MED 1000B CHASSIS BNDL
1	870890-74901	V911 M1KB FIRMWARE
2	04000-00188	SW SPT M1000 GATEWAY 3YR (Included)
2	04000-00190	SW SPT M1000 GATEWAY 5YR (Option)
2	04000-00116	MED 1000 FXO-LS BNDL
2	04000-00119	MED 1000 FXS-O BNDL
2	04000-00152	MED 1000 1-SPAN BNDL
2	04000-00193	SW SPT M1000 T1 MOD 3YR (Included)
2	04000-00195	SW SPT M1000 T1 MOD 5YR (Option)
1	04000-00538	MED 800C HA PAIR BNDL
2	04000-00533	SW SPT MED 800C GATEWAY 3YR (Included)
2	04000-00535	SW SPT MED 800C GATEWAY 5YR (Option)
1	04000-00541	MED 800C HA 10 SBC SESSIONS (1-250)
ALI/CAD Output		
1	04000-00159	BLKBX TL159A 8-PORT DATACAST
8	65000-00262	KIT CBL RJ11 ADPTR DB25

		<p>Cabinet & Peripheral Equipment</p> <p><i>Note: Cabinet must come pre-equipped with power strips if customer chooses to provide and sends it to Vesta Solutions, Inc for configuration.</i></p> <p>1 00600-20042 CABINET 42U 19IN</p> <p>1 63009-192803 MNTR RACK KYBD KVM 19IN</p> <p>1 04000-00707 FAN KIT BLK</p> <p>1 00600-20143 CABINET ROOF FAN HOLE</p> <p>1 04000-50033 SEISMIC BRACING KIT</p> <p>2 04000-25631 PDU 24-OUTLET TWST LOCK 20AMP</p> <p>1 809800-80044 SVR CAB CFG FEE</p> <p>Time Synchronization Equipment</p> <p><i>Note: Customer to provide Time Sync Equipment with Antenna and Netclock Cables.</i></p>
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VESTA® 9-1-1 IP Phones

Qty.	Part No.	Description
2	870809-00901	VESTA® 9-1-1 Phones/Voice Mail Option IP PHN LIC ENH
2	04000-16867	6867I PHN/ADPTR KIT
2	04000-01685	685i KEY EXP MOD
2	809800-10201	IP PHN CFG FEE PER PHN
2	04000-01804	POE PWR INJECTOR
2	873099-01102	VESTA® 9-1-1 CDR Module V911 CDR PER SEAT LIC
2	PA-SSG-ALSL	VESTA® Analytics - LITE Multi Product Purchase V-ANLYT LT PER SEAT LIC
2	SA-SSG-ALSL-3Y	SPT V-ANLYT LITE 3YR (Included)
2	SA-SSG-ALSL-5Y	SPT V-ANLYT LITE 5YR (Option)

VESTA® Analytics

Qty.	Part No.	Description
1	873399-00203.5	VESTA® Analytics Lite - Multi Product Purchase V-ANLYT 3.5 LITE DOC/MED
1	873391-04003	V-ANLYT LT LIC

1	873391-04002	V-ANLYT LT USER LIC
2	PA-SSG-ALSL	V-ANLYT LT PER SEAT LIC
2	SA-SSG-ALSL-3Y	SPT V-ANLYT LITE 3YR (Included)
2	SA-SSG-ALSL-5Y	SPT V-ANLYT LITE 5YR (Option)
<p>VESTA® Analytics Lite Server Equipment for Virtualized Server Bundle</p> <p><i>Note: Additional Hardware to be installed in DDS-B Server.</i></p>		
1	BA-M00-ALA0-3	V-ANLYT LITE ADD-ON BNDL

VESTA® Map Local

Qty.	Part No.	Description
VESTA® Map Local		
<i>Note: Supported with VESTA® R7 and R7.1</i>		
1	871399-40103.0	VMAP LOCAL R3 BASE LIC-KEY/MED
1	871391-40101.0	VMAP LOCAL BASE LIC ONLY
2	809800-46008	VMAP LOCAL BASE SPT 3YR (Included)
2	809800-46010	VMAP LOCAL BASE SPT 5YR (Option)
1	809800-44119	VMAP LOCAL GIS SVCS
VESTA® Map Local - Additional Hardware		
2	6400C-40050	8GB RAM DDR4 705 G4/G5
Monitors		
2	63000-221693	MNTR FP WIDE SCRIN LED 22IN
VESTA Map Local Installation		
11	809800-17006	FIELD ENG-EXPRESS
<i>Note: Channel to install RAM onsite. Vesta Solutions FE remote installation/configuration of VML software, map build per workstation.</i>		

PEAbody

Qty.	Part No.	Description
1	871599-00105.0	PEAbody 4.5 PBDY 5.0 LIC/DOC/MED
1	809800-01519	PB 4.X/5.X SPT THRU Y3PEI (Included)
1	809800-01521	PB 4.X/5.X SPT THRU Y5PEI (Option)
		PEAbody Server Equipment
1	62040-G819204	SVR 2U RACK ENH DL380/G10 2.2
4	64000-20064	HARD DRIVE 300GB 12G SAS 10K
1	04000-01751	TS-4 PORT TERMINAL SVR
2	65000-00182	CBL RJ45-10P/DB25M 4FT
1	63002-172805	MNTR NEC 17IN
1	64021-10025	KYBD/MOUSE BNDL
1	04000-00444	SVR WIN2019 STD DWNGRD 2012
1	04000-00346	SQL 2014 SVR RUN EMB LIC
1	809800-01507	PBDY SVR CFG FEE
		PEAbody Data Conversion Services
48	809800-01532	PBDY DATA FMT/CONV SVC
1	871590-00701	PBDY DATA CONV UTILITY
1	809800-01527	PBDY CUSTOM ALI FMT
		Cabinet & Peripheral Equipment
		<i>Note: Server to reside in Backroom Cabinet.</i>

Managed Services

Qty.	Part No.	Description
		Monitoring & Response (M&R): Activation Fee
		<i>Note: M&R Activation Fees will apply if M&R services are disabled prior to receipt of a PO for the M&R support renewal.</i>
1	809800-14150	M&R ACT FEE, SMALL SITE
		Monitoring, PM & AV Service: Servers
		<i>Note: Includes (2) DDS Servers, (1) PEAbody Server.</i>
3	04000-00398	M&R SVR AGENT LIC
3	809800-16363	M&R PM AV SVR SRVC 3YR (Included)
3	809800-16365	M&R PM AV SVR SRVC 5YR (Option)

		Monitoring, PM & AV Service: Workstations
		<i>Note: Includes (2) Workstations, (1) Management Console, (1) Admin Workstation, (1) Laptop (In order to provide Managed Services offerings for CommandPOST positions, they are required to be connected to the VESTA 9-1-1 system and active at all times.)</i>
5	04000-00399	M&R WKST AGENT LIC
5	809800-16379	M&R PM AV WKST SRVC 3YR (Included)
5	809800-16381	M&R PM AV WKST SRVC 5YR (Option)
		Monitoring, PM & AV Service: IP Devices
		<i>Note: Includes (2) Virtual Host/Machines, (2) MDS Servers, (2) ASN Servers, (2) Gateways, (1) Firewall, (2) Firewalls for EIM/SMS, (2) Cisco Switches, (2) SBC Devices.</i>
15	04000-00400	M&R NETWORK/IP AGENT LIC
15	809800-16345	M&R IP DEVICE SRVC 3YR (Included)
15	809800-16347	M&R IP DEVICE SRVC 5YR (Option)
		Gateways and Equipment
1	04000-00127-SP	MED 1000B CHASSIS SPARE
1	04000-00116	MED 1000 FXO-LS BNDL
1	04000-00119	MED 1000 FXS-O BNDL
1	04000-00132	MED 1000B PWR SPLY BNDL
1	04000-00144	MED 1000B CPU BNDL
1	04000-00152-SP	MED 1000 1-SPAN SPARE
1	04000-01751	TS-4 PORT TERMINAL SVR
1	65000-00182	CBL RJ45-10P/DB25M 4FT
		Cables and Switches
1	04000-29638-X	SWITCH 2960-X+CBL 24-PORT
1	04000-29717	WARR 2960-X 24P 24X7 1YR
1	04000-29719	WARR 2960-X 24P 24X7 3YR
		ProDesk Mini Workstation Equipment
1	61000-409612	DKTP ELITE MINI 705 G5 W/O OS
1	04000-00441	WINDOWS 10 LTSC LIC
1	64000-00600	PC MOUNTING BRKT
1	63000-221693	MNTR FP WIDE SCRNL LED 22IN
1	64007-50021	KEYPAD 24 KEY USB CBL 12FT
1	853030-00302	V911 SAM HDWR KIT
1	853004-00401	SAM EXT SPKR KIT
1	02800-20701	HDST K 4W/MOD BLK CARBON
1	03044-20000	HDST CORD 12FT 4W MOD BLK
1	809800-00102	GENERIC WKST CFG FEE
1	04000-01594	WARR NBD 600/705 G2/G3/G4/G5 5YR

Optional Parts/Spares: Spare Parts are NOT included in our proposal but available for purchase if requested

Extended Warranties

Qty.	Part No.	Description
2	04000-01623	<p>Server Extended Warranty</p> <p>Note: Includes (2) VESTA 9-1-1 Servers, (1) PEAbody Server.</p> <p>WARR 24X7 ML110G10 5YR</p> <p>Note: Upgrade & uplift from 3 yr warranty 9x5 NBD to 5 yrs, 24x7, 4 hour response time.(5 year warranty by manufacturer)</p>
1	04000-01619	<p>WARR 24X7 DL380G10 3YR</p> <p>Note: Upgrade & uplift from 3 yr warranty 9x5 NBD to 5 yrs, 24x7, 4 hour response time. (5 year warranty by manufacturer)</p>
4	04000-01594	<p>Workstation Extended Warranty</p> <p>Note: Includes (2) Workstations, (1) Management Console, (1) Admin Workstation.</p> <p>WARR NBD 600/705 G2/G3/G4/G5 5YR</p> <p>Note: Warranty upgrade from 3 yrs warranty 9x5 NBD to 5 yrs 9x5 NBD.(5 year warranty by manufacturer)</p>

VESTA® CommandPOST

Qty.	Part No.	Description
1	873099-01102	<p>VESTA® 9-1-1 CDR Module</p> <p>V911 CDR PER SEAT LIC</p>
1	873099-00802	<p>VESTA® 9-1-1 Activity View</p> <p>V911 ACT VIEW LIC PER ST</p>
1	PS-0SQ-VSML	<p>VESTA® 9-1-1 Basic Operations</p> <p>VS BSC MLTP PER SEAT LIC</p>
1	SS-0SQ-VSSL-3Y	SPT VS BSC 3YR (Included)
1	SS-0SQ-VSSL-5Y	SPT VS BSC 5YR (Option)

1	873099-00502	VESTA® 9-1-1 IRR Module V911 IRR LIC/DOC/MED
1	809800-35112	V911 IRR SW SPT 3YR (Included)
1	809800-35114	V911 IRR SW SPT 5YR (Option)
		CommandPOST Hardware
1	61050-G819605-3Y	LAPTOP ZBOOK15 G6 W/O OS & WARR 3YR
1	04000-00441	WINDOWS 10 LTSC LIC
1	65000-00263	DOCK STATION THUNDERBOLT KIT
1	64021-10025	KYBD/MOUSE BNDL
1	65000-00249	CBL PATCH BLUE SNAGLESS 50FT
1	63000-221693	MNTR FP WIDE SCR N LED 22IN
1	64007-50021	KEYPAD 24 KEY USB CBL 12FT
1	853004-00301	CPOST SAM HDWR KIT
1	853004-00401	SAM EXT SPKR KIT
1	809800-35109	V911 IWS CFG
1	809800-35108	V911 IWS STG FEE
1	870890-07501	CPR/SYSPREP MEDIA IMAGE
		VESTA® Analytics Licensing & Support
1	PA-SSG-ALSL	V-ANLYT LT PER SEAT LIC
1	SA-SSG-ALSL-3Y	SPT V-ANLYT LITE 3YR (Included)
1	SA-SSG-ALSL-5Y	SPT V-ANLYT LITE 5YR (Option)
		VESTA® Map Local
		<i>Note: Supported with VESTA® R7 and R7.1</i>
1	871391-40101.0	VMAP LOCAL BASE LIC ONLY
1	809800-46008	VMAP LOCAL BASE SPT 3YR (Included)
1	809800-46010	VMAP LOCAL BASE SPT 5YR (Option)
1	63000-221693	MNTR FP WIDE SCR N LED 22IN
1	6400C-40051	8GB RAM ZBOOK 15 G5/G6

6.6. PCA ALASKA RESPONSIBILITIES.

- PCA will provide a single point of contact for the duration of the project.
- PCA will purchase and deliver to Unalaska all equipment as listed in 6.5 EQUIPMENT LIST paragraph.
- PCA will purchase and deliver to Unalaska remaining miscellaneous hardware necessary to deploy a VESTA 911 system at UDOPS.
- PCA will install a 19" rack/cabinet in designated space in Unalaska DOPS building. It is assumed that required power, air control and grounding are already present there (Phase I upgrades).
- PCA, working with Vesta FE (Field Engineer) and with UDPOS representative will develop a GUI (Graphical User Interface) for 911 call taker to interact with when receiving local 911 calls or making/receiving calls on Admin lines.
- During project development, planning phase (DDR) PCA representative will participate in calls regarding integration of a new 911 system with a local Telco company, City of Unalaska IT Department and outside ANI/ALI provider.
- If this feature/option is requested by DOPS, a headset integration will be performed so a Dispatcher can manage/answer both: radio and phone calls via single headset at each Operator Position.

6.7. COU VESTA SYSTEM RESPONSIBILITIES

- Provide single point of contact for the duration of the project.
- DOPS will provide site access during project implementation to both: dispatch office and radio/server room so backroom equipment and Call Taker positions could be installed.
- DOPS will be responsible for making necessary arrangements with the local Telco company TelAlaska to provide and deliver four (4) analog CAMA trunks to the punch block in the backroom, where Vesta servers will be installed. These CAMA trunks shall meet NENA requirements for CAMA circuits delivering 911 calls to a PSAP.
- COU, working with local Telco company, will be responsible for developing GIS data with land line phone information and corresponding addresses (local ANI/ALI database).
- COU will be responsible for making arrangements with outside ANI/ALI providers (like Intrado) to deliver ANI/ALI wireless phone database location and mapping software to the Unalaska PSAP (DOPS) to be managed, recorded and displayed on Vesta call taker position when receiving 911 call.
- COU IT Department, working with Vesta FE (and PCA technician on site), will develop an integration plan for SIP/VoIP connectivity between Vesta Gateway and COU existing Cisco CME system (to manage admin lines/extensions).
- If Vesta 911 CommandPOST (portable Dispatch position) will be deployed outside of Dispatch room, it will be responsibility of COU to deliver proper, secure LAN network between that location and the network Vesta system is part of. PCA will advise UDOPS accordingly for the connectivity and telephone requirements.
- During active maintenance contract (which includes Motorola/ 24-7-365 Vesta System Monitoring & Alerting Services) COU will be responsible for providing a remote access IP circuit to the Vesta network (via cable or DSL modem). Static IP of such device will

be required. PCA/Vesta will provide and manage our own Firewall hardware on that circuit.

- UDOPS will make sure dispatchers and Dispatch Administrator(s) are available during Vesta training, with the Vesta trainer traveling to Unalaska to do on-site training.

6.8. QUALIFICATIONS AND ASSUMPTIONS

- It is assumed that the proposed PCA 911 system, Vesta 911, will consist of two (2) dedicated call-taker positions and one (1) portable CommandPOST position and one rack of equipment (network equipment, servers, gateway, PDUs etc) installed in the backroom of UDOPS building.
- It is assumed that Vesta 911 system will be installed on dedicated LAN circuits, not shared with any other equipment, LAN network.
- It is assumed that all necessary data related to ANI/ALI information (for local land lines and wireless phones) will be available to PCA/Vesta team during system deployment.
- It is assumed that ANI/ALI database will be in the form easily convertible to documents with *.xls, *.xlsx, *.csv or *.txt extensions.
- It is assumed that all 911 calls will be managed and delivered to Unalaska DOPS/PSAP from a single Telco provider – TelAlaska (via 4 analog CAMA trunks).

6.9. PHASE III: PRICING SUMMARY

Hardware, Logistics and Labor Cost.

Item	Description	Price
1	Engineering Services and Project Management	\$5,500.00
2	Hardware: Vesta equipment and miscellaneous hardware provided by PCA) during Phase III system installation	\$179,950.00
3	Labor: Project Preparation and a Travel Time (at Regular, non-DB rate)	\$3,055.00
4	Labor: On- Site System Installation, Configuration, Cutover and ATP	\$22,921.00
5	Services and Training Related to Site Deployment by Vesta	\$87,069.00
6	Logistics Expenses: Travel, Lodging, Car Rental, Shipping Cost and Per-diem for 2 PCA technicians and VESTA PE	\$21,325.00
Project Cost (Hardware, Labor & Logistics)		\$319,820.00
7	24/7/365 Remote Support, Monitoring and Alerting by Vesta – 3 year support is included. (A cable/DSL modem with broadband access is required. COU is responsible for providing remote access and covering the cost)	\$81,876.00
8	24/7/365 On Site and Remote Support by PCA (VESTA 911 system with permanent 2 OPs, one CommandPOST OP and backroom equipment) - Year 1 (Long term MSA option is available and can be discussed during DDR)	\$21,214.00

For the total Phase III, ProComm Alaska quotes: \$ 422,910.00

7. PROJECT IMPLEMENTATION PLAN

The mission-critical nature of radio dispatch console systems makes the installation and migration to any new system important steps of the process. Our High-Level Implementation Plan, summarized in the following paragraphs in *Section 6.1 below (Cutover Plan)*, provides an approach for a well-organized and executed system integration.

The Plan will be revised during joint meetings and after site visits / surveys as required. Then, a draft Plan is provided for COU comment before a final version is prepared and submitted for final approval. The finalized Plan guides all implementation activities for that phase of the project and monitors and tracks progress against timelines and milestones.

Because a site survey has not been conducted prior to submittal of this proposal, a clearer understanding of all requirements is needed. We fully anticipate that during DDR (Detailed Design Review) any changes in the requirements and goals will enable us to develop a plan that satisfies the final requirements. The information presented below is based on an implementation scope of work that we normally encounter in the industry.

7.1. PROJECT STAFFING

Avtec, VESTA, and ProComm Alaska will provide qualified personnel to support all project management, engineering, installation, documentation, testing and training requirements specified under the contract. ProComm's Project Manager (PM) manages the Radio Dispatch Console System project and will be the single point of contact for the implementation of the system. The ProComm Alaska PM is responsible for contract administration, scheduling, and monitoring progress of the deliverables. The PM will hold project calls and present status reports on the implementation tasks to the Customer Lead Project Manager. All formal communications are to be channeled through the PM.

7.2. KICK-OFF MEETING

During an initial kick-off meeting held remotely, ProComm Alaska, COU, and Avtec review the Project Plan and make any necessary adjustments, so that the Scout Plus system can be delivered on time, within budget, and meet the needs of the RFP as described and bid.

This introductory meeting is to:

- Review project scope,
- Discuss deliverables, assumptions and risks,
- Set a preliminary timeline for any required surveys and implementation,
- Review the Statement of Work (SOW), and
- Discuss division of responsibilities, training, cutover, and system acceptance.

7.3. CONTRACT/PROJECT INITIATION –

After approval of the final design and issuance of final Notice to Proceed, the implementation process will begin with the Contract/Project Initiation phase. During this phase, the project team is formed and a kickoff teleconference is held. This phase is considered complete following the teleconference.

7.4. COMPLETE SITE WALKS

In order to capture the specific details of site readiness, PCA will conduct a site walk during Phase I to capture any unknown scope of work that must be appended to the project prior to the final 2 phases. These site walks will capture the viability issues of each site from a system design and installation standpoint, as well as from a physical capacity standpoint, to ensure that the site is able to accommodate the proposed equipment. This task includes the testing of any existing equipment that will interface with the equipment PCA is providing.

If requested as an option and at an additional cost, PCA will prepare an updated R56 Site Audit Report that summarizes the findings of the site audits. The report will include any site preparation recommendations to the COU to aid in providing a suitable environment for system installation at all locations.

7.5. CONDUCT DETAILED DESIGN REVIEW –

A DDR call will be held with the COU to ensure that all requirements are known and that the design meets those requirements. During this meeting, PCA and the COU will review the operational requirements and the impact of those requirements on various equipment configurations. The goal of this meeting is to clarify the system design, identify any special product requirements and their impact on system implementation, and redefine the system implementation plan. A discussion of the cutover plan and methods to document a detailed procedure for cutover will begin at this meeting. It is understood that your current dispatch system must remain active until the new equipment is installed and fully tested.

7.6. ORDER PROCESSING –

After the conclusion of the Detailed Design Review phase, PCA will assemble the final equipment list based on any changes made during the DDR meeting. A final validation is performed on the equipment lists resulting from the detailed design review and the lists are edited. Validation includes a check for valid model numbers, valid versions, compatible options to main equipment, and current pricing and delivery data. COU will then identify for PCA the storage location(s) for this equipment.

The next step is for PCA to create orders for the equipment based on all the information gathered. Once it has cleared all validation points, a PCA Logistics Analyst will reconcile the equipment list(s) to the original purchase order or contract.

This phase will be deemed complete when the equipment order is transmitted to the manufacturing facility.

7.7. IMPLEMENTATION –

- When the equipment is received at the location designated by the COU, evidence of receipt will be faxed or emailed to PCA. Vesta's and PCA's field installation team will then be dispatched to install the equipment per the detailed design documentation. During field installation of the equipment, any required changes to the installation will be noted and included with the final "as-built" documentation of the system. The "as-built" documents will be provided along with any maintenance and operator manuals.

This phase will be deemed completed when all equipment has been installed at the location designated by the COU.

7.8. SITE PREPARATION

The following scope of work for the site preparation follows a standard approach in which the Customer has the primary responsibility in preparing the sites for the installation.

Site preparation items that are the Customer's responsibility include network connectivity between sites; installation of building wiring for AC power; line protectors; line conditioners; surge protectors; cross connections to the network; Demarcation Line level specification testing; any repair, radio and telephone interface wiring; furniture modifications; lighting; single point grounding; etc. The Customer is responsible for confirming with ProComm the cable type and cable run lengths to ensure specification compatibility.

- • Electrical – Customer is responsible for providing adequate electrical power. Customer is responsible for providing AC power for each console location and the fixed equipment per Vesta specification. All Vesta system equipment operates on 120VAC/60Hz commercial power. (2 each 20Amp, 125Volt NEMA L5-20R, twist lock receptacle type will be required, preferably each on dedicated breaker)
- • Ventilation, Heating, Air Conditioning – Customer is responsible for building ventilation, heating or air-conditioning at any equipment location. Adequate ventilation must be provided. Vesta is responsible for providing the Customer with all environmental requirements at proposed installation locations to ensure that proper equipment operation is achieved.
- • Facilities and Access – Keys or on-site access to the equipment rooms and cabling installation areas are to be provided by the Customer as required by PCA. Normal access hours are to be negotiated between the Customer and PCA. If required by PCA, Customer provides a secure room at the installation site with a dial out phone during the implementation phase of the project. This room will be used by PCA personnel for its operations, temporary storage of Scout system components, and securing test equipment and tools.

7.9. SCREEN BUILDING WORKSHOP

Prior to equipment staging, a screen building workshop is conducted remotely by Avtec from their Lexington, SC, facility, so that COU personnel can develop and document user interfaces that meet the business needs of the various COU users. At least one representative from each user group is recommended to attend the workshop online. Information gathered at the workshop enables Avtec to design the Graphical User Interface (GUI) screen configurations for the console system. The workshop is a fluid process between the Avtec engineer, project manager, and the attendees where changes are made to the Avtec database as attendee feedback is received. The Customer reviews and accepts the GUI screen configuration before staging takes place.

Prior to the workshop, Avtec designs a basic screen template for use during the workshop. The Avtec engineer utilizes a Demo unit for the workshop. Radio and phone simulators are loaded on the demo to give users a real view of a working console.

Customer attendees of the workshop should be key users who understand the existing and/or desired setup of the console system to be delivered. They should have general information as to how many talk groups and/or phones need to be configured. Circuit names are not important at this point of the project; generic names can be used. However, it is important to understand call flow requirements that are required for system operation. If phones are to be integrated into the console, attendees must bring autodial and grouping information (it does not have to be complete) but should be enough so that a basic working template can be developed and duplicated in the same format for future autodial additions).

7.10. STAGING AND FACTORY ACCEPTANCE TESTING

Prior to shipment to the COU site, all systems are staged and a Factory Acceptance Test (FAT) is performed. The FAT is conducted in accordance with the documented FAT Plan, which confirms that the software and hardware are fully functioning. Any deficiencies are documented, and an agreed-on plan of action is taken to correct them. Testing is conducted by the System Integration Engineer. Customer Personnel are invited to participate.

Procedures in the FAT Plan include:

- • Functionality Testing of standard software feature set and hardware components,
- • Connectivity Testing,
- • Redundancy Testing.

Successful completion and sign off of the FAT milestone ensures that the Vesta solution is ready for shipment to the designated site(s).

7.11. INSTALLATION

The Vesta 911 dispatch solution is installed and maintained only by Vesta -trained and certified personnel. Installation is performed using best practices and in accordance with the Vesta Suite Installation and Upgrade Guide, which provides detailed step-by-step procedures to facilitate a successful installation and deployment of the Vesta 911 solution.

7.12. SYSTEM ACCEPTANCE TESTING

The Avtec/ProComm team will develop an Acceptance Test Plan (ATP) for the COU installation. The ATP provides test elements, procedures, and information for exhibiting the ability of the Vesta system hardware and software to meet all customer requirements. It ensures that all requirements for acceptance testing the Vesta system are appropriately assessed and planned within the overall project plan and demonstrates to the customer that the testing processes are appropriately managed and controlled. Successful completion of the ATP following installation ensures customers that the Vesta hardware and software operates as warranted. The ATP includes procedures for testing the following:

- All console and rack-mounted equipment connections,
- All functional requirements (i.e. user login, touch screen functionality, phone patching, phone to radio patching, paging, calls transferring, redundancy, etc.).

The ATP also includes:

- Action items and outstanding issues not completed or resolved at the time of ATP completion,

- Action plan for each open action item or outstanding issue,
- ATP completion document with signoffs for the customer and PCA/Vesta,
- Test equipment settings,
- Calltaker test setup diagram,
- Servers/Gateways test setup diagram,
- Description of the test configuration. .

Results from the acceptance testing are formally recorded in the ATP. System Integration Engineers familiar with the operation of the Vesta system equipment and the operation of dispatch consoles are responsible for executing the ATP with the participation of COU dispatch personnel.

7.13. CUTOVER PLAN

To help ease the transition of dispatchers, Vesta console screens can be configured to mirror the existing screens on legacy consoles. Vesta will conduct a remote workshop to determine user needs and to help in development of screen designs. This enables the users and administrators to become more comfortable with the new consoles before implementation.

During the initial installation phase, the Vesta positions are installed alongside the existing legacy 911 system but may not be connected to existing radio infrastructure. This will reduce cutover time from the legacy 911 system to the new Vesta 911 system

8. PROPOSED PROJECT SCHEDULE

ProComm will develop timelines for all major milestones of the project. Shortly after contract award, the ProComm Project Manager will work with the COU project team to provide a more detailed project schedule that meets the needs of COU dispatch and IP/IT operations. A preliminary high-level timetable for the implementation of the 3 Phase communications system upgrade efforts are shown in the following table. Payment milestones amounts are derived and correlated from the pricing table below the Implementation Schedule.

Preliminary Implementation Schedule for Phases I, II, & III			
ID	Task	Calendar Days	
		Start	Finish
1	Project Award assuming a late June 2021 date.	1	1
2	Requirements Validation / Detailed Design Review (DDR). Gurney to order 2 additional monitors for dispatch.	2	2
	Payment Milestone – Engineering & PM -Phase I		
3	Project Kickoff Meeting (Remote) and define timeline for all Phases and what is required. Discuss temporary dispatch set up	3	3
4	Site Survey (ProComm Alaska) Review Notes / Project Development and details, engage COU IT/IP Personnel too	8	9
5	Payment Milestone-Equipment & Staging – Phases I-III		
7	Screen Building Workshop (Remote) for Avtec Console System prior to shipment. Identify temp dispatch goals and methods.	10	10
8	Engage TelAlaska / Intrado Phase II Wireless E911 system requirements for delivery and timing with wireless carriers too	11	14
9	Engage radio users for new repeater programming and features.	15	16
10	Identify secure heated shipped equipment storage facility for all equipment and parts and keep track of arrivals from suppliers	17	18
11	System Shipment to Unalaska / Avtec / Motorola repeater and control station radios.	19	65
	Payment Milestone – Deployment Phase I		
12	Equipment inventory that has arrived On-site at Customer Locations and storage facilities. Weights and dimension supplied.	66	70
13	Agree on deployment dates and order of installation of Phases in preparation for equipment deployment.	71	72
14	Verify Phase 2 Wireless upgrades are progressing and that TelAlaska has installed and tested 4 CAMA trunks to the PSAP	73	75
15	Preliminary Connectivity Testing at Customer Site	76	80
16	Complete site readiness at Haystack and Dispatch Comm Room	81	88
17	System Installation of Motorola APX Consolettes at Dispatch, grounding, antenna install, racking, and connectivity to console	89	90

18	Install new coax and antennas with new cable systems, ground	91	92
19	Complete tower work at Haystack and Dispatch roof array	93	94
20	Install NetClock and cable/ground all devices and equipt racks in comm room working with COU IT personnel.	95	96
21	Execute Acceptance Test Plan and test Console control stations and new repeaters with radios in the field for all functions	97	98
22	Install temporary dispatch Console equipment and deinstall old MCC5500 console equipment.	99	100
23	Install new Avtec console equipment in dispatch while dispatch operates on temporary solution. Headset integration.	101	102
24	Operator training on new Avtec Console equipment and test	103	104
25	Training complete, cut over to new console system, System Acceptance Testing, Documentation.	105	106
	Payment Milestone - Completion		
26	Avtec Customer Services Support for operations / Final Documentation completed	107	109
27	Receive equipment and technology	110	111
28	Confirm 911 CAMA Trunks working as required / Confirm Phase 2 wireless with carriers and Intrado is working as required.	112	113
29	VESTA System Installation with PCA and VESTA Field Technicians in dispatch and comm room. Test comm room circuits IT network, telephone system, dispatch system. Headset integration with office phone and console system audio. Operate portable CommandPOST E911 system and train users for operation and deployment requirements.	114	119
30	System Cutover and Testing	120	122
31	Dispatcher Live Training on new system for all features	123	124
32	System Acceptance Test	125	126
33	Documentation Submittal	127	128
	Payment Milestone - Completion		
34	VESTA Customer Services Support	130	Onward

9. TOTAL PROJECT PRICING

Phase	Price
Phase I - UDOPS UPGRADES, AVTEC CONSOLE, & NETCLOCK	
Engineering & Project Management	\$20,647.11
Equipment & Staging	
Motorola APX Consolettes (Motorola PO)	\$56,366.87
Avtec Console Equipment	\$82,020.76
Netclock Hardware	\$11,454.00
Site Hardware for upgrades, grounding	\$43,382.00
Subtotal Equipment & Staging	\$193,223.63
Deployment: Tower work, Installation, Logistics	\$40,595.00
Completion: Final Install & ATP w/ Avtec support	\$24,033.00
Total Cost Phase I	\$278,498.74
Phase II - HAYSTACK SITE UPGRADE AND REPEATERS	
Engineering & Project Management	\$18,315.00
Equipment & Staging	
Motorola GTR Repeaters (Motorola PO)	\$92,880.00
Antennas and equipment, shipping to UDOPS	\$6,615.00
Subtotal Equipment & Staging	\$99,495.00
Deployment: Installation, Programming, Tuning	\$19,750.00
Completion: ATP	\$18,252.00
Total Cost Phase II	\$155,812.00
Phase III - VESTA E 911	
Engineering & Project Management	\$5,550.00
Equipment & Staging	
VESTA E911 equipment	\$179,950.00
Deployment: Installation, Configuration, Testing	
PCA Personnel Travel & PerDiem	\$25,166.00
Logistics for VESTA Field Engr.	\$21,325.00

Subtotal Deployment	\$46,488.00
VESTA Dispatch Operator Training	\$86,069.00
Extended Warranty & System Support	
PCA 24/7 on-site support – 3 year Warranty Support	\$66,049.00
VESTA 3 year warranty, 24/7/365/remote monitoring, system recovery, technical support services.	\$81,880.00
Subtotal Warranty & 3 Year Support Services	\$147,929.00
Total Cost Phase III	\$465,986.00
All Projects Total	\$900,296.74

10. APPENDIX 1: MOTOROLA APX CONSOLETTTE AND GTR PROPOSALS



Q4001 Unalaska
QUOTE-1467195-2AFGTR8000



Q4031 Unalaska
QU0000517

EXHIBIT “B” – CONTRACT SCHEDULE

The general contract schedule is as follows:

The Substantial Completion date is March 15, 2022, and Final Completion date is June 30, 2022.

EXHIBIT "C" – FEE SCHEDULE

EXHIBIT C - CONSULTANT FEE PROPOSAL DETAIL

CITY OF UNALASKA
DEPARTMENT OF PUBLIC WORKS
P.O. BOX 610
UNALASKA, AK 99885

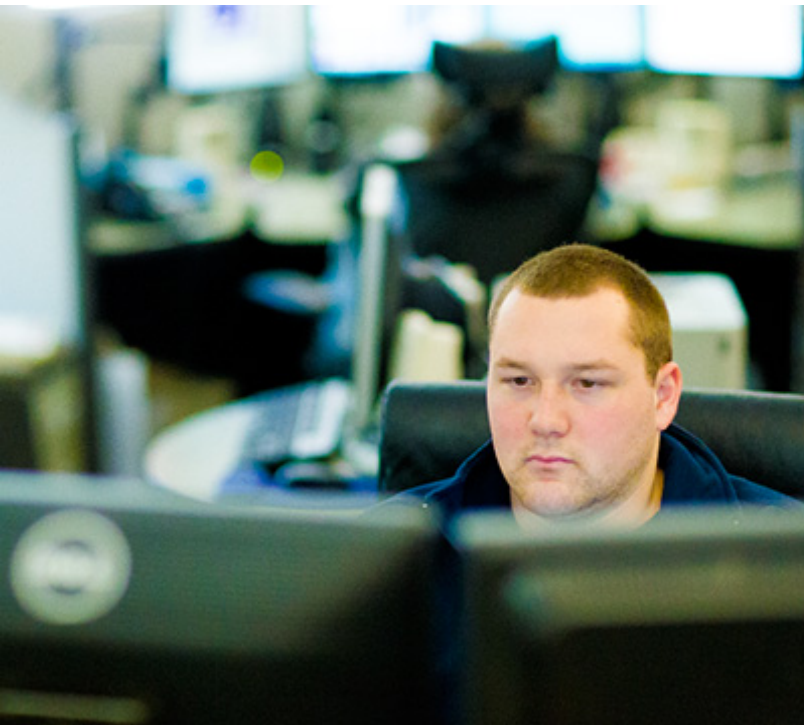
PROJECT NAME: REPEATER SITE AND RADIO UPGRADES PROJECT
DPW PROJECT NO.: 17102
CONTRACTOR: PROCOMM ALASKA LLC

INVOICE DATE: _____
FAY ESTIMATE NO.: _____
PERIOD: FROM _____ TO _____

PHASE	DESCRIPTION	QTY	U/M	UNIT PRICE	FEE TOTAL	QTY			% COMPL	\$ VALUE TO DATE	\$ REMAINING
						PREVIOUS	CURRENT	TO DATE			
1	Site Upgrades at the UDPS Facility										
	Engineering Services and Project Management	1	L/S	\$7,955.00	\$ 7,955.00				0%	\$ -	\$ 7,955.00
	Hardware related to Site Readiness - UDPS	1	L/S	\$43,382.00	\$ 43,382.00				0%	\$ -	\$ 43,382.00
	Hardware related to NetClock/Time server	1	L/S	\$11,454.00	\$ 11,454.00				0%	\$ -	\$ 11,454.00
	Hardware, Software, Services related to AVTEC Radio Console	1	L/S	\$89,681.00	\$ 89,681.00				0%	\$ -	\$ 89,681.00
	Labor: System staging in Anchorage, travel time	1	L/S	\$3,605.00	\$ 3,605.00				0%	\$ -	\$ 3,605.00
	Labor: On site installation	1	L/S	\$8,950.00	\$ 8,950.00				0%	\$ -	\$ 8,950.00
	Tower Work Services (Sub-contract)	1	L/S	\$18,550.00	\$ 18,550.00				0%	\$ -	\$ 18,550.00
	Logistics: travel, lodging, car rental, shipping, per diem	1	L/S	\$13,957.00	\$ 13,957.00				0%	\$ -	\$ 13,957.00
	FCC License application, modification (estimated)	1	L/S	\$2,500.00	\$ 2,500.00				0%	\$ -	\$ 2,500.00
	24/7/365 On Site & Remote Support - 1 year	1	L/S	\$24,033.00	\$ 24,033.00				0%	\$ -	\$ 24,033.00
	PHASE 1 TOTAL:				\$224,067.00						
2	Haystack Site Upgrade and Repeaters										
	Engineering Services and Project Management	1	L/S	\$2,975.00	\$ 2,975.00				0%	\$ -	\$ 2,975.00
	Hardware related to UDPS Facility Site Upgrade	1	L/S	\$20,452.00	\$ 20,452.00				0%	\$ -	\$ 20,452.00
	Labor: System staging in Anchorage, travel time	1	L/S	\$2,950.00	\$ 2,950.00				0%	\$ -	\$ 2,950.00
	Labor: On site installation	1	L/S	\$13,961.00	\$ 13,961.00				0%	\$ -	\$ 13,961.00
	Tower Work Services (Sub-contract)	1	L/S	\$13,750.00	\$ 13,750.00				0%	\$ -	\$ 13,750.00
	Logistics: travel, lodging, car rental, shipping, per diem	1	L/S	\$11,424.00	\$ 11,424.00				0%	\$ -	\$ 11,424.00
	PHASE 2 TOTAL:				\$ 65,512.00						
3	Vesta E911										
	Engineering Services and Project Management	1	L/S	\$5,500.00	\$ 5,500.00				0%	\$ -	\$ 5,500.00
	Hardware: Vesta equipment and misc. hardware	1	L/S	\$179,950.00	\$ 179,950.00				0%	\$ -	\$ 179,950.00
	Labor: Project preparation and travel time	1	L/S	\$3,055.00	\$ 3,055.00				0%	\$ -	\$ 3,055.00
	Labor: Onsite System Installation, Configuration, Cutover, ATP	1	L/S	\$22,921.00	\$ 22,921.00				0%	\$ -	\$ 22,921.00
	Services and Training Related to Site Deployment by Vesta	1	L/S	\$87,069.00	\$ 87,069.00				0%	\$ -	\$ 87,069.00
	Logistics: travel, lodging, car rental, shipping, per diem	1	L/S	\$21,325.00	\$ 21,325.00				0%	\$ -	\$ 21,325.00
	24/7/365 Remote Support, Monitoring, Alerting by Vesta - 3 year	1	L/S	\$81,876.00	\$ 81,876.00				0%	\$ -	\$ 81,876.00
	23/7/365 On Site and Remote Support by PCA - 3 years	1	L/S	\$64,293.00	\$ 64,293.00				0%	\$ -	\$ 64,293.00
	PHASE 3 TOTAL:				\$465,989.00						
	PROJECT TOTAL (PHASES 1 - 3):				\$755,568.00						

APPENDIX 1 – OWNER FURNISHED MATERIALS

1. Eight each (8) Motorola APX 7500 Console Control Stations per Motorola Solutions Quote #1379980.
2. GRT8000 Base Radio and supporting items per Motorola Solutions Quote QU0000517682.
3. Existing radios and telephone system in use.



UNALASKA, CITY OF

APX Consolettes

12/03/2020

12/03/2020

UNALASKA, CITY OF
1035 E BROADWAY AVE
UNALASKA, AK 99685

RE: Motorola Quote for APX Consolettes
Dear Michael Hanson,

Motorola Solutions is pleased to present UNALASKA, CITY OF with this quote for quality communications equipment and services. The development of this quote provided us the opportunity to evaluate your requirements and propose a solution to best fulfill your communications needs.

This information is provided to assist you in your evaluation process. Our goal is to provide UNALASKA, CITY OF with the best products and services available in the communications industry. Please direct any questions to Angela Parker at aparker@procommak.com.

We thank you for the opportunity to provide you with premier communications and look forward to your review and feedback regarding this quote.

Sincerely,

Angela Parker
Inside Sales Specialist

Motorola Solutions Manufacturer's Representative

Billing Address:
 UNALASKA, CITY OF
 1035 E BROADWAY AVE
 UNALASKA, AK 99685
 US

Quote Date:12/03/2020
 Expiration Date:03/03/2021
 Quote Created By:
 Angela Parker
 Inside Sales Specialist
 aparker@procommak.com

End Customer:
 UNALASKA, CITY OF
 Michael Hanson
 mhanson@ci.unalaska.ak.us
 9075811233

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
	APX™ Consolette					
1	L37TSS9PW1AN	ALL BAND CONSOLETTTE	5	\$8,040.00	\$5,869.20	\$29,346.00
1a	GA00318AB	ADD: 5Y ESSENTIAL SERVICE	5	\$319.00	\$319.00	\$1,595.00
1b	G444AH	ADD: APX CONTROL HEAD SOFTWARE	5	\$0.00	\$0.00	\$0.00
1c	G48BB	ENH: CONVENTIONAL OPERATION APX	5	\$800.00	\$584.00	\$2,920.00
1d	G806BL	ENH: ASTRO DIGITAL CAI OP APX	5	\$515.00	\$375.95	\$1,879.75
1e	CA01598AB	ADD: AC LINE CORD US	5	\$0.00	\$0.00	\$0.00
1f	GA05507AA	DEL: DELETE 7/800MHZ BAND	5	-\$800.00	-\$584.00	-\$2,920.00
1g	GA05509AA	DEL: DELETE UHF BAND	5	-\$800.00	-\$584.00	-\$2,920.00
1h	G193AK	ADD: ADP ONLY (NON-P25 CAP COMPLIANT) (US ONLY)	5	\$0.00	\$0.00	\$0.00
1i	W382AM	ADD: CONTROL STATION DESK GCAI MIC	5	\$169.00	\$123.37	\$616.85
1j	L999AG	ADD: FULL FP W/E5/KEYPAD/ CLOCK/VU	5	\$789.00	\$575.97	\$2,879.85
2	HKN6233C	APX CONSOLETTTE RACK MOUNT KIT	5	\$200.00	\$146.00	\$730.00



Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
APX™ Consolette						
3	L37TSS9PW1AN	ALL BAND CONSOLETTTE	3	\$8,040.00	\$5,869.20	\$17,607.60
3a	GA00318AB	ADD: 5Y ESSENTIAL SERVICE	3	\$319.00	\$319.00	\$957.00
3b	G48BB	ENH: CONVENTIONAL OPERATION APX	3	\$800.00	\$584.00	\$1,752.00
3c	CA01598AB	ADD: AC LINE CORD US	3	\$0.00	\$0.00	\$0.00
3d	GA05507AA	DEL: DELETE 7/800MHZ BAND	3	-\$800.00	-\$584.00	-\$1,752.00
3e	GA05509AA	DEL: DELETE UHF BAND	3	-\$800.00	-\$584.00	-\$1,752.00
3f	L999AG	ADD: FULL FP W/E5/KEYPAD/CLOCK/VU	3	\$789.00	\$575.97	\$1,727.91
3g	G843AH	ADD: AES ENCRYPTION AND ADP	3	\$475.00	\$346.75	\$1,040.25
3h	G444AH	ADD: APX CONTROL HEAD SOFTWARE	3	\$0.00	\$0.00	\$0.00
3i	G806BL	ENH: ASTRO DIGITAL CAI OP APX	3	\$515.00	\$375.95	\$1,127.85
3j	W969BG	ADD: MULTIKEY OPERATION	3	\$330.00	\$240.90	\$722.70
3k	W382AM	ADD: CONTROL STATION DESK GCAI MIC	3	\$169.00	\$123.37	\$370.11
4	HKN6233C	APX CONSOLETTTE RACK MOUNT KIT	3	\$200.00	\$146.00	\$438.00

Grand Total
\$56,366.87(USD)
Notes:


Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.

- **PLEASE BE ADVISED:** Motorola Solutions is moving towards being more environmentally green and emailing invoices. You may receive an email invoice instead of a mailed invoice, depending on the purchase. In addition, the invoice may have a new address for submitting payments. If you have any questions or would like to change where your electronic invoices will be delivered, please contact your credit analyst or dial 800-422-4210.





Quote Number: QU0000517682

Effective: 11 DEC 2020

Effective To: 30 JUN 2021

Bill-To:

UNALASKA, CITY OF
PO BOX 370
UNALASKA, AK 99685
United States

Ultimate Destination:

UNALASKA, CITY OF
1035 E BROADWAY AVE
UNALASKA, AK 99685
United States

Attention:

Name: Michael Hanson
Phone: (907)581-1233

Sales Contact:

Name: Angela Parker
Email: aparker@procommak.com
Phone: 907-563-1176

Contract Number: NASPO ValuePoint

Freight terms: FOB Destination

Payment terms: Net 30 Due

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)TAC 1						
1a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
1b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
1c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
1d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
1e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
1f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
1g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00
2	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)TAC 2						
2a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
2b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
2c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
2d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
2e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
2f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
2g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00
3	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)TAC 3						
3a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
3b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
3c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
3d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
3e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
3f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
3g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00
4	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)Electrical						

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
4a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
4b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
4c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
4d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
4e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
4f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
4g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00
5	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)Tone						
5a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
5b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
5c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
5d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
5e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
5f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
5g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00
6	1	T7039A	GTR 8000 Base Radio	-	-	-
(Notes)Harbor						
6a	1	CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18	-	-	-
6b	1	CA01946AA	ADD: CONVENTIONAL MIXED MODE OPERATION	-	-	-
6c	1	X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00	\$5,040.00	\$5,040.00
6d	1	CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00	\$400.00	\$400.00
6e	1	CA01948AA	ADD: DIGITAL CONVENTIONAL SOFTWARE	\$12,500.00	\$10,000.00	\$10,000.00
6f	1	CA01400AA	ADD: POWER CABLE, DC	-	-	-
6g	1	X153AW	ADD: RACK MOUNT HARDWARE	\$50.00	\$40.00	\$40.00

Total Quote in USD

\$92,880.00

Q4031

PO Issued to Motorola Solutions Inc. must:

- >Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
- >Have a PO Number/Contract Number & Date
- >Identify "Motorola Solutions Inc." as the Vendor
- >Have Payment Terms or Contract Number
- >Be issued in the Legal Entity's Name
- >Include a Bill-To Address with a Contact Name and Phone Number
- >Include a Ship-To Address with a Contact Name and Phone Number
- >Include an Ultimate Address (only if different than the Ship-To)
- >Be Greater than or Equal to the Value of the Order
- >Be in a Non-Editable Format
- >Identify Tax Exemption Status (where applicable)

>Include a Signature (as Required)