

Overview

The Peacham Volunteer Fire Department is requesting bids for the purchase of portable VHF radios, mobile VHF radios, headsets and pagers to replace our current equipment. This will include all hardware, software, services, equipment, licensing and installation (as detailed herein) to provide for a complete and interoperable system of radios.

The radio hardware to be provided under this solicitation will be a combination of P-25 capable portable and mobile radios. Existing radio infrastructure to be repurposed, as detailed herein, may require additional components for necessary operational functionality and shall be the responsibility of the vendor to determine that the proffered equipment is compatible with the current communication ecosystem of the Peacham Volunteer Fire Department.

With a purchase of this dollar value the Peacham Volunteer Fire Department requires a formal bid process. Bids submitted under this solicitation shall be binding and valid for a period of 90 days from the date of submission. All bids must be submitted in a sealed envelope with "Portable and Mobile Radio Purchase" clearly printed on the outside. Envelopes should be addressed to:

Peacham Volunteer Fire Department
64 Macks Mountain Road
P.O. Box 112
Peacham, Vermont 05862-0112

Any questions or further information needed can be requested via email to msimakaski@gmail.com. Vendors are encouraged to offer suggestions for improvement beyond the equipment identified as long as they are to the benefit of the Peacham Volunteer Fire Department and clearly identified price differences are included. All formal inquiries should be written (electronically or mechanically) and responses will be provided in same manner.

Vendor may use any format to provide the bid as long as the bid is typewritten, professional, clearly delineated and easy to follow for the average reader.

The deadline for bids to be submitted will be Friday, 5 January 2024 by 3pm (EST). Bids may be delivered by hand or by mail but must be present at the deadline. Postmark date is not acceptable.

Within two business days of the posted deadline the bids shall be opened by the Fire Chief during a Grant Committee meeting. Bids shall be reviewed for acceptance, and upon approval by the Grant Committee, the successful vendor shall be notified to initiate the purchase.

The Radios to be provided in response to this solicitation are Kenwood P25 Mission Critical Viking VP6230 Series Portable Radios and Viking VM7730H Series Mobile Radios as detailed herein and which are compatible with and operable on the existing infrastructure of the Fire Department. These radios are complementary to the existing radio infrastructure and are the minimum acceptable standards for this specification and solicitation. Pagers shall be Minitor VI by Motorola. Headsets shall be as specified below.

Radios supplied under this solicitation will operate on the 136-174 MHz VHF band and be Project 25 Conventional, P25 Phase 1 and P25 Phase 2 compatible. Radios will be programmed by the awarded vendor and shall include planning and programming for each radio. We anticipate no more than 3 hours of planning time with our team and a technician from

the vendor, and an additional 3 hours of training time after the units are programmed and delivered on a separate date.

Portable and Mobile Radios shall meet the following specifications:

- Specifically Designed for Public Safety Use / Mission Critical Operational Use
- 136-174 MHz, VHF Band
- P25 Conventional
- 1,024 Channels / Talkgroups
- Mixed Protocol Operation and Mixed Protocol Zone Assignments
- Built-in GPS
- P25 Paging Encode and Decode
- Day & Night User Selectable Display Options
- Perpetual Software Licensing
- Software-based Noise Cancellation
- Must be able to operate on FM Analog protocol to interface with existing department radio equipment.

Portable Radios shall meet the following additional specifications:

- Fully Ruggedized – IP 67/68 Rating Standards and MIL-STD-810 C/D/E/F/G
- Public Safety Ergonomics – flare grip for control, large glove friendly knobs and large emergency button
- Bluetooth
- Portable Radios shall include the following accessories – unless otherwise specified herein:
 - VHF Whip Antenna
 - Li-ion 3400 mAh High Capacity Battery
 - Rapid Rate Single Unit Intelligent Charger
 - Spring action belt clip – 2.5”
 - High visibility case color
 - Full key model with numeric keypad

Item	Model Number	Quantity
PORTABLE RADIO WITH ANTENNA AND MINIMUM 3400MAH BATTERY, HI VISIBILITY COLOR	Viking VP6230	9
IP67/68 REMOTE SPEAKER MIC, HI VIS	VENDOR TO SPECIFY	12
LI-ION BATTERY, 3400MAH MINIMUM, SPARE	VENDOR TO SPECIFY	18
CHARGER, SINGLE BAY, INTELLIGENT, RAPID RATE	VENDOR TO SPECIFY	4
CHARGER, VEHICLE MOUNT, FOR 12VDC AND HIGH CAPACITY BATTERY	VENDOR TO SPECIFY	9
WALL MOUNT BRACKET FOR MULTIBAY CHARGER	VENDOR TO SPECIFY	1
CHARGER, SIX UNIT	VENDOR TO SPECIFY	1

Item	Model Number	Quantity
CHARGER POCKET	VENDOR TO SPECIFY	6
SPARE ANTENNA	VENDOR TO SPECIFY	6
PORTABLE RADIO PROGRAMMING CABLE	VENDOR TO SPECIFY	1
PORTABLE RADIO SOFTWARE, UNLIMITED LICENSE	VENDOR TO SPECIFY	1
LEATHER CASE FOR FIRE WITH D-RINGS	VENDOR TO SPECIFY	9
SHOULDER STRAP, LEATHER, HEAVY DUTY WITH ANTI SWAY STRAP	VENDOR TO SPECIFY	9
ARMADA PROGRAMMING SOFTWARE	VENDOR TO SPECIFY	1
ARMADA PROGRAMMING MANUAL	VENDOR TO SPECIFY	1
VENDOR TIME AND TRAVEL FOR INITIAL SETUP MEETING		3 HOURS IN PERSON
VENDOR TIME AND TRAVEL FOR DEPARTMENT TRAINING		3 HOURS IN PERSON
ANY ADDITIONAL CABLES, CONNECTORS AND ITEMS REQUIRED FOR A COMPLETE AND WORKING SYSTEM OF PORTABLE RADIOS. SCOPE OF SUPPLY SHALL INCLUDE ANY ADDITIONAL ITEMS LISTED IN THE WRITTEN DESCRIPTION.	VENDOR TO SPECIFY	

Mobile Radios shall meet the following additional specifications:

- Dash Mount with Mounting Bracket for four units.
- Dual Control Heads Mount Option with all Mounting Brackets and components for two (2) units (Engine, Tanker)
- Ignition Sense Operation and Cabling for all four (4) units.
- Standard and Keypad Mic for Operation and Control of Mobile Radio
- Installation of Mobile Radios – Four (4) Mobile radios supplied will be installed by the vendor in each primary response apparatus. All required components will be furnished to ensure functionality of the mobile radio upon installation including ignition sense. This also includes a compatible antenna for each unit with installation such that any penetrations do not allow moisture penetration into the opening.
- Radio power source shall be installed as per manufacturer / vehicle manufacturer direction and shall not interfere with apparatus equipment operations. Cabling and installation shall be professional, clean and aesthetic and all cabling inside the cabin shall be wrapped in appropriate vehicle loom for protection.

Item	Model Number	Quantity
SINGLE HEAD, SINGLE BAND HIGH POWERED MOBILE RADIO (FORESTRY, RESCUE)	VM7730H	2
ANTENNA, ANTENNA CABLE, POWER SOURCE AS REQUIRED	VENDOR TO SPECIFY	2
TRAVEL AND INSTALLATION OF SINGLE HEAD MOBILE RADIOS	VENDOR TO SPECIFY	
DUAL HEAD, SINGLE BAND, HIGH POWERED MOBILE RADIO (ENGINE, TANKER)	VM7730H	2
ANTENNA, ANTENNA CABLE, POWER SOURCE AS REQUIRED	VENDOR TO SPECIFY	2
EXTERNAL SPEAKER, MOUNTING, WIRING	VENDOR TO SPECIFY	4
TRAVEL AND INSTALLATION OF DUAL HEAD MOBILE RADIOS	VENDOR TO SPECIFY	
MOBILE RADIO PROGRAMMING CABLE	VENDOR TO SPECIFY	1
RADIO MOUNTING BRACKETS, IGNITION SENSE, MIC	VENDOR TO SPECIFY	
ANY ADDITIONAL CABLES, CONNECTORS AND ITEMS REQUIRED FOR A COMPLETE AND WORKING SYSTEM OF PORTABLE RADIOS. SCOPE OF SUPPLY SHALL INCLUDE ANY ADDITIONAL ITEMS LISTED IN THE WRITTEN DESCRIPTION.	VENDOR TO SPECIFY	

Pagers shall meet the following specifications:

- 5-channel model
- Wideband receiver design: Single pager covers entire VHF band.
- Up to 16 mins voice message storage
- Message management: Next/Prev, FF/RWD, DEL,
- Lock/Unlock
- Customizable alert tones and voice announcements
- Programmable alerts and vibrate profiles
- Battery level voice announcements
- IP56 for dust and water intrusion
- Location for asset tag

Item	Model Number	Quantity
PAGER WITH INTRINSICALLY SAFE LITHIUM ION BATTERY	MOTOROLA MINITOR VI	9
AMPLIFIER CHARGER KIT	VENDOR TO SPECIFY	9

Item	Model Number	Quantity
AMPLIFIER CHARGER ANTENNA	VENDOR TO SPECIFY	9
BELT CLIP	VENDOR TO SPECIFY	9
INTRINSICALLY SAFE LITHIUM ION BATTERY SPARE	VENDOR TO SPECIFY	12
PROGRAMMING KIT	VENDOR TO SPECIFY	1

Headsets shall meet the following specifications:

- Bluetooth compatible.
- Behind the head designed for use with a Cairns 1044 fire helmet.
- Microphone boom with noise cancelling technology.
- Large PTT button for use with gloves.
- Outdoor use / wet area rated.
- “Over the ear” or “on the ear” style
- Similar to Kenwood BTH-900

Item	Model Number	Quantity
BLUETOOTH HEADSET, PORTABLE COMPATIBLE, BTH-900 OR EQUAL	VENDOR TO SPECIFY	1
FIRECOMM SYSTEM FOR MOBILES / PUMP OPERATORS	VENDOR TO SPECIFY	3
WIRELESS HEADSETS FOR FIRECOMM SYSTEM	VENDOR TO SPECIFY	3
CABLES, INTERFACE, MOUNTING HOOK	VENDOR TO SPECIFY	3

Professional and Managed Services Requirements

Professional services shall be provided by the vendor and shall include:

- A primary point of contact residing within 90 miles of Peacham, Vermont.
- A smooth and seamless transition from existing radios to the new radios.
- Equipment Installation – Installation and programming of all radios, equipment and components and configuration thereof in a neat and professional manner in coordination with the Peacham Volunteer Fire Department.
- Equipment Testing – Testing of equipment post installation as part of commissioning and overall final functional acceptance testings

In responding to this RFP the solution provider shall include all hardware, software, installation and configuration services and expenses, and costs broken out separately. While all of the radios, console components, and other equipment are to be included in the total price for the system, the line item costs for all components and services (i.e. installation, configuration) shall be included as an attachment. In all cases, the vendor must list manufacturer part numbers on

the bid documents. Failure to include part numbers will result in delay of bid award and possible rejection of bid.

It is the responsibility of the vendor to determine and analyze the existing infrastructure of the Peacham Volunteer Fire Department, the capability to use existing infrastructure in the equipment proposed and the infrastructure needed to facilitate this project. The Peacham Volunteer Fire Department has attempted to provide information that may be of benefit in formulating the vendor's proposal, but it is the responsibility of the vendor to ensure their proposal is accurate, complete and capable of providing a complete and functional suite of radio communication equipment. The proposed mobile radios must be integrated with and work with the Mobile Repeater equipment installed in both the Rescue and the Engine. If the proposed mobile radios CAN NOT work with the mobile repeater systems already installed it is the responsibility of the vendor to state that plainly within the bid response, otherwise it is assumed that they are compatible.

Bidder shall warrant all equipment to be free from defects in material and workmanship, and to operate in accordance with these specifications for a period of not less than one (1) year from date of installation. The manufacturer shall offer and vendor shall provide the warranty available for the radios with a minimum three year warranty.

Products manufactured and assembled in the United States shall receive preferential consideration.

Response Format

The Peacham Volunteer Fire Department requires each vendor's proposal to include the following sections:

- Executive Summary – Description of the overall solution proposed including any items that are different from the specific radios and equipment being solicited in this RFP.
- Warranty and Maintenance – This section should include a description of radio and equipment warranties that come with a purchase as well as applicable time periods that the radios and equipment are covered under warranty.
- Vendor Qualifications – This section should include a detailed description of the vendor, the physical address of the vendor location, the number of years the vendor has been in business, and a website address.
- Bid Forms – Each vendor should submit a detailed parts list with quantity, the manufacturer part number, and a description of the part with the cost for same as previously described.
- Payment Terms – This should include a description of the vendor's standard payment terms for a project of this type. The Peacham Volunteer Fire Department reserves the right to negotiate payment terms upon contract award but generally will not issue payment for the project before the system(s) is/are received and functioning properly.
- Optional Information – This section should include any additional information pertaining to the bidder's response that was not specifically addressed in any other section.

The following is the criteria which will be utilized to weigh the lowest responsive and responsible bidder:

1. Vendor Qualifications
2. Quality and Completeness of Proposal Submitted
3. Compliance with Specification Requirements
4. Warranty, Services and Maintenance Requirements
5. Pricing of Components

The Peacham Volunteer Fire Department reserves the right to disqualify any non-compliant vendors and solutions and reserves the right to reject any and all proposals submitted.

Project Award

It is the intent of the Peacham Volunteer Fire Department to award this project to a single qualified vendor who can provide all of the required capabilities. The Peacham Volunteer Fire Department reserves the right to waive informalities and irregularities, reject any and all bids and make no award in response to this RFP in the best interest of the Department.

If an award is made as a result of this RFP, it shall be awarded to the respondent whose proposal is most advantageous to the Peacham Volunteer Fire Department with price and other factors considered.