

INVITATION TO BID
COMMUNICATION EQUIPMENT
FOR

SPOKANE REGIONAL EMERGENCY COMMUNICATIONS

DATE OF ISSUE: **October 1, 2021**

CLOSING DATE AND TIME: **October 15, 2021 at 5:00pm PST**

PROJECT DESCRIPTION: Public Safety Air to Ground Aircraft Radios

SCOPE OF WORK:

Spokane Regional Emergency Communications is announcing its intent to purchase mobile radio communication equipment as indicated in Attachment A.

This is for equipment/materials purchases only; the intent is to have all components supplied by one vendor and installed by Spokane Regional Emergency Communications' contracted service provider. The initial purchase will be for one complete radio system, with the potential for additional purchases in future years.

It shall be the responsibility of the vendor to furnish all supplies associated with the components to allow for complete installations.

INSTRUCTIONS TO VENDORS:

Interested vendors are requested to submit a proposal to provide the specified equipment.

Fill in all requested information and note an explanation if order-to-receiving timelines will be in excess of 45 days. Your proposal must be signed by an officer of your company and include the name, address, and telephone number of the vendor. In addition, provide the name of the individual who will represent the vendor and be assigned to work with Spokane Regional Emergency Communications staff.

SCHEDULE:

Spokane Regional Emergency Communications requires that the successful vendor will order components immediately upon contract issuance and that the vendor will diligently pursue acquisition of required components as bid. If a component is delayed for reasons beyond the vendors control, a brief description of the delay shall be provided to Spokane Regional Emergency Communications within 2-working days of their notification. Spokane Regional Emergency Communications will have to right to investigate and may purchase the component through a separate vendor, if available, without penalty. This RFP and the awarded vendor's proposal shall become a part of the contract.

SELECTION PROCESS:

- 1) Spokane Regional Emergency Communications will select a vendor based on price and specifications for the specified equipment.
- 2) Any exception to the specified equipment shall be noted as an exception to the quote. It shall be Spokane Regional Emergency Communications' right to accept or reject non-specified equipment, without penalty.
- 3) The awarded vendor shall demonstrate the ability to work with Spokane Regional Emergency Communications.
- 4) Bidders shall specify whether and how they meet each requirement.
- 5) Vendors must submit a written proposal by **5:00 pm October 15, 2021** to cherell.yates@srec911.org or to Spokane Regional Emergency Communications, 1620 N Rebecca St., Spokane, WA 99217. Proposals received after this time will not be accepted.
- 6) Proposals will be opened on **October 18, 2021 at 9:00am** at 1620 N. Rebecca St, Spokane, WA 99217.
- 7) Spokane Regional Emergency Communications will select a vendor with whom to negotiate based on information supplied above. Should negotiations prove unsuccessful; a second vendor will be selected and so forth as necessary. Respondents are requested to keep their proposal brief but complete. For additional information about the project, contact Bob Schwent at bob.schwent@srec911.org

LIMITATIONS:

The cost of submittal and any related expenses, including travel and presentations shall be entirely the responsibility of the vendor. Spokane Regional Emergency Communications reserves the right to reject any and all proposals.

Air to Ground Public Safety Radio

PART A - REQUIRED SPECIFICATION	MEETS SPECIFICATION Y/N	HOW ARE REQUIREMENTS MET
Radio must be type certified by the FAA for use in civilian aircraft.		
All transceivers contained in the radio must be a current model and may not be a model that the supplier has canceled, is no longer shipping, no longer offers for sale, has announced an Intent to cancel, or has announced a last order date or last ship date that is in the next 6 months.		
All repairs must be performed at a manufacturer's approved facility in the United States of America (USA). The radio must remain in the USA while in all phases of the repair or warranty process.		
The radio must have separate dedicated controls for: Volume, channel, and display brightness. All buttons or knobs must be spaced far enough apart to allow the user to differentiate the controls without looking at the radio.		
The user must be able to select a channel by scrolling through the channel numbers in numerical order, and by scrolling through the channel names in alphabetical order.		
The radio must provide a minimum of 10 user programmable quick access shortcuts for each internal transceiver (hot keys). The user must be able to assign channels to the shortcuts from the front of the radio without a requirement to use an external computer or software. The selections for these shortcuts		

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<p>must not be removed when the radio is powered off.</p>		
<p>The power control must be held for a minimum of 3 seconds to turn off the radio. When the power control is pushed, the radio must display a warning on the screen that the radio will power off.</p>		
<p>The radio must support receive and transmit in AM analog, FM analog, and P25 digital modes in the following frequency ranges: 29.7-54 MHz 108-174 MHz 380-520 MHz 698-960 MHz</p>		
<p>The radio transmit power in VHF AM shall be at least 4 watts.</p>		
<p>The radio must support connection of at least 2 external devices. These connections must support receive audio, transmit audio and PTT for each device. The radio must display receive and transmit indicators for each external device.</p>		
<p>The radio must support a relay function on all internal and external transceivers at the same time. This functionality must be provided by the radio and must not depend on an external device to provide this capability.</p>		
<p>The radio must have the capability to simulcast on all internal and external transceivers at the same time. This functionality must be provided by the radio and not depend on an external device to provide this capability.</p>		
<p>The relay and simulcast functions must be individually</p>		

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<p>controlled. The user must be able to turn on and off relay and simulcast independently. The user must be able to select what transceivers are selected for relay and simulcast independently. Selecting a transceiver for one function cannot automatically turn it on for the other function. All transceivers that are selected when using the relay or simulcast function shall display on the screen an indicator for Simulcast and/or Relay.</p>		
<p>The user must be able to talk on an individual transceiver even if that transceiver is part of the simulcast. The user must be able to quickly switch between simulcast and individual transceiver without having to disable the simulcast and the reestablish the simulcast.</p>		
<p>The radio must support, at a minimum, both ADP and AES encryption modes. Each transceiver must be capable of storing 128 encryption keys and be programmable for at least 128 Common Key Reference (CKR/SLN)s.</p>		
<p>All transceivers must support the ability to Front Panel Program (FPP) conventional channel parameters. All openings on the front of the radio for programming or other use must have a factory cover or seal. The cover or seal must be attached to the radio so that when removed from the opening it remains connected to the radio.</p>		

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<p>The radio must have a sealed resistive multi-color touchscreen display capable of displaying multiple colors at the same time. The touchscreen shall be able to be used with standard flight gloves or medical gloves. All fields on the screen shall be able to be controlled by the touchscreen or by the radio's knobs.</p>		
<p>The radio display must be sufficiently bright to provide readability in direct sunlight. The radio must power on with the brightness level at the same level as when the radio was last powered down.</p>		
<p>The user must be able to fully control the dimming and brightness of the radio lighting. The user shall be able to select any brightness value from 0% (lighting off) to 100% (full brightness).</p>		
<p>The radio must be compliant with MIL-STD-3009 for Night Vision Imaging Systems.</p>		
<p>The display must have a 170 degree viewing angle both horizontally and vertically.</p>		
<p>The radio must provide color indicators for Transmit and Receive for each transceiver. The colors must be different for Receive and Transmit.</p>		
<p>The radio shall display the channel number and name for the selected transceiver in the center of the display and the channel number shall always be</p>		

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displayed on the same line and next to the channel name.		
On the selected transceiver, the radio must display the active channel number and name, and the standby channel number and name. A flip selection must be provided to instantly switch between the active and standby channel.		
When the audio for a transceiver is muted, either by the volume knob turned to zero or by other means, the display will show an indication that the transceiver is muted.		