

**DATE:** 1/6/2022

**TO:** 911 Emergency Response Advisory Committee

**FROM:** Scott Means  
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**SUBJECT:** REQUEST FOR APPROVAL FOR FUNDING for the Dispatch-Fire Station Alerting System software, hardware, and installation costs for the City of Sparks Fire Department in an amount not to exceed \$560,000.

### **SUMMARY**

The City of Sparks Fire Department Public Safety Answering Point (PSAP) transmits audible notification alerts to responding fire station(s) during emergency fire events to inform fire staff of required resources. The fire station alerting system is at the end-of-life and is out of warranty. The City of Sparks Fire requires a new system to ensure there is a reliable enhanced communication system between dispatch and the fire stations during fire emergency calls.

### **BACKGROUND**

The City of Sparks Fire Stations are equipped with a legacy fire station-alerting system that has been at the end-of-life and out of warranty for many years. The operational abilities are also limited and do not allow dispatch and fire to have expanded communication capabilities between them such as automated triggers, multi-tones, voice messaging and soft-start alerts. The system alerts are also radio triggered only, no redundancy in alerting the station. The new system will trigger alerts primarily over our IP network that is constantly monitored and checked for continuity. In the event of a network failure or down network event, the system will fall back and transmit alerts via radio signal.

Alerting of emergency calls and the various operational needs for fire resources is critical to dispatch services. This is a primary notification system between dispatch and fire resources. The City of Reno recently conducted an exhaustive review of alternatives and recommended the PURVIS Fire Station Alerting System™ (PURVIS FSAS™) for their use. The E911 committee approved funding for that system, and TMFPD has now received funding for the same system and equipment.

The attached quotes reflect the following:

- Quote for Software, Hardware, and Installation on a 5-year warranty contract with 10% contingency: \$560,000.

### **NRS APPLICABLE**

**NRS 244A.7645** Provides approval of costs associated with maintenance, upgrade and replacement of equipment necessary for the operation of the enhanced telephone system.

### **STAKEHOLDER REVIEW(s)**

Stakeholders are City of Sparks Public Safety Dispatch, the City of Sparks Fire Department, and City of Sparks Information Technology Department.

### **PREVIOUS ACTION**

The Reno Fire Department and Truckee Meadows Fire Protection District requested funding for the same fire station alerting system, software, and equipment on September 23, 2021, and November 18, 2021. Both systems were approved for the amounts requested, which was approved for an amount not to exceed \$1,240,000 and \$1,030,000.

On October 28, 2021, the E911 committee approved a 5-year Master Plan that included planned funding of fire station alerting systems for Reno, Sparks, and Truckee Meadows Fire Protection District during FY 21/22.

### **FISCAL IMPACT**

The Enhanced 911 Fund is a special revenue fund which receives revenue pursuant to NRS 244A.7643 in the form of telephone surcharges collected to support the emergency reporting system. Budget authority exists within the E911 Fund to support the Dispatch and Fire Station Alerting System. The total cost for the system, including software, hardware, project management, training, installation, and warranty contract would not exceed \$560,000.

### **RECOMMENDATION**

It is recommended that the E911 Emergency Response Advisory Committee approve the request for funding for the Dispatch-Fire Station Alerting System software, hardware and installation costs for the City of Sparks Fire Department in an amount not to exceed \$560,000.

### **POSSIBLE MOTION**

Motion to approve funding for funding for the Dispatch-Fire Station Alerting System software, hardware and installation costs for the City of Sparks Fire Department in an amount not to exceed \$560,000 and allow the City of Sparks Fire Department to move forward with the purchase and implementation of said system.



Tax ID #: 11-2299301

Date: January 5, 2022

Quote #: PC2022-053 r1

Agency: Sparks Fire Department

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**TASK:**

The City of Sparks, NV requests the procurement and implementation of the PURVIS Fire Station Alerting System™ (PURVIS FSAS™) at the two (2) Dispatch Centers and five (5) Fire Stations for the Sparks Fire Department (SFD).

**PROJECT ASSUMPTIONS:**

\*The Fire Stations System Installation price identified herein is based upon an average per station installation cost of \$25,000. This amount was determined based on a previous installation quote from PowerComm Solutions and provided to the City of Reno for a similar system installation effort. The quote was stated in a 01/07/2021 911 Emergency Response Advisory Committee proposal. PURVIS will work with PowerComm Solutions to identify an updated quote to install the PURVIS FSAS components identified in this quote. If the revised installation quote is greater than 3% of the System Installation price identified herein, PURVIS reserves the right to revise the price and will only charge the City of Sparks the actual cost based on the updated quote.

SFD will provide a reliable IP connection from the Sparks Dispatch Center to each PURVIS FSAS Station Control Unit in each fire station.

SFD is responsible for purchasing from the CAD vendor the CAD interface from the CAD system to the PURVIS FSAS API. The cost of the CAD interface is not included in this quote.

SFD is responsible for supplying all required radio equipment and performing all necessary radio programming, configuration, etc. necessary for the proposed system.

PURVIS will connect the FSAS SCU to a dedicated SFD provided audio radio at each Fire Station.

Integration into any existing legacy devices such as house lights, gas appliance shutoff controls, bay doors, etc. is not included in this quote and will be considered out of scope.

Message Boards will be purchased and supplied by the City of Sparks. The cost of the Message Boards are not included in this quote. PURVIS will provide guidance on message board selection prior to the City's purchase to ensure compatibility with the The City will purchase the required interface from the CAD system to the PURVIS FSAS API directly from the City's CAD supplier. The cost of the CAD interface is not included in this quote.

**HARDWARE:**

Item	PURVIS Part #	Qty	Unit Price	Contract Discount (3%)	Extended Price
Central Server	315-010100-131	2	\$5,975.00	\$5,795.75	\$11,591.50
Dispatch Management (DM) Console	315-020104-131	2	\$1,795.00	\$1,741.15	\$3,482.30
Radio Interface Unit (RIU) Two (2) Audio Channel - 1U	315-320003-131-2	2	\$3,865.00	\$3,749.05	\$7,498.10
RIU to Radio Cable - 1 Ch	315-321002-131	4	\$315.00	\$305.55	\$1,222.20
Station Control Unit (SCU) - No Screen	315-030004-131-NN	5	\$17,500.00	\$16,975.00	\$84,875.00
SCU Remote Touch Screen (RTS) - 22"	315-250005-131	5	\$605.00	\$586.85	\$2,934.25
Remote Touch Screen Video Distribution - VGA TX/RX	315-250300-131	5	\$410.00	\$397.70	\$1,988.50
Vesa Mount for VGA Receiver	315-250100-131	5	\$50.00	\$48.50	\$242.50
Wall Mounting Bracket, Tilt, RTS Monitor	315-190302-131-RTS	5	\$25.00	\$24.25	\$121.25
USB Extender, 1-Port	315-250202-131	5	\$105.00	\$101.85	\$509.25
24 Port Unmanaged Network Switch	315-290005-131-LAN	5	\$225.00	\$218.25	\$1,091.25
Uninterruptible Power Supply (UPS) - 2U - Line Interactive 1500VA	315-040308-131	5	\$935.00	\$906.95	\$4,534.75
Audio/Relay Expansion Module (ARXM) 25/70v, 8 Zone/8 Relay	315-442000-131-8/8	1	\$4,275.00	\$4,146.75	\$4,146.75
Audio/Relay Expansion Module (ARXM) 25/70v, 12 Zone/8 Relay (4 Ext Day/Night Zones)	315-442000-131-12/8	5	\$4,840.00	\$4,694.80	\$23,474.00
Dorm Remote (Color)	315-410000-131- C	34	\$115.00	\$111.55	\$3,792.70
Dorm Remote Gateway (DRG) 8 port	315-400001-131-8	4	\$1,410.00	\$1,367.70	\$5,470.80
Dorm Remote Gateway (DRG) 16 port	315-400001-131-16	1	\$1,935.00	\$1,876.95	\$1,876.95

		Qty	Unit Price	Contract Discount (3%)	Extended Price
Recessed Speaker, 8" (25/70v)	315-130401-131-SO	80	\$65.00		\$5,200.00
Recessed Speaker, 8" with Red/White LED Ring (25/70v)	315-141001-131-RW	57	\$300.00	\$291.00	\$16,587.00
Recessed Speaker Mount	315-130360-131	137	\$20.00	\$19.40	\$2,657.80
Outdoor/Bay Speaker (25/70v) 15w	315-150408-131	13	\$160.00	\$155.20	\$2,017.60
Amplifier 1 Ch (25/70v) 250w	315-070304-131	5	\$1,150.00	\$1,115.50	\$5,577.50
Volume Control Switch (25/70v) 100w	315-110003-131	39	\$55.00	\$53.35	\$2,080.65
Turnout Timer 24" LED Display, 1 Line	315-210006-131-TT	9	\$425.00	\$412.25	\$3,710.25
Message Board HDMI Video Receiver	315-190400-131	15	\$100.00	\$97.00	\$1,455.00
Message Board Display Module	315-540201-131	5	\$315.00	\$305.55	\$1,527.75
8 Port Unmanaged Message Board Switch	315-290003-131-MB	5	\$95.00	\$92.15	\$460.75
Strobe Light (Red), Interior, Wall	315-260008-131-R	8	\$80.00	\$77.60	\$620.80
Camera/Doorbell	315-330001-131	5	\$1,530.00	\$1,484.10	\$7,420.50
Power Strip - Rack Mount	315-010500-131	5	\$115.00	\$111.55	\$557.75
19" Rack 18U - Wall Mount	315-380001-100	5	\$1,005.00	\$974.85	\$4,874.25
<b>TOTAL</b>					<b>\$213,443.65</b>
Sales and Use Tax					\$0.00
<b>TOTAL HARDWARE</b>					<b>\$213,443.65</b>

Hardware Prices do not include installation or any system configuration, if applicable. Any applicable manufacturer warranties will be extended to the customer.

Hardware lead time is a minimum of 12 weeks after receipt of order (ARO)

**SOFTWARE:**

Item	PURVIS Part #	Qty	Unit Price	Contract Discount (3%)	Extended Price
Central Server FSAS Software License (Perpetual)	315-990000-120	2	\$10,000.00	\$9,700.00	\$19,400.00
Central Server Database Software License (Perpetual)	315-990001-120	2	\$7,535.00	\$7,308.95	\$14,617.90
DM Console Seat License (Perpetual)	315-990100-120	2	\$1,500.00	\$1,455.00	\$2,910.00
PURVIS FSAS API License (Perpetual)	315-990200-120	2	\$5,000.00	\$4,850.00	\$9,700.00
Text-to-Speech (TTS) Voice Module Software License (Perpetual)	315-990400-120	7	\$1,410.00	\$1,367.70	\$9,573.90
Station Control Unit (SCU) FSAS Software License (Perpetual)	315-990300-120	5	\$300.00	\$291.00	\$1,455.00
<b>TOTAL</b>					<b>\$57,656.80</b>
Sales and Use Tax					\$0.00
<b>TOTAL SOFTWARE</b>					<b>\$57,656.80</b>

**FIXED PRICE SERVICES:**

Description	Unit Price	Contract Discount (3%)	Price
Implementation Services (Project Management, Configuration, Integration, Test, Installation Support, & Training)	\$75,608.00	\$73,339.76	\$73,339.76
Installation Services - Dispatch Centers	\$10,000.00	\$9,700.00	\$9,700.00
Installation Services - Fire Stations*	\$125,000.00	\$121,250.00	\$121,250.00
Freight/Shipping & Handling		\$2,140.00	\$2,140.00
1 Year Remote Warranty with 24/7/365 Support (Begins upon final system acceptance by the Sparks Fire Department)		Included	\$0.00
<b>TOTAL SERVICES</b>			<b>\$206,429.76</b>

<b>GRAND TOTAL</b>	<b>\$477,530.21</b>
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**EXTENDED WARRANTY:**

Description	Qty	Unit Price	Contract Discount (3%)	Extended Price

Annual Extended Remote Warranty with <b>24/7/365 Support</b> (Extended warranty begins 1 year after final system acceptance from the Sparks Fire Department)	4	<b>January 20, 2022 E911</b>	<b>Committee Meeting</b>
		\$20,000.00	\$19,400.00
<b>TOTAL EXTENDED WARRANTY</b>			<b>\$77,600.00</b>

**SALES AND USE TAX:** Any required sales and use tax not identified in this quote is responsibility of the quote recipient or Fire Station Alerting System end-user. PURVIS is not responsible for the collection of any required taxes and payments to any tax collection agencies.

**PAYMENT TERMS:** Net 30

**VALIDITY:** This FFP Quote is valid for 90 days

**WARRANTY:** First Year Remote Warranty & Maintenance begins upon final system acceptance by the Sparks Fire Department.

**PURVIS AGREEMENTS:** The PURVIS FSAS Standard License Agreement and the PURVIS FSAS Maintenance Agreement must be signed and returned to PURVIS Systems with any initial orders placed for the PURVIS Fire Station Alerting System.

**END-USER LICENSE/MAINTENANCE AGREEMENTS:** All purchased hardware and software resulting from this quote will be licensed, warranted and maintained under the existing PURVIS FSAS End-User License Agreement and PURVIS FSAS Warranty, Maintenance and Service Agreement - with the Sparks Fire Department.

**EXPORT CONTROL:** Products purchased or received under any resulting Sale may be subject to export control laws, restrictions, regulations, and orders of the United States. Customer agrees to comply with all applicable export laws, restrictions and regulations of the United States or foreign agencies or authorities, and shall not export, or transfer for the purpose of re-export any product to any prohibited or embargoed country or to any denied, blocked or designated person or entity as mentioned in any United States or foreign law or regulation.