

MEMORANDUM

FIRE DEPARTMENT- FIRE CHIEF

TO: Thomas Thomas, City Manager

SUBJECT: Narrowband Radios

Date: 12/5/2011

On January 1, 2013 all public safety mobile radio systems operating in the 150-512 MHz radio bands must cease operating using 25KHz (Wideband) efficiency technology, and begin operating using at least 12.5 KHz (Narrow Banding) efficiency technology. The deadline is the result of an FCC mandate to ensure more efficient use of the spectrum and greater spectrum access for public safety users.

Working with the emergency communication center (RICOMM), it was discussed to complete this process by the end of this fiscal year, March 31, 2012.

Gem Electronics is the only communication vender that has a service contract to replace and repair emergency communication equipment with the emergency communication center (RICOMM). It is imperative that the same vendor is used to comply with the FCC mandate on upgrading the fire departments radio communication capabilities.

Attached is a proposal from Gem Electronics to upgrade the Rock Island Fire Department radio system to comply with the FCC ruling.

- Gem Electronics \$19,550.00

Recommendation:

It is recommended that the City Council award the bid for purchasing new radio equipment to upgrade the Rock Island Fire Department radio system from Gems Electronics in the amount of \$19,550.00 and authorize the City Manager to execute the contract documents.

Submitted: James J Fobert, Fire Chief

Approved: Thomas Thomas, City Manager



Wireless Communications Systems

www.gemelectronics.com

400 west harlem * monmouth, illinois 61462

telephone 309-734-6949 * fax 309-734-7800

5/December/11

Harris * Kenwood * Maxon * Midland * Hytera Land Mobile Communications
Sales - Installation - Service
Systems Design for -- Automatic Vehicle Location Systems * SCADA Systems
Mobile Data Terminals * ClosedCircuitTelevision * Security Camera Systems
Spectracom Time Sync Systems * Zetron Consoles * 65 Foot Foot Bucket Truck Service

1 TK7180HK Front mount radio, VHF antenna system and \$720.00
installation into the existing console of the New Command vehicle.
This will be a second radio in that vehicle.

Equipment and installation total - \$18,935.00

6 - Reprogram the 6 satellite MASTR III receivers at their locations 15.00 \$90.00

1 - Reprogram the MASTR III Transmitter base station at it's location \$15.00

34 - Reprogram the existing TK2180, HT750 portables 15.00 \$510.00
The TK7160 radios at each of the stations will be reprogrammed at no additional cost.

FCC modification and licensing to insure FCC compliance No Charge

Proposal Total -- \$19,550.00

Kenwood Rebate, in the form of a debit card for sixteen (17) TK7180HK (\$35.00) (\$595.00)
Gem Electronics will do all the required paperwork, and on-line filing to obtain the rebate. Once the debit card is received by RIFD it can be used by the City of Rock Island, or Gem Electronics will accept that debit card, and issue a credit for the full amount of the debit card. That credit can be used by the city for future equipment purchase or services.

All radios must be delivered and invoiced to the City of Rock Island no later than 25/January/12 to qualify for the Kenwood rebate. Suggested order date would be no later than the middle of December 2011, to insure delivery to Gem Electronics, from Kenwood.

Shipping and delivery -- No Charge.

Ross Beedle

Gem Electronics.



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Jim Fobert Fire Chief
Rock Island Fire Department
Rock Island, Illinois 61201

Jeff Yerkey Asst. Chief

Chief Fobert / Asst. Chief Yerkey:

I have updated the proposal to address the requested revisions, per your email to me on 2/Dec/11

KENWOOD TK7180HK 50 watt radios for all the vehicles, as follows.

	Each	Total
12 – TK7180HK mobile radios with remote mounts for the fire vehicles Vehicles R34, E31, E32, E33, E35, T34. (one radio in each vehicle) Vehicles Amb8901, Amb8902, Amb8903, (Two radios in each vehicle) The second antenna in each ambulance is included.	800.00	\$9,600.00
9 – Removal of the existing TK730 Wideband only mobile radios and installation of nine (9) TK7180HK mobile radios in the fire and ambulance vehicles.	350.00	\$3,150.00
3 – Installation of the second TK7180HK and the second antenna system into the EMT compartment of each of the ambulances.	125.00	\$375.00
5 – Modify the TK7180HK radios and David Clark headset systems and install the Headset systems into the TK7180HK. We will need a complete David Clark headset system, from one of the vehicles to install a complete system on our bench, before installing any radios into vehicles that require the David Clark headsets. It has been noted that the David Clark headset systems and the existing TK730 radios were prone to engine noise, and alternator whine that wasn't ever completely corrected, when operated as a system. Gem Electronics will attempt to correct or lessen that impact with the TK7180HK radios, but some level of noise might still be evident in the transmit and receive signal.	470.00	\$2,350.00
4 – TK7180HK front mount mobile radios. The price includes removal of the existing wideband only radios from the four vehicles, and installation of the TK7180HK. Installation will be made using the existing roof mount antennas, and includes programming. Vehicles A/C (1200), F/M (2406), EMS (1201), Old Command (2309)	685.00	\$2,740.00