

VILLAGE OF DOWNERS GROVE
REPORT FOR THE VILLAGE COUNCIL WORKSHOP
NOVEMBER 27, 2007 AGENDA

SUBJECT:	TYPE:	SUBMITTED BY:
New Fire Communications Channel/Frequency	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">✓</div> <div> Resolution Ordinance Motion Discussion Only </div> </div>	Phil Ruscetti Fire Chief

SYNOPSIS

A motion is requested to approve the purchase of a Motorola base station transmitter/receiver and three Motorola remote receivers. This purchase will improve the emergency communication ability of the Fire Department by providing a channel that is reserved strictly for use of Downers Grove. The purchase of the Motorola equipment will be made through a State bid, and the installation will be done by United Radio Communications, Inc. of Chicago, Illinois. This company is currently on contract with the Village to maintain the existing communication systems.

STRATEGIC PLAN ALIGNMENT

The Five Year Plan and Goals for 2006-2011 identified *Exceptional Municipal Organization* and the supporting objectives of *Top Quality Core Services Responsive to Current and Future Community and Citizen Needs*.

FISCAL IMPACT

The total implementation of the new system will be carried out in three phases over three budget years.

Phase 1 – FY 2007 Budget

The Fire Department has \$25,000 currently budgeted for this purchase. The entire cost of this project for Phase 1 will be \$21,457.62:

- Purchase of a Motorola MTR 2000 VHF base station – \$5,523.03
- Three Motorola remote receivers – \$9,634.59
- Labor cost of installation of three voting receivers – \$2,100.00
- Installation of the VHF Station and Zetron console upgrade – \$4,200.00

Phase 2 and 3 – FY 2008 and FY 2009 Budgets

Phase 2 and 3 will include the purchase of additional remote receivers and associated installation costs for additional communication lines and monthly fees. The estimated cost of completing these two phases is approximately \$13,100.00 for FY 2008 and \$14,170.00 for FY 2009 for a total cost of \$27,270.00.

The system will operate as a back-up system until the third phase and all testing is complete. Currently, the Fire Department's back-up frequency is shared by over 20 other fire departments.

RECOMMENDATION

Approval on the December 4, 2007 consent agenda.

BACKGROUND

Since September 11, 2001, the Federal Communications Commission (FCC) has been taking existing radio frequencies and splitting them into multiple frequencies which provides additional communications capabilities. These "split" frequencies are called narrow band frequencies. Any agency requesting a new

or additional frequency for emergency or other purposes will be required the use narrow band frequencies. Because modern radio equipment will be the only way to use narrow band frequencies, non-narrow band frequency-compliant radios will be obsolete in the near future. The proposed Motorola base station transmitter/receiver and three Motorola remote receivers have narrow band capabilities.

The Fire Department has been adhering to a communications replacement long term plan. As early as May 2004 the Village of Downers Grove has been preparing for the narrow band requirement; the Village was granted a license to operate on a narrow band pair of frequencies for emergency radio communications at that time. The next part of the plan calls for the replacement of obsolete or outdated radio equipment.

The benefits of purchasing the narrow band frequencies-compliant technology are:

- The Village will own a stand alone fire/EMS communications network.
- The Village will be in compliance with FCC regulations utilizing a pair of narrow band frequencies.
- The system will provide better coverage than current system.
- The system will provide better quality audio to the fire units operating at emergencies.
- The VHF frequency range insures operability with other fire agencies.
- The current radio network serve as an effective back up network.
- The system will improve the quality of communication by eliminating the cross talk which occurs when numerous agencies share a frequency.
- The VOC will not have to listen to other agencies while monitoring Fire Department activity.

ATTACHMENTS

E-mail quotes from United Radio Communications, Inc.

1. Motorola MTR 2000 VHF base station
2. Three (3) Motorola remote receivers
3. Installation of three (3) voting receivers
4. Installation of VHF Station and Zetron console upgrade

Ruscetti, Philip

From: Barry Wilk [bwilk911@comcast.net]
Sent: Thursday, November 15, 2007 7:21 AM
To: Jackson, James
Cc: Rizzo, Jennifer
Subject: FD New System Transmitter (801 Site) - Proposal - MR - UPDATED 11-15-07

Importance: High

Attachments: Barry Wilk (United Radio).vcf



Barry Wilk (United
Radio).vcf ...

Jim -

United Radio Communications, Inc. acting as manufactures representative for Motorola, Inc. is please to provide the following State Contract proposal for communications equipment as described below:

Description

One (1) Motorola MTR 2000 VHF Station consisting of:

- * MTR2000 Station Chassis with Power Supply
- * VHF, 100 Watt RF Output Configuration
- * Conventional Operating Mode
- * Receive Preselector
- * VHF Duplexer
- * Spectra-Tac Voting Option
- * 46" Equipment Cabinet

State Contract Cost - \$ 5,523.03

Quote expires 1-15-08

Illinois State Contract Number: PSD4014348

The P.O. for the proposal should be made to Motorola, Inc. Motorola requires the following information to be includes on the P.O.:

- * Customer Name
- * Ship to address
- * Invoice to address
- * Terms: 30 Days
- * Signed by appropriate authority
- * A copy of your State Tax Exempt Certificate

Once the P.O. is completed, this needs to be sent to me via email (bwilk911@comcast.net) or fax (630-477-0367). The P.O. must accompany the support paperwork and order I submit electronically to Motorola as the representative.

Please feel free to contact me if you have any questions.

Thank you // Barry

Barry Wilk

Vice President

Engineering & Field Operations

United Radio Communications, Inc.

Tel: 630-240-0911

Fax: 630-477-0367

Email: bwilk911@comcast.net <mailto:bwilk911@comcast.net>

Web Site: <http://www.urci.com> <<http://www.urci.com>>

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Ruscetti, Philip

From: Barry Wilk [bwilk911@comcast.net]
 Sent: Thursday, November 15, 2007 7:16 AM
 To: Jackson, James
 Cc: Rizzo, Jennifer; Mejdrech, Daniel
 Subject: Receiver Site Quote - Moto MR - Updated 11-15-07

Attachments: Barry Wilk (United Radio).vcf



Barry Wilk (United
 Radio).vcf ...

Jim -

United Radio Communications, Inc. acting as manufactures representative for Motorola, Inc. is please to provide the following State Contract proposal for communications equipment as described below:

Description

Three (3) Motorola MTR 2000 VHF Receivers consisting of:

- * MTR2000 Station Chassis with Power Supply
- * VHF Configuration
- * Conventional Operating Mode
- * Receive Preselector
- * Battery Revert/Charger
- * Charger to Battery Cable
- * Charger to Station Cable
- * Battery Temperature Sensor
- * Spectra-Tac Voting Option
- * 30" Equipment Cabinet

State Contract Cost - \$ 9,634.59

Quote expires 1-15-08

Illinois State Contract Number: PSD4014348

The P.O. for the proposal should be made to Motorola, Inc. Motorola requires the following information to be includes on the P.O.:

- * Customer Name
- * Ship to address
- * End User Name and address
- * Invoice to address
- * Terms: 30 Days
- * Signed by appropriate authority
- * A copy of your State Tax Exempt Certificate

Once the P.O. is completed, this needs to be sent to me via email (bwilk911@comcast.net) or fax (630-477-0367). The P.O. must accompany the support paperwork and order I submit electronically to Motorola as the representative.

Please feel free to contact me if you have any questions.

Thank you // Barry

Barry Wilk

Vice President

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3

Ruscetti, Philip

From: Barry Wilk [bwilk911@comcast.net]
Sent: Thursday, November 15, 2007 7:24 AM
To: Jackson, James
Cc: Rizzo, Jennifer; Mejdrech, Daniel
Subject: FD Receiver Site Installations - UPDATED 11-15-07

Importance: High

Attachments: Barry Wilk (United Radio).vcf



Barry Wilk (United
Radio).vcf ...

Jim -

United Radio Communications, Inc. is please to provide the following proposal for installation and upgrade of equipment as described below:

Description

Installation of three (3) VHF voting receiver systems to include:

- * Back-up Batteries and interconnect cable supplies
- * Interconnect RF Cable and connectors
- * Prep of replacement VHF voting receiver equipment
- * Removal of existing FD 250 equipment @ Station 1, 3 and 5.
- * Installation of new equipment @ Station 1, 3 and 5.
- * Integration to existing AC power, telco lines and antenna systems
- * System level setting as required
- * Testing as required to ensure proper operation.

Total Project Cost - \$ 2,100.00

Valid thru 1/15/08

The P.O. for this proposal should made out to United Radio Communications. It can be sent via email (bwilk911@comcast.net) or faxed to 630-477-0367 when completed.

Please feel free to contact me if you have any questions.

Thank you // Barry

Ruscetti, Philip

From: Barry Wilk [bwilk911@comcast.net]
Sent: Thursday, November 15, 2007 7:26 AM
To: Jackson, James
Cc: Mejdrech, Daniel; Rizzo, Jennifer
Subject: FD Transmitter and Console Upgrade Proposal - UPDATED 11-15-07

Importance: High

Attachments: Barry Wilk (United Radio).vcf



Barry Wilk (United
Radio).vcf ...

Jim -

United Radio Communications, Inc. is please to provide the following proposal for installation and upgrade of equipment as described below:

Description

Installation on VHF Station and Zetron Console Upgrade to include:

- * Console Dual Channel Card
- * Console Programming and Testing
- * Prep and interfacing of VHF station to existing antenna system and console
- * Integration of main voting equipment from FD 250 to new FD channel
- * Interface to dedicated telco lines
- * System level setting as required

Total Project Cost - \$ 4,200.00

Valid thru 1/15/07

The P.O. for this proposal should made out to United Radio Communications. It can be sent via email (bwilk911@comcast.net) or faxed to 630-477-0367 when completed.

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Thank you // Barry