

060095

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda
BIDS AND PROPOSALS

TO: President and Village Board of Trustees
FROM: William T. Lichter, Village Manager
DATE: February 23, 2006 Agenda Date: March 2, 2006
TITLE: **Station Alerting System**

SUBMITTED BY: George E. Seagraves, Fire Chief

RESULTS:

Date Bids Were Published:.....Date Bidding Closed: N/A
Total Number of Bids ReceivedN/A
Total Number of Bidders Meeting Specifications ___ Yes X No
Bid Security Required ___ Yes X No
Performance Bond Required ___ Yes X No
Were Any Bids Withdrawn ___ Yes X No
Explanation..... ___ Yes ___ No
If yes, explain:
Waiver of Bids Requested? X Yes ___ No
If yes, explain: Sole source, preselected by DuComm
Award Recommended to Lowest Responsible Bidder ___ Yes ___ No
If no, explain: Did not bid

FISCAL IMPACT:

Budget estimate: \$35,600
Amount of Award: \$35,137.17

BACKGROUND/RECOMMENDATION:

Replace existing station alerting equipment with DuComm specified system that meets all standards vendor preselected by DuComm to insure that all installs are compatible and all support is possible by DuComm and DuComm vendors. Fire Department recommends the waiver of bid and the award of bid to Mercury Systems of Lombard in the amount of \$35,137.17.

Has Recommended Bidder Worked for Village Previously ___ Yes X No
If yes, was quality of work acceptable ___ Yes ___ No N/A
Was item bid in accordance with Public Act 85-1295? ___ Yes X No
Waiver of bids - Public Act 85-1295 does not apply X Yes

REVIEW (as needed):

Finance Director XX [Signature] Date _____
Village Manager XX [Signature] Date 02/23/06

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 Noon, Wednesday, prior to the Board Agenda distribution.



February 23, 2006

TO : William T. Lichter, Village Manager

FROM : George E. Seagraves, Fire Chief

RE : ALERT SYSTEM PURCHASE

Please place on the Board of Trustees' Agenda for March 2, 2006 the waiver of bid and purchase of a Station Alerting System in the amount of \$35,137.17 from Mercury Systems of Lombard, Illinois. Mercury Systems is the DuComm selected vendor for the Alert System and has performed installs of all the DuComm agencies that have converted (all but three including Lombard) to the recommended system.

The system of initiating emergency alerts to Lombard is a system that was installed 25 years ago. The system is no longer supported, is antiquated and is not compliant with any recognized standards such as NFPA 1221 and NFPA 1710. DuComm recognized the various problems with station alerting and developed a new standard that would meet all standards and meet the technological needs of the departments and DuComm. Vendor selection was conducted by DuComm.

The Lombard Fire Department sought and was awarded a Federal Emergency Management Agency (FEMA) Grant for the purchase of the Alert System for both fire stations. The Grant was in the amount of \$43,100 of which Lombard was required to provide a 10% match. Part of the Grant included 10 Alert Pagers which has been purchased in the amount of \$7,216.62. The cost of the Alert System is covered by the Grant.

The new Alert System is the largest part of the upgrade of the Fire Stations' Emergency Alert System. The speaker systems in both stations are being improved with the amplifier being replaced to meet the requirements of the new alert equipment. The speaker systems are being upgraded by S.K. Electronics of West Chicago. The remaining work, which includes new receiver antennas, whole building grounding and night light systems in the bunk room that come on with the alert, is being completed by department staff.



The quotation from Mercury Systems was reviewed by DuComm and found to be appropriate for the work required and reasonable in relationship to other fire stations within the DuComm community. The technical aspects of the quote were reviewed by Firefighter/Paramedic Brian Stuart (who has extensive radio technology expertise) and John Lozar of DuComm.

The installation will be monitored by Firefighter/Paramedic Stuart, DuComm Technicians and Len Farina, Lombard's Chief Electrical Inspector. The final payment of 70% is due upon successful completion of the "DuComm Acceptance Testing Plan".

GES:lh

Attachment - Quote



MERCURY SYSTEMS



SCHEDULE A-1

1143 North Main Street - Lombard, Illinois 60148 MAIN 630/953-3333 FAX 630/953-8978

ALERT SUB-SYSTEM EQUIPMENT & INSTALLATION

Project: Du-Comm Fire Station Alert System
 This Site: Lombard Fire Department Station 1
 Address: 50 East St. Charles Road Lombard IL 60148
 Contact: Chief George Seagraves

Qty	Unit	Description	
1	ea	Model 6 Station Transponder, No Handset, Rack Mount	
1	ea	Model 6 Rack Mounting Panel	
1	ea	Model 6 Accessory Option Connection Panel	
4	ea	Acknowledgement Button Alert Indicator Wall Plate	
4	ea	Acknowledgement Button Alert Indicator <u>Surface Mount Hardware</u>	
1	ea	Acknowledgement Button Alert Indicator Power Supply	
1	ea	Back Up Power UPS, 300Watt 5 Min.	
500	ft	Cable, Ack Button / Alert Indicator	
10	ft	Cable, Category 3 - 4 Pair	
1	ea	Equipment Cabinet, Wall or Floor 36Hx24Wx22D L253-36 Lockable	
2	ea	Shelf, Equipment, 19"W x 12"D	
1	ea	Ground Wire & Grounding Hardware Kits	
1	ea	Misc. Installation Hardware, Fasteners, Connectors,	
1	ea	System Engineering, Installation, Programming, Labeling, User Training Includes 1 Year, M-F 8:30-4:30 Equipment Warranty Project Management	
			Transponder Equipment Sub Total \$5,977.34
			Services 4,794.50

Note: **Station Alert Transponder Equipment & Installation** **\$10,771.84**

- 1.) Installation proposed M-F 9-5.
- 2.) Model 6 station transponder to be installed in proposed equipment cabinet.
- 3.) (Illuminated during alert) Acknowledgement button will be installed at the following locations:
 - 1.) Kitchen wall by Phone.
 - 2.) Apparatus Bay at administrative door egress by door controls.;
 - 3.) Apparatus Bay West side by wash dispenser.
 - 4.) Apparatus Bay rear by bunk area egress door to bay.
- 4.) Proposal provides for installation of interconnecting cable in clear and existing raceways.
- 5.) Customer to provide suitable 120 VAC power outlets where required.
- 6.) Proposed Alert Transponder Equipment to be connected to customer sound system.
- 7.) This system configured for use with leased lines. Migration to T-1, Fiber Optic OR Microwave possible.
- 8.) Proposed system equipment includes 1 year M-F 8:30 am to 4:30 pm service warranty.
- 9.) Mercury not responsible for performance of customer current sound system or acoustic properties of building.
- 10.) Changes to customer sound system or its components may result in additional charges if ordered.
- 11.) Connection of proposed equipment to customer equipment sense or switching limited to **10 ft.** from the Transponder, i.e. bunkroom light relay control, door control, gas valve control etc. Gas valve must be installed by a licensed black pipe contractor.
- 12.) Proposed sub-system to be controlled by Du-Comm Alerting Equipment (not part of this proposal).
- 13.) Proposed sub-system to be programmed to conform with Du-Comm standard protocols.
- 14.) Upon Signing of the sales and service agreement, a payment in the amount of 30% shall be due. Upon completion of the installation of this station transponder equipment portion of the project, **and upon successful completion of the "Du-Comm Acceptance Testing Plan"**, a final payment of 70% shall be due, and not contingent on the completion of other parts of the project.
- 15.) Customer is responsible for the application and cost for any permits for this project if required.

Price Validity 60 Days



SCHEDULE A-2

1143 North Main Street - Lombard, Illinois 60148 MAIN 630/953-3333 FAX 630/953-8978

ALERT SUB-SYSTEM EQUIPMENT & INSTALLATION

Project: Du-Comm Fire Station Alert System
This Site: Lombard Fire Department Station 2
Address: 2020 South Highland Ave Lombard, IL 60148
Contact: Chief George Seagraves

Qty	Unit	Description
1	ea	Model 6 Station Transponder, No Handset, Rack Mount
1	ea	Model 6 Rack Mounting Panel
1	ea	Model 6 Accessory Option Connection Panel
5	ea	Acknowledgement Button Alert Indicator Wall Plate
5	ea	Acknowledgement Button Alert Indicator Surface Mount Hardware
1	ea	Acknowledgement Button Alert Indicator Power Supply
1	ea	Back Up Power UPS, 350 Watt 5 Min.
625	ft	Cable, Ack Button / Alert Indicator
25	ft	Cable, Category 3 - 4 Pair
1	ea	Equipment Cabinet, Wall or Floor 36Hx24Wx22D L5328 Lockable
2	ea	Shelf, Equipment, 19"W x 12"D
1	ea	Ground Wire & Grounding Hardware Kits
1	ea	Misc Installation Hardware, Fasteners, Connectors,
1	ea	System Engineering, Installation, Programming, Labeling, User Training Includes 1 Year, M-F 8:30-4:30 Equipment Warranty Project Management

Transponder Equipment Sub Total \$6,248.39
Services 5,256.50

Note **Station Alert Transponder Equipment & Installation \$11,504.89**

- 1.) Installation proposed M-F 9-5.
- 2.) Model 6 station transponder to be installed in proposed equipment cabinet.
- 3.) (Illuminated during alert) Acknowledgement button will be installed at the following locations:
 - 1.) Apparatus floor South wall under phone even with door buttons
 - 2.) Apparatus Floor North Wall Right of Phone
 - 3.) Day room Egress Left of door below & right of Phone
 - 4.) Bunk Room: On wall by Light switch & thermostat
 - 5.) BunkRoom: south end by dead end
- 4.) Proposal provides for installation of interconnecting cable in clear and existing raceways.
- 5.) Customer to provide suitable 120 VAC power outlets where required.
- 6.) Proposed Alert Transponder Equipment to be connected to Existing Customer Sound System.
- 7.) This system configured for use with leased lines. Migration to T-1, Fiber Optic OR Microwave possible.
- 8.) Proposed system equipment includes 1 year M-F 8:30 am to 4:30 pm service warranty.
- 9.) Mercury not responsible for performance of customer sound system or acoustic properties of building.
- 10.) Changes to customer sound system or its components may result in additional charges if ordered.
- 11.) Connection of proposed equipment to customer equipment sense or switching limited to 10 ft. from the Transponder, i.e. bunkroom light relay control, door control, gas valve control etc. Gas valve must be installed by a Licensed black pipe contractor.
- 12.) Proposed sub-system to be controlled by Du-Comm Alerting Equipment (not part of this proposal).
- 13.) Proposed sub-system to be programmed to conform with Du-Comm standard protocols.
- 14.) Upon Signing of the sales and service agreement, a payment in the amount of 30% shall be due. Upon completion of the installation of this station transponder equipment portion of the project, **and upon successful completion of the "Du-Comm Acceptance Testing Plan",** a final payment of 70% shall be due, and not contingent on the completion of other parts of the project.
- 15.) Customer is responsible for the application and cost for any permits for this project if required.

Price Validity 60 Days



1143 North Main Street - Lombard, Illinois 60148 630/953-3333 Fax 630/953-8978

**Du-Comm Fire Alerting System
Radio Linking Equipment**

Project: Du-Comm Fire Station Alerting Project: Station Radio Link
This Site: Lombard Fire Department Station 2
Address: 2020 South Highland Ave Lombard, IL 60148
Contact: Chief George Seagraves

Qty	Unit	Description	
		220 MHz Linking Transceiver	
1	ea	220 MHz SSB Radio Transceiver Unit.	
1	ea	Data Board Modification Kit (data)	
1	ea	Power Supply 120 VAC 13.6 Vdc.10 A. Switching	
1	ea	Rack Mount Package	
1	ea	UPS Power unit (upgrade to 1024 watt unit)	
1	ea	Interface // Program and Terminate Equipment for Application.	
		Antenna & support equipment	
1	ea	Fiberglass Omni 220Mhz Antenna	
0	ea	Fiberglass Omni 154Mhz Antenna	
1	ea	HD Antenna Mounting Bracket	
1	ea	Wall Mount - 24" clearance w /hew	
1	ea	Antenna Mast	
1	ea	Mounting Clamps	
38	ft	Cable: LDF4-50A 1/2" Foam Helix (1- 38' run)	
1	ea	Connectors N Female Captive (L4PNF-C)	
1	ea	Connectors N Male Captive (L4PNM-RC)	
1	ea	Jumper: low Loss Antenna Cable from Suppressor to Radio Receiver U	
1	ea	Lightning Arrestor; In-line/ N M to N F	
1	ea	Grounding Bar for Communications Room Equipment.(1/4 x-2 x 12)Harç	
0	ea	Grounding Rod 8 Feet Copper Clad / Steel	
1	ea	Cable Hangar	
2	ea	Cable Weather Proof Kit	
1	ea	Misc. Hardware	
2	ea	Cable Grounding Hardware Kits	
0	ea	Antenna Grounding	
1	ea	Install // 220 MHz VHF Radio Antenna: Cable:	
		Equipment Subtotal	2,626.13
		labor Services	3,663.02
		Proposal Total	6,289.15

Note:

- 1.) Proposal provides for installation of interconnecting cable in clear and existing raceways.
- 2.) Customer to provide suitable 120 VAC power outlets where required.
- 3.) Proposed Linking Receiver Equipment to be connected to customers existing sound system.
- 4.) This system configured for use with leased lines. migration to T-1, fiber optic or microwave possible.
- 5.) Proposed system equipment includes 1 year M-F 8:30 am to 4:30 pm service warranty.
- 6.) Mercury not responsible for performance of customer sound system or acoustic properties of building.
- 7.) Changes to customer sound system or its components may result in additional charges if ordered.
- 8.) Connection of proposed equipment to customer equipment sense or switching limited to 10 ft. from the Transponder, i.e. bunkroom light relay control, door control etc.
- 9.) Proposed sub-system to be controlled by Du-Comm Alerting Equipment (not part of this proposal).
- 10.) Proposed sub-system to be programmed to conform with Du-Comm standard protocols.
- 11.) Upon Signing of the sales and service agreement, a payment in the amount of 30% shall be due. Upon completion of the installation of this radio linking equipment portion of the project, and upon successful completion of the "Du-Comm Acceptance Testing Plan", a final payment of 70% shall be due, and not contingent on the completion of other parts of the project.
- 12.) Customer is responsible for the application and cost for any permits for this project if required.

Proposal Validity 60 Days