

## Exhibit A - Specifications

**PURPOSE.** This RFP is for the purchase and installation of Six (6) operational Outdoor Storm Warning Sirens. The attached specifications are being provided to potential proposers as guidelines which describe the minimum type and quality of the equipment that the City of Sugar Hill, Georgia is seeking to purchase. The Proposer must submit documentation with the RFP listing any exceptions to the specifications. It will be assumed that the Proposer will fully comply with the minimum specifications if no exceptions are submitted. Failure to comply with this provision shall be cause for rejection of the proposal.

**GENERAL.** The objective of this RFP is to provide for the procurement of a complete siren warning system capable of providing the FEMA recommended alert level for outdoor warning throughout the City. All prospective Proposers will conduct an on-site survey of the City to determine the size and locations of the storm warning sirens necessary to provide the FEMA recommended alert level for the outdoor warning of the city. The sirens, once installed, will be capable of being remotely activated by radio from a stand alone pc based weather monitoring and activation system which requires no subscriptions, dues, annual or monthly contracts. Any omission in the specifications of any item essential to the delivery of a fully operational system does not alleviate the successful Proposer from furnishing such.

Each Proposer will submit a map with their proposal showing proposed siren locations and coverage (digital topographic overviews preferred)

Based on the City's research into the different types of commercially available storm warning sirens, it has been determined that Omni-Directional, (NON Rotating) sirens with Continuous Duty Motors, battery backup, and radio control will best serve the City's needs. Proposals deviating from this type should take specific exception and be clearly marked as such or risk disqualification.

All proposals will include "turn-key" installation. This is to include 45'-50' class II wooden utility poles on which the sirens will be mounted; all necessary conduit, wire, connectors, etc.; an appropriate electrical disconnect, battery enclosure, batteries, charging circuits, chargers; all necessary labor to set the telephone poles, mount the sirens on poles, wiring, etc. All cabinets at each site will be lockable and pad-keys for all cabinets will be provided; any and all miscellaneous parts and labor necessary to create a complete and working storm warning system.

The City will provide the siren sites checked for underground lines, etc. and 230 VAC, single phase, 125 amp electrical service to the siren poles, only. The successful Proposer will meet with a representative to the city to discuss exact siren locations.

The Storm Siren System will be controlled from the PC Based Weather Monitoring and Activation System to be included within this proposal. This system must be capable of receiving data streams from the National Weather Service via EMWIN satellite and backed up by High Speed Internet. System must be capable of broadcasting activation signals to the warning sirens **automatically, without human intervention**. The system should also have the ability to text message, e-mail, fax these warnings to appropriate personnel **automatically, without human intervention** and be adaptable for use with 3<sup>rd</sup> party components (ie. Group to Call, Phone Tree etc.). All proposals will be 100% compatible with the current radio system or will include the necessary equipment and or labor to make the system 100% compatible, at the Proposer's expense.

Warranty for the proposed storm warning sirens (including all electronic parts), radios, batteries, and workmanship, will be clearly stated.

The time necessary to complete the project is of major importance to the city. From date of order, each Proposer will specify the amount of time that it will take to complete 100% of the project.

Each Proposer will submit a minimum of 3 references for similar systems installed in the last 3 years. Customer satisfaction reports will also be required.

For the purpose of system compatibility, equal or equivalent equipment or products will not be considered, and only the equipment specified and names by brand, description, and model number in this document will be considered so that technical assistance can be provided by the manufacturer and their authorized representative(s). Also, to maintain continuity and a fully operational siren system, the equipment must be interchangeable and critical spare parts must be kept on hand at all times by the maintenance contractor.

Type Siren Desired – AC/DC Electro-mechanical.

#### ITEM AND DESCRIPTION OF SIRENS AND RELATED EQUIPMENT

Item #1 - Siren

Qty: (6) Electro-mechanical, AC/DC Storm Warning Sirens

Omni-Directional – NON Rotating

Using Two, 8 HP Continuous Duty DC Motors

dB Rating At 100 Feet: 125/128

Magnetic Contactor W/NEMA 3R Enclosure (Lockable)

Optima 34U Rechargeable Batteries

Heavy Duty Battery Box (Pole Mountable and Lockable)

Power Requirement: 230 VAC, Single Phase, 125 Amp  
Telephone Pole Mounting Hardware

Item #2 - Radio Controller

Qty: (6) Radio Controlled Decoder  
Four Functions, including cancel  
Pre-Programmed  
No proprietary software will be required for reprogramming of any  
feature of said decoder  
Weatherproof Cabinet NEMA 4X (Lockable)  
Antenna  
Must enable user reprogramming of function timing without the need for  
a computer connection.

Item #3 - PC Based Weather Monitoring and Activation Control

Qty: (1) HP Pavilion A6750T Desktop PC with Windows Vista or Windows 7  
64 bit, 4 GB DDR-D – 800 MHz SDRAM, 512 NVIDIA GeForce, 500 GB  
SATA, or equivalent  
Inkjet Printer  
22" or Larger LCD Monitor with stand  
Storm Sentry Weather Monitoring Software Suite  
(Including text messaging, paging, E-mail and fax capabilities.)  
Gibson Ridge level 3 AR Radar Suite  
NWS Polygon Warning System Tracking  
Map and Message format display of Warnings  
EMWIN Satellite Dish, Receiver and software  
Suitable Radio Encoder and base station for automatic siren  
activation.

Item #4 - Utility Pole

Qty: 6) Class II Telephone Pole – 45-50 ft. AGL

Item #5 - Installation

Installation (Turn-Key)

The City of City of Sugar Hill, Georgia shall supply only the following:  
siren sites, appropriate electrical service to the siren poles, all necessary  
permits, access, traffic control and electrical meters if desired. Proposer  
will be responsible for all other aspects of the "Turn Key" installation

Item #6 - Locking Mechanisms

All necessary padlocks to secure battery boxes, radio decoders, magnetic  
contactors, rectifiers, and electric disconnects.

Item #7 - Warranty.

All siren components will be covered by a 5 year warranty. All radio decoder components will be covered by a 2 year warranty. All batteries will be covered by a 5 year pro-rated warranty. All labor/workmanship associated with the installation of the system will be covered by a 2 year warranty. Warranty periods to start upon commissioning of the system.

**DATE TO COMPLETION.** The timely completion of this project is of utmost importance to the City and be a factor in the City's decision. Completion time from date of order will be clearly stated in each bid.

**SCOPE OF WORK.** Price to supply and install a siren warning system on 45-55 foot class II wooden telephone poles. Price to include all electrical and component hookups, and run a fully operational test for acceptance. All components must be attached to the siren pole.

The scope of work specifically to include by not to be limited to: a. Contractor shall have all required permits and licenses excepted those issued by the City. Said permits shall be issued without cost or delay. b. Contractor shall coordinate all work with the City and/or property owners to minimize activities, scheduled events, and general inconvenience. c. Contractor to be responsible for calling in locations for underground utility, telephone, etc. identification.

All electrical installation (conduit, wire, fittings, etc.) will be completed in accordance with manufacturers' recommendations. Electrical power cables must run through a lockable breaker/disconnect box. A 120 VAC, 60 Hz power receptacle for maintenance tools to be supplied at each site.

All electrical wiring must be in 1 inch water tight flex or larger conduit depending on wire size, all conduits must be run along the pole and securely attached. All work must meet or exceed all applicable electrical codes for each applicator. All equipment must be grounded in accordance with applicable electrical codes, or meet and exceed the required manufacturer's recommendations.

Some or all sites will require service meters. It is the contractor's responsibility to determine which sites require meters and allow for the meter bases in the installation.

The successful Proposer will remove all dirt and other debris resulting from the installation of the storm siren system. All areas will be smoothed out, leveled and appropriate grass seed replanted.

Commissioning of the system by the contractor will be required prior to acceptance and payment.

End of Specifications