

City of Jonesboro
Invitation to Bid - Not an Order
P.O. Box 1845
515 West Washington Ave. (72401)

Purchasing Office
Bid No. 2008:18

Jonesboro, Arkansas 72403
Date May 23, 2008

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at this office until **2:00pm Thur June 12, 2008** and then publicly opened, for furnishing the supplies, materials and/or services as described below and tabulated for presentation to the City Council on n/a.

F.O.B. Jonesboro
Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City 30 days.

By: **Steve A. Kent**
Purchasing Agent
(870)932-0740

Item #	Description	Quantity	Unit	Unit Price	Amount
	<p>SCOPE:</p> <p>The City of Jonesboro is accepting bids for the following equipment. The following minimum specifications are considered necessary to perform the work required. The equipment specified, in order to establish a basis of design, performance, and quality, is based on Federal Models. Manufacturers' published literature must clearly show that the products being offered are in compliance with these specifications. All equipment furnished under this contract shall be new and manufacturer's current production model unless stated otherwise. Accessories, not specifically mentioned herein but necessary to furnish a complete unit ready for use, also shall be included. Units are to be installed by the Bidder.</p> <p><u>If any of the equipment bid varies from the specifications, such variation(s) must be listed in writing and attached as part of the bid proposal.</u> The City of Jonesboro reserves the right to waive minor variance(s) if in the opinion of the Police Department that the basic bid meets the general intent of these specifications.</p> <p>State Make and Models being bid: <u>Federal Signal 2001-130</u></p> <p>Warranty explanation <u>See Enclosed Warranty Sheet</u></p> <p>Estimated time of delivery: <u>60-90</u> days</p> <p>Bid number (2008:18) must be annotated on the outside of bidder's envelope. Bid must be signed or bid will be rejected. <u>scottt7147@aol.com</u> Email address: _____ Does bidder meet ALL specifications? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Bidder shall have and attach to this bid a copy of proof that bidder has and maintains worker's comp insurance and sufficient liability insurance. Any accidents and/or destruction of property not owned by the bidder shall be covered and/or replaced if damage occurs.</p> <p>The City of Jonesboro will supply any and all electrical that is required for installation. Bidder will supply any and all electrical from the outlet to equipment.</p> <p>Any addendum to this bid will be posted on the Purchasing web site no later than 1 week before bid opening. See page 2 for web address.</p> <p>Maintenance agreement for entire system per year: \$ <u>See Maintenance Options</u> Price shall remain firm for a 3 year period at which time the City may negotiate continuance for two (2) additional years. Please attach an expiation to explain maintenance agreement... What is covered/what is not.</p> <p style="text-align: center;">N/A _____ % N/A _____ Days</p>				

Execution of Bid

Date June 10, 2008

We, the undersigned, have read all the requirements set forth in this bid proposal including specification, instructions, conditions and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices stated.

Arkansas Use Tax Register No. 100060358 Phone # (800) 548-7229

Bidder Federal Signal Corporation Address 2645 Federal Signal Drive

By [Signature] V.P. City University Park, IL. 60466
(Person Authorized to Sign Bids) (Title)

Unsigned Bids Will Be Rejected

Bids number MUST be annotated on Bidder's envelope.
Bids are subject to rejection unless submitted on this form.
Notice to bidders: See reverse side for instructions and conditions.

CITY OF JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR CONSIDERATION OF THIS BID:

1. **SIGNATURE** - This bid must be signed with the firm name and by an authorized officer, employee, or agent.
2. **SALES OR USE TAX** - is not to be shown in the bid price (unless otherwise stated) but is to be added by the vendor to the invoice billing to the City. The City is not exempt from Arkansas State Sales & Use Tax. Although Use Tax is not included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
3. **FREIGHT & OTHER DELIVERY CHARGES** - to designated City facility in Jonesboro must be included in bid. Charges may not be added after the bid is opened.
4. **DISCOUNTS** - Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise City will deduct allowed discount when payment is made.
5. **FIRM PRICE** - All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the City or bidder.
6. **IDENTICAL BIDS** - In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between the said two or more bidders at the discretion of City.
7. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
8. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
9. **CONSTRUCTION** -
 - A. When noted, the Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A performance Bond equaling the total amount of any bid exceeding \$3,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Ark. Stat. SS51-632.SS51-565 as amended.)
10. The City reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
11. Minority Business Policy - It is the policy of the City of Jonesboro that minority business enterprises shall have the maximum opportunity to participate in the city purchasing process. Therefore, the City of Jonesboro encourages all minority businesses to compete for, win and receive contracts for goods, services, and construction. The city also encourages all companies to subcontract portions of any city contract to minority business enterprises.

INSTRUCTIONS TO BIDDERS

(PLEASE READ CAREFULLY)

1. Submit bid on bid form on reverse side of this sheet. NO Facsimiles will be accepted.
2. Address all bids to: Purchasing Agent, P.O. Box 1845, Jonesboro, Arkansas 72403-1845 and make certain to indicate identifying bid number on the outside of bidder's envelope.
3. DO NOT include Federal Excise Tax in bid. City will furnish exemption certificate.
4. State Manufacturer, Brand Name, Model, etc for each item bid on.
5. Samples of items, when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will be disposed of by City
6. Bids received after stated time will not be considered.
7. Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
8. Guarantees and warranties should be attached as a part of the bid as they may be a consideration in awarding a contract.
9. Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
10. Additional information may be obtained from the Purchasing Office.

THE CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.

Click on Purchasing at www.jonesboro.org for any additional information.

NOTE: Pricing below does not include Freight Charges. See Attached quote for Total Cost.

Specifications and bid sheet for bid:			Unit	Total
2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:				
1.	17	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3,780.	\$ 64,260.00
2.	17	Voltage Sensor Package	\$ 74.	\$ 1,258.00
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ 312.	\$ 5,304.00
4.	17	Removal of Existing Control Unit	\$ 550.	\$ 9,350.00
5.	17	Installation of 2-Way Siren Control Unit	\$ 1,650.	\$ 28,050.00
TOTAL			\$	<u>108,222.00</u>
2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren				
1.	9	Rotating Siren (130db) →	\$ 5,691.	\$ 51,219.00
2.	9	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3,780.	\$ 34,020.00
3.	9	Voltage Sensor Package	\$ 74.	\$ 666.00
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ 312.	\$ 2,808.00
5.	9	Removal of existing siren equipment	\$ 2,750.	\$ 24,750.00
6.	9	Install (Includes 50' Class II Wood Pole)	\$ 5,495.	\$ 49,455.00
TOTAL			\$	<u>162,918.00</u>
2001-130 AC Siren Additional Sites to increase coverage				
1.	12	Rotating Siren (130db) →	\$ 5,691.	\$ 68,292.00
2.	12	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3,780.	\$ 45,360.00
3.	12	Voltage Sensor Package	\$ 74.	\$ 888.00
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ 312.	\$ 3,744.00
5.	12	Install (includes 50' Class II Wood Pole)	\$ 5,495.	\$ 65,940.00
TOTAL			\$	<u>184,224.00</u>
Activation Points Encoder, Software, Installation & Training				
1.	2	FSK Encoder (Desktop or RackMount)	\$ 2,100.	\$ 4,200.00
2.	2	Installation of SS2000D Encoder	\$ 1,285.	\$ 2,570.00
3.	1	Digital Commander Software (Up to 255RTU's)	\$ 3,885.	\$ 3,885.00
4.	2	Dell Desktop PC	\$ 2,135.	\$ 4,270.00
5.	1	System Optimization for Secundare Control Point	\$ 1,679.	\$ 1,679.00
6.	1	System Optimization and Complete Training Package	\$ 3,805.	\$ 3,805.00
7.	1	Client Server Software (Internet Monitoring & activation)	\$ 2,100.	\$ 2,100.00
TOTAL			\$	<u>22,509.00</u>
GRAND TOTAL OF ALL 4 SECTIONS			\$	<u>477,873.00</u>

Freight Total of this section: \$15,815.20 (Not Included in Grand Total)

NOTE: Pricing below does not include freight charges. See attached quote for total cost.

Specifications and bid sheet for bid: Same Specs but with AC/DC operation			Unit	Total
2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:				
1.	17	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 4,410.	\$ 74,970.00
2.	17	Voltage Sensor Package	\$ 0.	\$ 0.00
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ 312.	\$ 5,304.00
4.	17	Removal of Existing Control Unit	\$ 550.	\$ 9,350.00
5.	17	Installation of 2-Way Siren Control Unit	\$ 2,349.	\$ 39,933.00
TOTAL			\$	<u>129,557.00</u>
2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren				
1.	9	Rotating Siren (130db) \longrightarrow	\$ 5,691.	\$ 51,219.00
2.	9	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 4,410.	\$ 39,690.00
3.	9	Voltage Sensor Package Transformer / Rectifier	\$ 1,190.	\$ 10,710.00
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ 312.	\$ 2,808.00
5.	9	Removal of existing siren equipment	\$ 2,750.	\$ 24,750.00
6.	9	Install (Includes 50' Class II Wood Pole)	\$ 5,887.	\$ 52,983.00
TOTAL			\$	<u>182,160.00</u>
2001-130 AC Siren Additional Sites to increase coverage				
1.	12	Rotating Siren (130db) \longrightarrow	\$ 5,691.	\$ 68,292.00
2.	12	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 4,410.	\$ 52,920.00
3.	12	Voltage Sensor Package	\$ 1,190.	\$ 14,280.00
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ 312.	\$ 3,744.00
5.	12	Install (includes 50' Class II Wood Pole)	\$ 5,877.	\$ 70,644.00
TOTAL			\$	<u>209,880.00</u>
Activation Points Encoder, Software, Installation & Training				
1.	2	FSK Encoder (Desktop or RackMount)	\$ 2,100.	\$ 4,200.00
2.	2	Installation of SS2000D Encoder	\$ 1,285.	\$ 2,570.00
3.	1	Digital Commander Software (Up to 255RTU's)	\$ 3,885.	\$ 3,885.00
4.	2	Dell Desktop PC	\$ 2,135.	\$ 4,270.00
5.	1	System Optimization for Secundare Control Point	\$ 1,679.	\$ 1,679.00
6.	1	System Optimization and Complete Training Package	\$ 3,805.	\$ 3,805.00
7.	1	Client Server Software (Internet Monitoring & activation)	\$ 2,100.	\$ 2,100.00
TOTAL			\$	<u>22,509.00</u>
GRAND TOTAL OF ALL 4 SECTIONS			\$	<u>544,106.00</u>

Freight total of this section: \$19,263.00 (Not Included in Grand Total)

City of Jonesboro
Purchasing Department
515 West Washington Ave.
Jonesboro, AR. 72401

June 10, 2008

Federal Signal and DH Marketing appreciate the opportunity to provide you with a response to your Bid # 2008:18 Outdoor Warning Siren System Upgrade and Expansion.

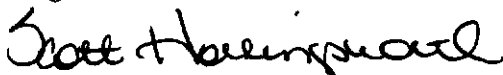
We have proposed a complete upgrade to your existing Federal Signal 2001 Sirens with 2-way status reporting controls, as well as an option to upgrade your system to AC/DC operation. Also proposed are replacement sirens for you existing ACA and Sentry Sirens, which will be replaced by the 2001-130 Siren, which has a sound output of 130db, providing over 6,300' radius coverage.

Included in this proposal is activation equipment for two (2) locations, including encoders, software, PC's and training. Additional activation can be provided by the proposed Client Server Software, which will allow for activation from any PC with an internet connection.

Purchasing directly from the manufacturer, allows you access to factory turnkey installation, training and service. Purchasing from a two-way radio shop or a reseller, takes the responsibility for the system off of the factory, and puts it in the hands of the reseller.

As your longtime supplier of Community Warning equipment, Federal Signal looks forward to the opportunity to provide turnkey equipment and service to the City of Jonesboro.

Regards,



Scott Hollingsworth
Sales Representative
Federal Signal Corporation
D H Marketing
P.O. Box 5680
Lago Vista, Texas 78645
(800) 966-3357 x703
(512) 267-7760 - Fax

BID BOND

Conforms with The American Institute of
Architects, A.I.A. Document No. A-310

KNOW ALL BY THESE PRESENTS, That we, FEDERAL SIGNAL CORPORATION, FEDERAL WARNING SYSTEMS

2645 Federal Signal Drive University Park, IL 60466

as Principal, hereinafter called the Principal,

and the SAFECO INSURANCE COMPANY OF AMERICA,

of SAFECO Plaza Seattle, WA 98185,

a corporation duly organized under

the laws of the State of Washington,

as Surety, hereinafter called the Surety, are held and firmly bound unto

CITY OF JONESBORO, PURCHASING OFFICE
515 West Washington Avenue Jonesboro, AR 72401

as Obligee, hereinafter called the Obligee,

in the sum of Five percent of amount bid.

Dollars (\$ 5% of Amount Bid) , for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

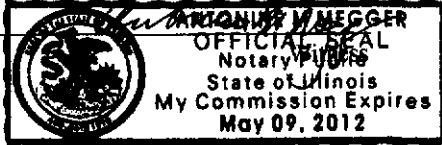
WHEREAS, the Principal has submitted a bid for

Outdoor Emergency Warning System including 18 Tornado Warning Sirens

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 6th day of June, 2008

Meg Sink



FEDERAL SIGNAL CORPORATION, FEDERAL WARNING SYSTEMS (Seal)

Principal

VP Strategic Business Development

Title

SAFECO INSURANCE COMPANY OF AMERICA

By *Linda Iser*
Linda Iser

Attorney-in-Fact

Brian O'Leary

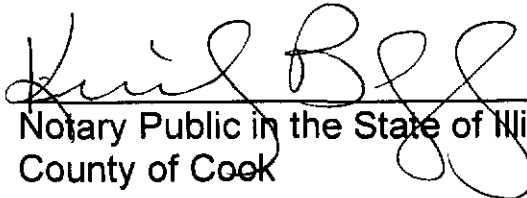
Witness

ACKNOWLEDGEMENT BY SURETY

STATE OF ILLINOIS
COUNTY OF COOK

On this 6th day of June, 2008, before me, Kimberly Bragg, a Notary Public, within and for said County and State, personally appeared Linda Iser to me personally known to be the Attorney-in-Fact of and for Safeco Insurance Company of America and acknowledged that she executed the said instrument as the free act and deed of said Company.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in the aforesaid County, the day and year in this certificate first above written.



Notary Public in the State of Illinois
County of Cook





POWER OF ATTORNEY

Safeco Insurance Company of America
General Insurance Company of America
Safeco Plaza
Seattle, WA 98185

No. 10025

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA, each a Washington corporation, does each hereby appoint

MARCIA K. CESAFSKY; JAMES A. CUTHBERTSON; KAREN DANIEL; PATRICIA M. DOYLE; ROBERT E. DUNCAN; GEOFFREY E. HEekin; LINDA ISER; THOMAS J. JOSLIN; GREGORY K. KESSLER; KATHLEEN J. MAILES; SANDRA MARTINEZ; JOELLEN M. MENDOZA; SUSAN J. PREIKSA; CRAIG T. TAGLIAMONTE; SUSAN A. WELSH; Chicago, Illinois

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA have each executed and attested these presents

this 20th day of July 2007

Handwritten signature of Stephanie Daley-Watson

Handwritten signature of Tim Mikolajewski

STEPHANIE DALEY-WATSON, SECRETARY

TIM MIKOLAJEWSKI, SENIOR VICE-PRESIDENT, SURETY

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. - FIDELITY AND SURETY BONDS ... the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business...

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

- (i) The provisions of Article V, Section 13 of the By-Laws, and
(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and
(iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Stephanie Daley-Watson, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 16th day of June 2008



Handwritten signature of Stephanie Daley-Watson

STEPHANIE DALEY-WATSON, SECRETARY

Safeco® and the Safeco logo are registered trademarks of Safeco Corporation.

ACORDDATE (MM/DD/YY)
05/14/2008

PRODUCER

AON RISK SERVICES CENTRAL, INC.
FKA AON RISK SERVICES, INC. OF ILLINOIS
AON CENTER
290 EAST RANDOLPH STREET, 19TH FLOOR
CHICAGO, IL 60601
ATTN: JEAN BELKE (312) 381-4175
D/B/A AON RISK INSURANCE SERVICES OF ILLINOIS, CA LICENSE NO.

Serial # 601280

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY A NATIONAL UNION FIRE INSURANCE COMPANY

COMPANY B AMERICAN HOME ASSURANCE CO.

COMPANY C NEW HAMPSHIRE INSURANCE CO.

COMPANY D INSURANCE COMPANY OF THE STATE OF PENNSYLVANIA

INSURED

FEDERAL SIGNAL CORPORATION
2645 FEDERAL SIGNAL DRIVE
UNIVERSITY PARK, IL 60466

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR OWNER'S & CONTRACTOR'S PROT <input checked="" type="checkbox"/> BLANKET CONTRACTUAL	GL 1595853	11/01/2007	11/01/2008	GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPYOP AGG \$ SEE BELOW PERSONAL & ADV INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (Any one fire) \$ 1,000,000 MED EXP (Any one person) \$ 10,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	CA 1607216(AOS) CA 1607217 (MA)	11/01/2007	11/01/2008	COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EACH ACCIDENT \$ AGGREGATE \$
	EXCESS LIABILITY UMBRELLA FORM OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
C C C D D D C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR PARTNER/EXECUTIVE OFFICERS ARE: <input checked="" type="checkbox"/> INCL <input type="checkbox"/> EXCL	WC 5144817 (AOS) WC 5144818 (CA) WC 5144819 (TX) WC 5144820 (FL) WC 5144821 (OR) WC 5144822 (MA, NY) WC 5144823 (LA AND ON A WA FL COVERAGE)	11/01/2007	11/01/2008	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER EL EACH ACCIDENT \$ 500,000 EL DISEASE - POLICY LIMIT \$ 500,000 EL DISEASE - EA EMPLOYEE \$ 500,000
A	OTHER PRODUCTS LIABILITY	GL 1595854	11/01/2007	11/01/2008	EACH OCCURRENCE \$3,000,000 GENERAL AGGREGATE \$8,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

[REDACTED]

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE OF AON RISK SERVICES, INC. OF IL

Aon Risk Services Central, Inc.

TERMS

- (1) **AGREEMENT AND LIMITATIONS.** The agreement between Seller and Buyer (the "sales contract") with respect to the sale of goods (the "goods") described on the other side hereof shall consist of the terms appearing hereon and on the other side hereof together with any additions or revisions of such terms mutually agreed to in writing by Seller and Buyer. Seller objects to and shall not be bound by any additional or different terms, whether printed or otherwise, in Buyer's purchase order or in any other communication from Buyer to Seller unless specifically agreed to by Seller in writing. Except as expressly stated in the sales contract, no reference to Buyer's purchase order or other communication from Buyer shall be deemed to incorporate by reference any terms appearing therein. The sales contract shall be for the benefit of Seller and Buyer and not for the benefit of any other person. Prior courses of dealing, trade usage and verbal agreements not reduced to a writing signed by Seller, to the extent they modify, add to, detract from, supplant or explain the sales contract, shall not be binding on Seller.
- (2) **TERMINATION OR MODIFICATION.** The sales contract may be modified or terminated only upon Seller's written consent except that stenographic and clerical errors are subject to correction by Seller or upon Seller's written consent. If Seller shall declare or consent to a termination of the sales contract, in whole or in part, Buyer, in the absence of contrary written agreement signed by Seller, shall pay termination charges based upon expenses and costs incurred in the production of the goods or in the performance of the services to the date such termination is accepted by Seller including, but not limited to, expenses of disposing of materials on hand or on order from suppliers and the losses resulting from such disposition, plus a reasonable profit. Notwithstanding the foregoing any goods substantially completed or services performed on or prior to such termination shall be accepted and paid for in full by Buyer.
- (3) **PRICE AND PAYMENT.** Prices are F.O.B. Destination, and the terms of payment are NET 30 days from the date of invoice. Standard Turn-key Payment terms are: 10% of Total Contract Mobilization Fee due with Order, Equipment - 30 days upon shipment; Services - Net 30 days upon Completion, billed monthly. If the sales contract is for more than one unit of goods, the goods may be shipped in a single lot or in several lots at the discretion of Seller. In such event each such shipment shall be paid for separately and Buyer shall be responsible for all transportation charges. Seller may require full or partial payment or payment guarantee in advance of shipment whenever, in its opinion, the financial condition of Buyer so warrants. Minimum billing per order is \$75.00.
- (4) **RISK OF LOSS.** The risk of loss of the goods or any part thereof shall pass to the Buyer upon delivery thereof by Seller to the carrier. Buyer shall have sole responsibility for processing and collection of any claim of loss against the carrier.
- (5) **TAXES.** Prices do not include taxes. Buyer shall pay Seller, in addition to the price of the goods, any applicable excise, sales, use or other tax (however designated) imposed upon the sale, production, delivery or use of the goods ordered to the extent required or not forbidden by law to be collected by Seller from Buyer, whether or not so collected at the time of the sale, unless valid exemption certificates acceptable to the taxing authorities are furnished to Seller before the date of invoice.
- (6) **DELIVERY.** Promises of delivery from stock are subject to prior sale. Delivery dates are not guaranteed but are estimated on the basis of immediate receipt by Seller of all information to be furnished by Buyer and the absence of delays, direct or indirect, resulting from or contributed to by circumstances beyond Seller's reasonable control. Seller shall in good faith endeavor to meet estimated delivery dates but shall not be liable to Buyer for any damages as a result of any delay caused or contributed to by circumstances beyond Seller's reasonable control.
- (7) **DEDUCTIONS AND RETURNS.** Deductions will not be honored unless covered by a credit memorandum. Goods shipped to the Buyer may be returned to Seller for credit only upon the Seller's prior written consent (such consent to be in the sole discretion of Seller) and upon terms specified by Seller, including prevailing restocking and handling charges. Buyer assumes all risk of loss for such returned goods until actual receipt thereof by Seller. Agents of Seller are not authorized to accept returned goods or to grant allowances or adjustments with respect to Buyer's account.
- (8) **INSPECTION.** Buyer shall inspect the goods immediately upon the receipt thereof. All claims for any alleged defect in Seller's performance under this sales contract, capable of discovery upon reasonable inspection, must be fully set forth in writing and received by Seller within thirty days of Buyer's receipt of the goods. Failure to make any such claim within said thirty-day period shall constitute a waiver of such claim and an irrevocable acceptance of the goods by Buyer.
- (9) **LIMITED WARRANTY.** Federal Warning Systems, Federal Signal Corporation (Federal) warrants each new product to be free from defects in material and workmanship, under normal use and service, for a period of two years on parts replacement and two years on factory-performed labor (One-year for Informers and all software products, five years on 2001SRNB & ECLIPSE Series siren head from the date of delivery to the first user-purchaser. During this warranty period, the obligation of Federal is limited to repairing or replacing, as Federal may elect, any part or parts of such product which after examination by Federal discloses to be defective in material and/or workmanship. Federal will provide warranty for any unit which is delivered, transported prepaid, to the Federal Signal factory or designated authorized warranty service center for examination and such examination reveals a defect in material and/or workmanship. This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and re-installation of the product. The Federal Signal Corporation warranty shall not apply to components or accessories that have a separate warranty by the original manufacturer, such as, but not limited to, radios and batteries. Federal will provide on-site warranty service during the first 60-days after the completion of the installation, when Federal has provided a turn-key installation including optimization and/or commissioning services. This warranty does not extend to any unit which has been subjected to abuse, misuse, improper installation or which has been inadequately maintained, nor to units which have problems relating to service or modification at any facility other than the Federal Signal factory or authorized warranty service centers. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL FEDERAL BE LIABLE FOR ANY LOSS OF PROFITS OR ANY INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY SUCH DEFECT IN MATERIAL OR WORKMANSHIP.
- (10) **REMEDIES AND LIMITATIONS OF LIABILITY.** In the event Seller is claimed to have breached any of its obligations under the sales contract, whether of warranty or otherwise, Seller may repair any defective goods, request the return of the goods and tender, at Seller's option, a replacement shipment of goods or the purchase price theretofore paid to Seller. Seller shall tender a refund of the purchase price at its option only upon actual receipt of the goods by Seller. If Seller so requests the return of the goods, the goods will be redelivered to Seller, transportation prepaid, in accordance with Seller's instructions. The remedies contained in this and the preceding paragraph constitute the sole recourse against Seller for breach of any of Seller's obligations under the sales contract, whether of warranty or otherwise. In no event shall Seller be liable for consequential damages nor shall Seller's liability on any claim for any direct, incidental, consequential or special damages arising out of or connected with the sales contract or the manufacture, sale, delivery or use of the goods exceed the purchase price of the goods. Seller shall not be liable for failure to perform its obligations under the sales contract resulting directly or indirectly from or contributed to by acts of God; acts of Buyer; civil or military authority; priorities; fires; war; riot; delays in transportation; lack of or inability to obtain raw materials, components, labor, fuel or supplies; or other circumstances beyond Seller's reasonable control, whether similar or dissimilar to the foregoing.
- (11) **PATENTS.** Seller shall hold Buyer harmless, to the extent herein provided, against any rightful claim of any third person by way of infringement of any United States Letters Patent by such goods as are of Seller's own manufacture, but if Buyer furnished specifications to Seller, Buyer shall hold Seller harmless against any infringement consisting of the use of goods manufactured by Seller as a part of any combination with goods manufactured by Buyer or others. In the event that any goods manufactured by Seller are in any suit held to constitute infringement and their use is enjoined, Seller, if unable within a reasonable time to secure for Buyer the right to continue using such goods, either by suspension of the injunction, by securing for Buyer a license, or otherwise, shall, at its own expense, either replace such goods with non-infringing goods or modify such goods so that they become non-infringing, or accept the return of the enjoined goods and refund the purchase price theretofore paid by Buyer less allowance for any period of actual use thereof. Except as in this paragraph provided, Seller makes no warranty that the goods will be delivered free of the rightful claim of any third person by way of infringement or the like and Buyer's remedies will be limited to those provided in this paragraph.
- (12) **ASSIGNMENT AND DELEGATION.** No right or interest in this sales contract shall be assigned by Buyer without Seller's prior written consent, and no delegation of any obligation owed, or of the performance of any obligation, by Buyer shall be made without Seller's prior written consent. Any attempted assignment or delegation shall be void and totally ineffective for all purposes unless made in conformity with this paragraph. Notwithstanding the foregoing, if Buyer is an authorized distributor of the goods for Seller, then Seller's obligations under paragraph 9, 10 and 11 hereof, subject to all limitations of this sales contract, shall be extended to the original purchaser of the goods from Buyer.
- (13) **SEVERABILITY.** If any term, clause or provision contained in the sales contract is declared or held invalid by a court of competent jurisdiction, such declaration or holding shall not affect the validity of any other term, clause or provision herein contained.
- (14) **INSTALLATION.** Installation shall be by Buyer unless otherwise specifically stated on the sales contract.
- (15) **GOVERNING LAW AND LIMITATIONS.** The formation and performance of the sales contract shall be governed by the laws of the State of Illinois. Whenever a term defined by the Uniform Commercial Code as Adopted in Illinois is used in these standard terms, the definition contained in said Uniform Commercial Code is to control. Any action for breach of the sales contract or any covenant or warranty contained herein must be commenced within one year after the cause of action has accrued.



FEDERAL SIGNAL
Federal Warning Systems

Limited Warranty

*The Federal Warning Systems Division of **Federal Signal Corporation** warrants each new product to be free from defects in material and workmanship, under normal use and service, for a period of two years on parts replacement and factory-performed labor (one year for Informer, EAS, and Federal software products) from the date of delivery to the first user-purchaser. Federal Warning Systems warrants every 2001 & Eclipse Siren (Top of pole only) to be free from defects in material, per our standard warranty, under normal use and service for a period of five years on parts replacement.*

During this warranty period, the obligation of Federal is limited to repairing or replacing, as Federal may elect, any part or parts of such product which after examination by Federal discloses to be defective in material and/or workmanship.

Federal will provide warranty for any unit which is delivered, transported prepaid, to the Federal factory or designated authorized warranty service center for examination and such examination reveals a defect in material and/or workmanship.

This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and re-installation of the product. The Federal Signal Corporation warranty shall not apply to components or accessories that have a separate warranty by the original manufacturer, such as, but not limited to, batteries.

Federal will provide on-site warranty service during the first 60-days after the completion of the installation, when Federal has provided a turn-key installation including optimization and/or commissioning services.

This warranty does not extend to any unit which has been subjected to abuse, misuse, improper installation or which has been inadequately maintained, nor to units which have problems related to service or modification at any facility other than Federal factory or authorized warranty service centers. Moreover, Federal shall have no liability with respect to defects arising in Products through any cause other than ordinary use (such as, for example, accident, fire, lightning, water damage, or other remaining acts of god).

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL FEDERAL BE LIABLE FOR ANY LOSS OF PROFITS OR ANY INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY SUCH DEFECT IN MATERIAL WORKMANSHIP.



FEDERAL SIGNAL Federal Warning Systems

2645 Federal Signal Drive, University Park, IL 60466

Phone: (800) 524-3021 Fax: (708) 534-4865

Website: <http://www.federalwarningsystems.com>

AC Only Pricing

(17) Upgrades (Model 2001AC Siren 1-way)

** Upgrade to 2-way Status Reporting

** Install on Existing Pole

(9) Replacement (ACA Allertor & Sentry 16V1T)

** Replace with 2001-130AC (2-Way Status)

** Includes New 50' Class II Wooden Poles

(12) Additions (2001-130 AC Sirens)

** New 2001-130AC Sirens (2-Way Status)

** Includes New 50' Class II Wooden Poles

(2) Activation Points

** Includes Digital Commander Software

** Includes New Encoders, PC's

** Includes Training, Install & Client Server Software

Advancing security and well-being.

Contact Name: Purchasing Department

Customer: City of Jonesboro

Address: 515 W. Washington Ave

City: Jonesboro

State: AR

Zip 72401

Country: USA

Phone: (870) 932-0740

Cell:

Fax:

E-mail:

Quotation No.: FWS

60908114705

Reference quote no. on your order

June 9, 2008

Item No.	Qty.	Federal Model/Part No.	Description	Weight	Kg Weight	Total Weight Lbs	Total Weight KG	Unit Price	Total
2001 Siren Upgrades (AC Only - FSK)									
1	17	ACFCTBDL	Siren Control Unit (2-Way / Low Band)					\$3,780.00	\$64,260.00
2	17	SK1-240	SENSE KIT, 1-PH, 240VAC	-	-			\$74.00	\$1,258.00
3	17	OMNI-LOW	OMNI-DIRECTIOAL ANTENNA W/ CABLE					\$242.00	\$4,114.00
4	17	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	340	153	\$70.00	\$1,190.00
5	17	TK-IO-EQUIREMOV	Removal and disposal of siren equipment from pole; does	-	-			\$550.00	\$9,350.00
6	17	TK-I-FCTCTR-CU	FCT Controller Only Install-CUSTOM	-	-			\$1,650.00	\$28,050.00
7	17	ES-FREIGHT	SHIPPING FEES	-	-			\$186.00	\$3,162.00
		Note:	Customer to provide AC power to each siren site.						
								Upgrades	\$111,384.00
Replace (9) ACA / Sentry Sirens (2001-130AC)									
1	9	2001-130	Rotating Siren (130db)	485	220	4365	1980	\$5,691.00	\$51,219.00
2	9	ACFCTBDL	Siren Control Unit (2-Way / Low Band)					\$3,780.00	\$34,020.00
3	9	SK1-240	SENSE KIT, 1-PH, 240VAC	-	-			\$74.00	\$666.00
4	9	OMNI-LOW	OMNI-DIRECTIOAL ANTENNA W/ CABLE					\$242.00	\$2,178.00
5	9	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	180	81	\$70.00	\$630.00
6	9	TK-IO-EQUIREMOV	Removal of Siren Equipment and Wooden Pole	-	-			\$2,750.00	\$24,750.00
7	9	TK-I-2001AC-Z2	Siren Install (Includes 50' Class II Wood Pole)	-	-			\$5,495.00	\$49,455.00
8	9	ES-FREIGHT	SHIPPING FEES	-	-			\$563.20	\$5,068.80
		Note:	Customer to provide AC power to each siren site.						
								Replacements	\$167,986.80
(12) 2001-130 AC Sirens (FSK / 2-Way)									
1	12	2001-130	Rotating Siren (130db)	485	220	5820	2640	\$5,691.00	\$68,292.00
2	12	ACFCTBDL	Siren Control Unit (2-Way / Low Band)					\$3,780.00	\$45,360.00
3	12	SK1-240	SENSE KIT, 1-PH, 240VAC	-	-			\$74.00	\$888.00
4	12	OMNI-LOW	OMNI-DIRECTIOAL ANTENNA W/ CABLE					\$242.00	\$2,904.00
5	12	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	240	108	\$70.00	\$840.00
6	12	TK-I-2001AC-Z2	Siren Install (Includes 50' Class II Wood Pole)	-	-			\$5,495.00	\$65,940.00
7	12	ES-FREIGHT	SHIPPING FEES	-	-			\$563.20	\$6,758.40
		Note:	Customer to provide AC power to each siren site.						
								Replacements	\$190,982.40
Activation Equipment (2 Locations)									
(Locations include Encoder, Computer, Software)									
1	2	SS2000D	FSK Encoder (Desktop or Rack Mount)	6	3		6	\$2,100.00	\$4,200.00
2	2	TK-I-ENCODER-Z2	Encoder Installation					\$1,285.00	\$2,570.00
3	1	SFCD255	Digital Commander Software (Up to 255 Sites)	12	5		5	\$3,885.00	\$3,885.00
4	2	X-PCXPPRO-D	Dell Desktop PC					\$2,135.00	\$4,270.00
5	1	TK-S-CPSYSOP	System Optimization of Activation Point					\$1,679.00	\$1,679.00
6	1	TK-S-FULOPTPKG	Complete Training Package / Activ. Pt. Optimization					\$3,805.00	\$3,805.00
7	1	SFCDCLNT	Client Server Software Package (5 Seats)	10	5		5	\$2,100.00	\$2,100.00
8	1	ES-FREIGHT	SHIPPING FEES					\$826.00	\$826.00
		Note:	Customer to provide existing base station radio, capable of operating with Digital Commander / SS2000D.						
								Activation	\$23,335.00
				Total Weight:		10,945	4,978		

Prices are firm for 120 days from the date of quotation unless shown otherwise. Upon acceptance, prices are firm for 6 months. This quotation is expressly subject to acceptance by Buyer of all Terms stated in the attached Terms document, and any exception to or modification of such Terms shall not be binding on Seller unless expressly accepted in writing by an authorized agent or Officer of Seller. Any order submitted to Seller on the basis set forth above, in whole or in part, shall constitute an acceptance by Buyer of the Terms. Any such order shall be subject to acceptance by Seller in its discretion. If the total price for the items set forth above exceeds \$50,000 then this quotation IS ONLY VALID if countersigned below by a Regional Manager of the Safety & Security Systems Group, Federal Signal Corporation. Installation is not included unless specifically quoted as a line item above. Adverse Site Conditions, including rock, caving soil conditions, contaminated soil, poor site access availability, and other circumstances which result in more than 2 hours to install a pole, will result in a \$385.00 per hour fee, plus equipment. Trenching is additional. Power Clause, bringing power to the equipment is the responsibility of the purchaser. Permit Clause, any special permits, licenses or fees will be additional. See attached Terms sheet.

Delivery: 6-8 weeks, plus installation

Freight Terms: FOB University Park, IL (Factory)

Terms: Equipment: Net 30 Days upon shipment

Services: Net 30 Days upon completion, billed monthly

Proposed By: Scott Hollingsworth

Company: Federal Signal Corporation

Address: P.O. Box 5680

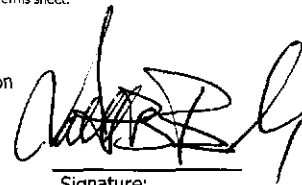
City, State, Zip: Lago Vista, Tx. 78645

Country: USA

Work Phone: (800) 966-3357

Fax: (512) 267-7760

Approved By: Chris Lopez



Signature:

Purchase order MUST be made out to:

Federal Signal Corporation, Federal Warning Systems, 2645 Federal Signal Drive, University Park, IL 60466-3195

Accepted By: _____

Signature:

Date:

2001 SIREN

The 2001-130 Siren is a high power, rotating, uni-directional siren that offers an anechoic certified signal strength of 130 dB(C) +/- 1 dB(C) at 100 feet. The high decibel output provides maximum coverage with minimum installation cost. Radio activation can further minimize installation costs by eliminating the need for leased dedicated control lines.

The siren's projector produces a 60 degree projection of sound which rotates at 3 RPM and can produce three signals options: Steady, Wail, and Fast Wail. The 2001-130 Siren will supply a minimum of 15 minutes of full power output from its batteries after AC power loss. The siren controls are available with battery operation, AC operation, and AC operation with battery back-up, One-way and Two-way radio control or landline.

Ideally suited to provide warning for hazardous weather conditions, fires, floods, chemical spills, and other types of emergencies, the 2001 Siren is a perfect choice to protect any community.

130 dB(C) OUTPUT

**DIRECTIONAL, ROTATING SIREN
FOR MAXIMUM COVERAGE**

**THREE DISTINCT WARNING
SIGNALS**

**FULL BATTERY OPERATION OR
BATTERY BACK-UP**

**MAINTENANCE-FREE SEALED
BEARING MOTORS**

WEATHER RESISTANT COATING

5 YEAR LIMITED WARRANTY



 **FEDERAL SIGNAL CORPORATION**
Federal Warning Systems

"ARE YOU PREPARED?"

2001 SPECIFICATIONS

POWER REQUIREMENTS*

Siren Motor: 48V (DC or full wave rectified AC) 110 amps. (nom.)

Rotator Motor: 48V (DC or full wave rectified AC) 1 amps. (nom.)

WIRING

Siren Motor: 2 AWG

Rotator Motor: 12 AWG

MOTOR TYPE

Siren: Series Wound DC 6 Hp

Rotator: Permanent Magnet DC 1/8 Hp

SIGNAL INFORMATION

Signal	Frequency Range	Sweep Rate
STEADY	795 Hz	N.A.
WAIL	470-705 Hz	10 sec.
FAST WAIL	600-705 Hz	3.5 sec.

Signal Duration: 3min. std. (programmable)

Signal Output (SPL): 130 dB(C) +/- 1 dB(C) at 100' (30.5 m)

Effective Range at 70dB(C): 6200ft

Rotation: 3 RPM

DIMENSIONS

Height x Width x Depth: 55" x 37" x 41"

140cm x 94cm x 10cm

WEIGHT

Shipping Weight: 450 lbs. (205 kg)

OPERATING TEMPERATURE

-30°C to +60°C**

* Power requirements refer to the power supplied by the batteries or optional AC operation through 2001TRB

** The siren can operate throughout this temperature range provided that battery temperature is maintained at -18°C or higher.

ORDER INFORMATION*

2001-130 Rotating Electro-mechanical Siren
130 dB(C) +/- 1dB(C), 48v DC, Pole Mount
Included

2001AC¹ AC operated motor control, 208 or
220/240v AC (specify voltage)
NEMA 3R control cabinet, two 48v DC
contactors and transformer/rectifier,
182 lbs. 53 kg

2001DC^{1,2} 120v AC motor control, NEMA4 control
cabinet, four chargers, two 48v DC
contactors and NEMA 3R battery
cabinet. 224 lbs. 102 kg

*2001-130 Siren requires a Federal Controller such as FC or DFCB
(See Controller Product Literature)

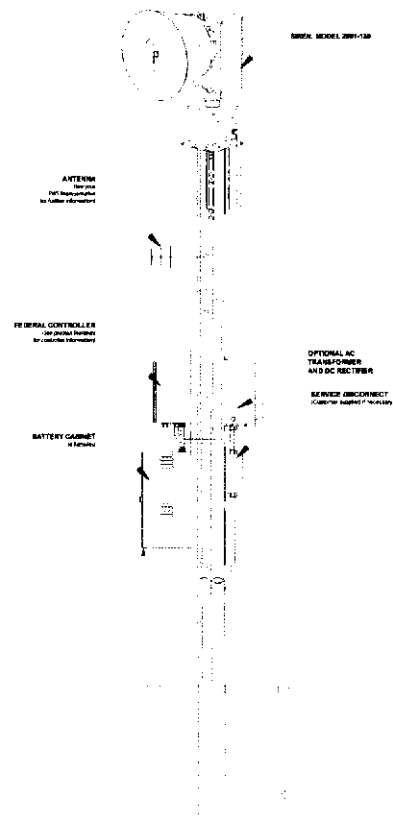
¹For use with Electro-mechanical sirens.

Antenna and cable are not included with any radio
activation control and must be purchased separately.
(See your FWS Representative).

²Batteries not included. Four Delco Voyager
Model M24MF required.

Landline Option

2001HR Rotator Holding Relay for use with
external timer



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

2645 Federal Signal Drive, University Park, IL 60466-3195

Sales: 800/548-7229 • Fax: 708/534-4855

Visit us at www.federalwarningsystems.com



9/06

ACFCTB

AC Only Two-Way Digital Controller for 2001 & Eclipse Siren Series

The ACFCTB is a two-way status monitoring siren controller for use with the 2001 and Eclipse siren series when batteries are not desirable. The controller interfaces to an off-the-shelf two-way radio transceiver and communicates to a base control via FSK signalling. In addition to FSK, the controllers will simultaneously decode any combination of Single-Tone, Two-Tone Sequential, or DTMF formats for activation. This makes the two-way controller compatible with virtually any existing siren control system.

All ACFCTB models come equipped with two (2) independent relay outputs, which can be programmed to activate with various codes. There are four (4) landline inputs and five (5) local push buttons which can be used to activate and cancel the unit. Activation codes, relay timing, and optional warning sounds are programmed into the unit through a standard RS232 serial port.

The ACFCTB contains six (6) user programmable functions in addition to the five pre-set functions: ARM, DISARM, REPORT, GROWL TEST, and MASTER RESET. The controller includes the necessary sensors and wiring to provide information on the following areas of operation: AC Power Status, Communications Status, Low Battery Voltage Indication, Siren Activation Current, Intrusion, and Siren Rotation.

A transformer/rectifier, used for primary system power is included with each model and necessary to operate the 48VDC sirens without batteries.

**AC-ONLY TWO-WAY SIREN CONTROLLER
FOR 48VDC SIRENS**

**TWO-WAY RADIO CONTROL AND STATUS
MONITORING**

FSK TWO-WAY SIGNALING FORMAT

**SIMULTANEOUS SINGLE TONE, TWO-TONE
SEQUENTIAL, AND DTMF DECODING**

INTERNAL BATTERY BACKUP FOR RTU

UL LISTED FOR GENERAL SIGNALING

“ARE YOU PREPARED?”



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

ACFCTB SPECIFICATIONS

ELECTRICAL

AC supply voltage: 115 VAC @ 4.0 amps

Current Draw: +/- 10%, 50/60 Hz,
maximum standby current

Power Supply: 8A @ 13.3 VDC

Battery Backup: 12v DC 12A/H standby

Current Draw: < .2 amps in standby

SERIAL PORTS

Serial Port Protocol: RS232C 1200, N,8,1

TRANSCEIVER SPECIFICATIONS

Programmable Frequency: Power Out and Private Line options. For further details consult Motorola product Manual.

SIGNALING FORMAT

FSK: 1200 baud, MSK modem type

Usable decode sensitivity:

10dB SINAD (min.)

DTMF: 3-12 standard DTMF characters

Two-Tone Sequential:

Frequency Range: 282 Hz - 3000 Hz (non-CTCSS)

400 Hz - 3000 Hz (CTCSS)

Tone Timing: .5 sec - .25 sec min. to 8 sec
max

Intertone Gap: 400ms (maximum)

Tone Accuracy: +/- 1.5%

Tone Spacing: 5.0% preferred, 3% min.

Single Tone:

Frequency Range: 282 Hz - 3000 Hz

Tone Timing: 0.5 sec. - 8 sec maximum

Tone Accuracy: +/- 1.5%

Tone Spacing: 5.0% preferred, 3% min.

RELAY OUTPUTS

4 relay outputs: SPST

Contact Rating: (2 relays standard, 4 relays Max.)

5A @ 28v DC

5A @ 240v AC

AUDIO OUTPUT

Output Voltage: <2V Peak to Peak

Maximum Load: 8 Ohms

Total Harmonic Distortion: <10% @ 1kHz Sinewave

ENVIRONMENTAL

Operating Temperature: -30°C to 65°C

CONTROLLER DIMENSIONS

HxWxD: 18" x 22.5" x 11"

457.2mm x 571.5mm x 279.4mm

NEMA 4X Rated

SHIPPING WEIGHT

Approx. Shipping Weight: 155 lbs. (70.5 kg)

2001TR: AC PRIMARY OPERATION

Operating Voltage: 208/220/240VAC single phase

Current Requirements: 25-30 Amps. (nominal)

Dimensions: 23"x11"x10"

(584mm x 279mm x 254mm)

Weight: 150 lbs. (68.2 kg)

ORDER INFORMATION

ACFCTB(D)^{1,2} Two-way Federal Controller

ACFCTB(D)H^{1,2} Two-way Federal Controller, High

Band 148-174 MHz

ACFCTB(D)U^{1,2} Two-way Federal Controller, UHF Band

450-470 MHz

(D)-Indicates Digital Federal Controller Two-way.

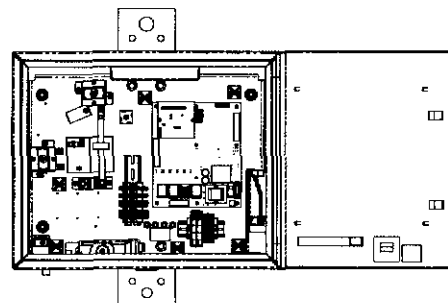
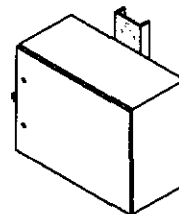
¹For use with 2001 and Eclipse siren series.

²Antenna and cable are not included with radio activation control and must be ordered separately.

Options

FSPWARE Federal Signal Programming Software
(Non-Digital Applications)

SFCDDWARE Federal Commander Digital Software
(See literature for details)



FEDERAL SIGNAL CORPORATION

Federal Warning Systems

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Sales: 800/548-7229 • Fax: 708/534-4855

Visit us at www.federalwarningsystems.com



AC/DC Pricing

(17) Upgrades (Model 2001AC Siren 1-way)

**Upgrade to AC/DC 2-way Status Reporting

**Install on Existing Pole (Includes Batteries)

(9) Replacement (ACA Allertor & Sentry 16V1T)

**Replace with 2001-130AC/DC (2-Way Status)

**Includes New 50' Class II Wood Poles & Batts

(12) Additions (2001-130 AC Sirens)

**New 2001-130AC/DC Sirens (2-Way Status)

**Includes New 50' Class II Wood Poles & Batts

(2) Activation Points

**Includes Digital Commander Software

**Includes New Encoders, PC's

**Includes Training, Install & Client Server Software



FEDERAL SIGNAL
Safety and Security Systems

Advancing security and well-being.

2645 Federal Signal Drive
University Park, Illinois 60466-3195
708-534-3400
federalsignalpublicsafety.com

Contact Name: Purchasing Department
Customer: City of Jonesboro
Address: 515 W. Washington Ave
City: Jonesboro **State:** AR **Zip:** 72401
Country: USA
Phone: (870) 932-0740
Cell:

Quotation No.: FWS
60908115355
Reference quote no. on your order

Upon receipt of your order and acceptance by Federal Signal Corporation, the equipment herein will be supplied at the quoted prices below. Delivery schedule cannot be established until radio information is supplied, if applicable.


June 9, 2008

Item No.	Qty.	Federal Model/Part No.	Description	Weight	Net Weight	Total Weight Lbs	Total Weight KG	Unit Price	Total
2001 Siren Upgrades (AC/DC - FSK)									
1	17	DCFCTBDL	DC Siren Control Unit (2-Way / Low Band)					\$4,410.00	\$74,970.00
2	17	2001TRB	TRANSFORMER / RECTIFIER	170	77	2890	1309	\$0.00	\$0.00
3	17	ES-SMV	REMOVE 120246F TRANSFORMER	-	-			\$0.00	\$0.00
4	17	OMNI-LOW	OMNI-DIRECTIONAL ANTENNA W/ CABLE					\$242.00	\$4,114.00
5	17	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	340	153	\$70.00	\$1,190.00
6	17	TK-IO-EQUIREMOV	Removal and disposal of siren equipment from pole; does	-	-			\$550.00	\$9,350.00
7	17	TK-I-DCCTR-Z2	DCFC/JV Controller Only Install w/ Batteries Zone 2	-	-			\$2,349.00	\$39,933.00
8	17	ES-FREIGHT	SHIPPING FEES	-	-			\$268.00	\$4,556.00
		Note:	Customer to provide AC power to each siren site.					Upgrades	\$134,113.00
Replace (9) ACA-Sentry Siren (2001-130AC/DC)									
1	9	2001-130	Rotating Siren (130db)	485	220	4365	1980	\$5,691.00	\$51,219.00
2	9	DCFCTBDL	DC Siren Control Unit (2-Way / Low Band)					\$4,410.00	\$39,690.00
3	9	2001TRB	TRANS. RECTIFIER, SIREN	170	77	1530	693	\$1,190.00	\$10,710.00
4	9	OMNI-LOW	OMNI-DIRECTIONAL ANTENNA W/ CABLE					\$242.00	\$2,178.00
5	9	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	180	81	\$70.00	\$630.00
6	9	TK-IO-EQUIREMOV	Remove Siren Equipment and Wooden Pole	-	-			\$2,750.00	\$24,750.00
7	9	TK-I-2001ADC-Z2	Install (Includes 50' Class II Wood Pole & Batteries)	-	-			\$5,887.00	\$52,983.00
8	9	ES-FREIGHT	SHIPPING FEES	-	-			\$661.00	\$5,949.00
		Note:	Customer to provide AC power to each siren site.					Replacements	\$188,109.00
(12) 2001-130 AC/DC Sirens (FSK / 2-Way)									
1	12	2001-130	Rotating Siren (130db)	485	220	5820	2640	\$5,691.00	\$68,292.00
2	12	DCFCTBDL	DC Siren Control Unit (2-Way / Low Band)					\$4,410.00	\$52,920.00
3	12	2001TRB	TRANS. RECTIFIER, SIREN	170	77	2040	924	\$1,190.00	\$14,280.00
4	12	OMNI-LOW	OMNI-DIRECTIONAL ANTENNA W/ CABLE					\$242.00	\$2,904.00
5	12	AMB-P	ANTENNA MOUNTING BRACKET.	20	9	240	108	\$70.00	\$840.00
6	12	TK-I-2001ADC-Z2	Install (Includes 50' Class II Wood Pole & Batteries)	-	-			\$5,887.00	\$70,644.00
7	12	ES-FREIGHT	SHIPPING FEES	-	-			\$661.00	\$7,932.00
		Note:	Customer to provide AC power to each siren site.					Additions	\$217,812.00
Activation Equipment (2 Locations) (Locations include Encoder, Computer, Software)									
1	2	SS2000D	FSK Encoder (Desktop or Rack Mount)	6	3		6	\$2,100.00	\$4,200.00
2	2	TK-I-ENCODER-Z2	Encoder Installation					\$1,285.00	\$2,570.00
3	1	SFCD255	Digital Commander Software (Up to 255 Sites)	12	5		5	\$3,885.00	\$3,885.00
4	2	X-PCXPPRO-D	Dell Desktop PC					\$2,135.00	\$4,270.00
5	1	TK-S-CPSYSOP	System Optimization of Activation Point					\$1,679.00	\$1,679.00
6	1	TK-S-FULOPTPKG	Complete Training Package / Activ. Pt. Optimization					\$3,805.00	\$3,805.00
7	1	SFCDCLNT	Client Server Software Package (5 Seats)	10	5		5	\$2,100.00	\$2,100.00
8	1	ES-FREIGHT	SHIPPING FEES	-	-			\$826.00	\$826.00
		Note:	Customer to provide existing base station radio, capable of operating with Digital Commander / SS2000D.					Activation	\$23,335.00
Total Weight:				17,405	7,904				

Prices are firm for 120 days from the date of quotation unless shown otherwise. Upon acceptance, prices are firm for 6 months. This quotation is expressly subject to acceptance by Buyer of all Terms stated in the attached Terms document, and any exception to or modification of such Terms shall not be binding on Seller unless expressly accepted in writing by an authorized agent or Officer of Seller. Any order submitted to Seller on the basis set forth above, in whole or in part, shall constitute an acceptance by Buyer of the Terms. Any such order shall be subject to acceptance by Seller in its discretion. If the total price for the items set forth above exceeds \$50,000 then this quotation IS ONLY VALID if countersigned below by a Regional Manager of the Safety & Security Systems Group, Federal Signal Corporation. Installation is not included unless specifically quoted as a line item above. Adverse Site Conditions, including rock, caving soil conditions, contaminated soil, poor site access availability, and other circumstances which result in more than 2 hours to install a pole, will result in a \$385.00 per hour fee, plus equipment. Trenching is additional. Power Clause, bringing power to the equipment is the responsibility of the purchaser. Permit Clause, any special permits, licenses or fees will be additional. See attached Terms sheet.

Delivery: 6-8 weeks, plus installation
Freight Terms: FOB University Park, IL (Factory)
Terms: Equipment: Net 30 Days upon shipment
Services: Net 30 Days upon completion, billed monthly

Proposed By: Scott Hollingsworth
Company: Federal Signal Corporation
Address: P.O. Box 5680
City, State, Zip: Lago Vista, Tx. 78645
Country: USA
Work Phone: (800) 966-3357
Fax: (512) 267-7760
Approved By: Chris Lopez


Signature:

Purchase order MUST be made out to:
Federal Signal Corporation, Federal Warning Systems, 2645 Federal Signal Drive, University Park, IL 60466-3195

Accepted By: _____
Signature: _____ Date: _____

2001 SIREN

The 2001-130 Siren is a high power, rotating, uni-directional siren that offers an anechoic certified signal strength of 130 dB(C) +/- 1 dB(C) at 100 feet. The high decibel output provides maximum coverage with minimum installation cost. Radio activation can further minimize installation costs by eliminating the need for leased dedicated control lines.

The siren's projector produces a 60 degree projection of sound which rotates at 3 RPM and can produce three signals options: Steady, Wail, and Fast Wail. The 2001-130 Siren will supply a minimum of 15 minutes of full power output from its batteries after AC power loss. The siren controls are available with battery operation, AC operation, and AC operation with battery back-up, One-way and Two-way radio control or landline.

Ideally suited to provide warning for hazardous weather conditions, fires, floods, chemical spills, and other types of emergencies, the 2001 Siren is a perfect choice to protect any community.

130 dB(C) OUTPUT

**DIRECTIONAL, ROTATING SIREN
FOR MAXIMUM COVERAGE**

**THREE DISTINCT WARNING
SIGNALS**

**FULL BATTERY OPERATION OR
BATTERY BACK-UP**

**MAINTENANCE-FREE SEALED
BEARING MOTORS**

WEATHER RESISTANT COATING

5 YEAR LIMITED WARRANTY



 **FEDERAL SIGNAL CORPORATION**
Federal Warning Systems

"ARE YOU PREPARED?"

2001 SPECIFICATIONS

POWER REQUIREMENTS*

Siren Motor: 48V (DC or full wave rectified AC) 110 amps. (nom.)

Rotator Motor: 48V (DC or full wave rectified AC) 1 amps. (nom.)

WIRING

Siren Motor: 2 AWG

Rotator Motor: 12 AWG

MOTOR TYPE

Siren: Series Wound DC 6Hp

Rotator: Permanent Magnet DC 1/8 Hp

SIGNAL INFORMATION

Signal	Frequency Range	Sweep Rate
STEADY	795 Hz	N.A.
WAIL	470-705 Hz	10 sec.
FAST WAIL	600-705 Hz	3.5 sec.

Signal Duration: 3min. std. (programmable)

Signal Output (SPL): 130 dB(C) +/- 1 dB(C) at 100' (30.5 m)

Effective Range at 70dB(C): 6200ft

Rotation: 3 RPM

DIMENSIONS

Height x Width x Depth: 55" x 37" x 41"

140cm x 94cm x 10cm

WEIGHT

Shipping Weight: 450 lbs. (205 kg)

OPERATING TEMPERATURE

-30°C to +60°C**

* Power requirements refer to the power supplied by the batteries or optional AC operation through 2001TRB

** The siren can operate throughout this temperature range provided that battery temperature is maintained at -18°C or higher.

ORDER INFORMATION*

2001-130 Rotating Electro-mechanical Siren
130 dB(C) +/- 1dB(C), 48v DC, Pole Mount
Included

2001AC¹ AC operated motor control, 208 or
220/240v AC (specify voltage)
NEMA 3R control cabinet, two 48v DC
contactors and transformer/rectifier,
182 lbs. 53 kg

2001DC^{1,2} 120v AC motor control, NEMA4 control
cabinet, four chargers, two 48v DC
contactors and NEMA 3R battery
cabinet. 224 lbs. 102 kg

*2001-130 Siren requires a Federal Controller such as FC or DFCB
(See Controller Product Literature)

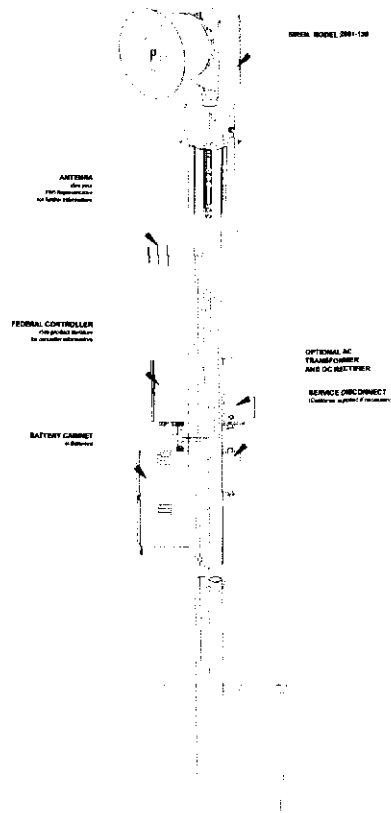
¹For use with Electro-mechanical sirens.

Antenna and cable are not included with any radio
activation control and must be purchased separately.
(See your FWS Representative).

²Batteries not included. Four Delco Voyager
Model M24MF required.

Landline Option

2001HR Rotator Holding Relay for use with
external timer



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

2645 Federal Signal Drive, University Park, IL 60466-3195

Sales: 800/548-7229 • Fax: 708/534-4855

Visit us at www.federalwarningsystems.com



9/06

DCFCTB

DC Two-Way Digital Controller for 2001 & Eclipse Siren Series

The DCFCTB is a two-way, battery-operated status monitoring siren controller for use with the 2001 and Eclipse siren series. The controller interfaces with an off-the-shelf two-way radio transceiver and communicates to the base control via FSK signaling. In addition to FSK, the controllers will simultaneously decode any combination of Single-Tone, Two-Tone Sequential, or DTMF formats for activation. This makes the two-way controller compatible with virtually any existing siren control system.

All DCFCTB models come equipped with two (2) independent relay outputs that can be programmed to activate with various codes. There are four (4) landline inputs and four (4) local push buttons for activation, plus cancel. Activation codes, relay timing, and optional warning sounds are programmed into the unit through a standard RS232 serial port or over-the-air from the central control point.

The DCFCTB offers six (6) user programmable functions in addition to the five pre-set functions: ARM, DISARM, REPORT, GROWL TEST, and MASTER RESET. The controller includes the necessary sensors and wiring to supply information on the following areas of operation: AC Power Status, Communications Status, Low Battery Voltage Indication, Siren Activation Current, Intrusion, and Siren Rotation.

**TWO-WAY SIREN CONTROLLER FOR
48VDC SIRENS**

**TWO-WAY RADIO CONTROL AND
STATUS MONITORING**

FSK TWO-WAY SIGNALING FORMAT

**SIMULTANEOUS SINGLE TONE,
TWO-TONE SEQUENTIAL, AND DTMF
DECODING**

**PUSH BUTTONS FOR LOCAL
ACTIVATION**

**UL LISTED FOR GENERAL
SIGNALING**



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Federal Warning Systems

DCFCTB SPECIFICATIONS

ELECTRICAL

AC supply voltage: 120 VAC @ 4.0 amps

Current Draw: +/- 10%, 50/60 Hz,
maximum standby current

Power Supply: 6A @ 13.3v DC

Battery Backup: 48v DC

(Four model #M24MF Delco Voyagers required)

Current Draw: < .2 amps in standby

SERIAL PORTS

Serial Port Protocol: RS232C 1200, N, 8, 1

TRANSCEIVER SPECIFICATIONS

Programmable Frequency: Power Out and Private Line options.
For further details consult the Motorola product Manual.

SIGNALING FORMAT

FSK: 1200 baud, MSK modem type
Useable decode sensitivity:
12dB SINAD (min.)

DTMF: 3-12 standard DTMF characters

Two-Tone Sequential:

Frequency Range: 282 Hz - 3000 Hz (non-CTCSS)

400 Hz - 3000 Hz (CTCSS)

Tone Timing: .5 sec - .25 sec min., 8 sec max

Intertone Gap: 400ms (maximum)

Tone Accuracy: +/- 1.5%

Tone Spacing: 5.0% preferred, 3% min.

Single Tone:

Frequency Range: 282 Hz - 3000 Hz

Tone Timing: 0.5 sec. - 8 sec maximum

Tone Accuracy: +/- 1.5%

Tone Spacing: 5.0% preferred, 3% min.

RELAY OUTPUTS

4 relay outputs: SPST

Contact Rating: (2 relays standard, 4 relays Max.)

5A @ 28v DC

5A @ 240v AC

AUDIO OUTPUT

Output Voltage: >2V Peak to Peak

Maximum Load: 8 Ohms

Total Harmonic Distortion: <10% @ 1kHz Sinewave

ENVIRONMENTAL

Operating Temperature: -30 °C to 65 °C

CONTROLLER DIMENSIONS

HxWxD: 62.5"x 23.5"x 16.94"

1588mm x 597mm x 430mm

NEMA 4X Rated

BATTERY CABINET DIMENSIONS

HxWxD: 18"x 28"x 15.19"

457mm x 711mm x 386mm

Vented NEMA 4X Rated

SHIPPING WEIGHT

Approx. Shipping Weight: 300 lbs. (136.36 kg)

2001TR: AC PRIMARY OPERATION

Operating Voltage: 208/220/240 VAC single phase

Current Requirements: 30 Amps. (approx.)

Dimensions: 23"x11"x10"

(584mm x 279mm x 254mm)

Weight: 150 lbs. (68.2 kg)

ORDER INFORMATION

DCFCTB(D)^{1,2} Two-way Federal Controller

DCFCTB(D)H^{1,2} Two-way Federal Controller, High
Band 136-174 MHz

DCFCTB(D)U^{1,2} Two-way Federal Controller, UHF Band
450-470 MHz

(D)-Indicates Digital Federal Controller Two-way.

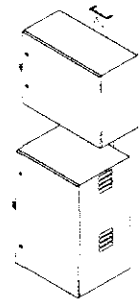
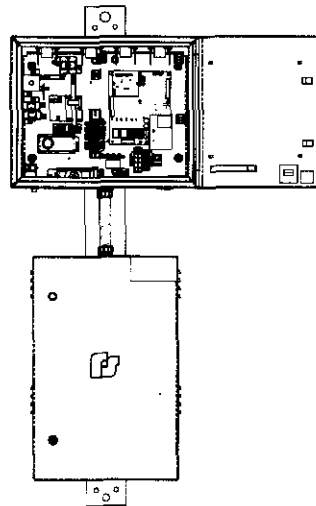
¹For use with 2001 and Eclipse siren series.

²Antenna and cable are not included with radio
activation control and must be ordered separately.

Options

FSPWARE Federal Programming Software
(Non-Digital Applications)

SFCDWARE Federal Commander Digital Software
(See literature for details)



FEDERAL SIGNAL CORPORATION

Federal Warning Systems

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7/06

Maintenance Options

Field Service Contract – 3 Business Day Response

**Cost shown is per site / per year

**Sirens and Control Points are considered sites.

**See attached details

Field Service Contract – 7 Business Day Response

**Cost shown is per site / per year

**Sirens and Control Points are considered sites.

**See attached details

Maintenance & Support Options

FS-S-RESP3DAY Field Service Contract-3 Business Day Response

\$1819/Site

1. Customer must provide remote network access to the system's control point computers to Federal Signal and our Designated Service Provider(s).
2. One (1) Business Day Response for total failure of both control points
3. Seven (3) Business Day Response time for total failure at one control point or other reported issues.
4. Federal Signal maintains a complete inventory of replacement parts that can be purchased and delivered within 1-2 business days.
5. Federal Signal's service provider will have common parts on hand, but repair completion is dependent on the nature of the issue and availability of parts.
6. Repairable components will be repaired and returned within 4 business days of shipment if shipped UPS Red or equivalent.
7. Speaker drivers, Speakers or Strobes that fail will be replaced annually, unless the RTU output has diminished by more than 20 dB.
8. Non-warranty Parts Purchase will receive a 25% discount off Manufacturer's List Price.
9. A Site is a Control Point/Base Radio or Remote Terminal Unit.

FS-S-RESP7DAY Field Service Contract-7 Business Day Response

\$1392/Site

1. Customer must provide remote network access to the system's control point computers to Federal Signal and our Designated Service Provider(s).
2. Three (3) Business Day Response for total failure of both control points
3. Seven (7) Business Day Response time for total failure at one control point or other reported issues.
4. Federal Signal maintains a complete inventory of replacement parts that can be purchased and delivered within 1-2 business days.
5. Federal Signal's service provider will have common parts on hand, but repair completion is dependent on the nature of the issue and availability of parts.
6. Repairable components will be repaired and returned within 4 business days of shipment if shipped UPS Red or equivalent.
7. Speaker drivers, Speakers or Strobes that fail will be replaced annually, unless the RTU output has diminished by more than 20 dB.
8. Non-warranty Parts Purchase will receive a 25% discount off Manufacturer's List Price.
9. A Site is a Control Point/Base Radio or Remote Terminal Unit.

PROJECT PLAN – City of Jonesboro

Federal Signal utilizes a Project Management team approach to system development and implementation. A System Planner and Project Administrator will be assigned to this project to insure that we fully meet the design, documentation, training and commissioning requirements. Factory - direct personnel will be utilized for training and commissioning for this project.

Upon award of the project, a pre-construction meeting and a detailed project review will be conducted with the City to verify that the design approach and expected results are in line with expectations. Any discrepancies will be resolved to mutual satisfaction and formal change orders will be processed to document resulting changes in scope. A more in depth and detailed project schedule will be developed reflecting the increased understanding and mutual agreements gained during the design review.

At the conclusion of the pre-construction meeting site selection and production will commence. Site selection will require university participation in reviewing sites and providing clearance and approval for each site. Once production progresses to final assembly and test we would encourage a visit to our factory from a city representative. During the visit observation of our rigorous testing and simulated system demonstrations may be arranged.

Installation will be accomplished by installing a new stand alone control point and associated equipment at one of the activation points in addition to an initial group of siren controllers. The new control point and initial group of sirens would be exercised to verify their operational status.

Siren installation would then continue until completion. Customer provided power hook ups will follow directly there after. Once power hook up is completed system optimization and training will be scheduled. Our training team will provide the training materials and training sessions utilizing actual product and simulating actual operation. Separate sessions will be provided for Supervisors, Operators, and Technicians. Actual hands on demonstration and operations will be utilized to insure that complete understanding is achieved.

Upon completion of system optimization and training, initial sign off on the system is required.

Siren Locations

The City of Jonesboro will be utilizing the existing locations of seventeen (17) Federal Signal 2001 Sirens, which will be upgraded to 2-way status reporting. Federal Signal will work with the City of Jonesboro to determine the best possible locations for the 2001-130 Sirens, as these units have a higher sound output and may need to be relocated to alternate sites to provide the best coverage.

RF System

Low Band System

We will utilize an existing Low Band frequency, currently owned by the City of Jonesboro. As part of our base pricing, Federal Signal will provide two (2) new activation points, although additional locations can be provided. We will utilize existing base station radios, antennas and coaxial cable at each activation point, assuming each existing radio can function with the Digital Commander System.

Federal Signal will also provide an SS2000D Encoder (Desktop or rack), Dell Desktop PC, and the Digital Commander Software.

Each siren location in this system would contain a Low Band transceiver radio, Which would allow the siren unit to instantly report status back to the Activation point.

Each activation point will monitor and log the others activity, and any RF coverage issues will be resolved by using the Federal Signal Digipeat feature. This feature provides for using designated siren sites as store and forward repeater sites. Repeater strings can be established to provide any amount of additional RF coverage that may be required.

CITY OF JONESBORO

TRAINING PROGRAM

Introduction

This section defines the proposed training that will be given to the City of Jonesboro, Arkansas personnel.

Training Organization

Federal Signal Corporation utilizes in-house Systems Planning and Application personnel to provide high quality, efficient, and effective training. The training team for the City of Jonesboro will be led by a designated Training Manager who will be responsible for the development of training materials, coordinating a training event schedule with the facility, coordinating and overseeing instructors, and providing complete documentation to City of Jonesboro Outdoor Warning System officials. To assist the Training Manager, Federal Warning Systems Marketing Manager may also serve on the training team. These two functional positions will insure that training materials and procedures meet the requirements of city officials, and the high quality standards of Federal Signal Corporation.

Train-the Trainer course composition.

Federal Signal utilizes a Train-the-Trainer approach to all training and instructions. This approach insures that customers will be prepared to instruct and train others on the system when personnel changes occur. The requirement for the training courses is best satisfied by giving combinations of the courses, called Training Modules. The following table outlines this approach.

Table 1.0

Training Module	Participant Categories	Course	Duration Days	Training Equipment
1	Supervisors and/or Operators	Operating Procedures SFCDWARE & SS2000D	½ day	Central Control Point with Operational Base Radio System
2	Supervisors, Technicians, and Operators	System Start-up, Operation, and Configuration	½ day	Remote Control Point with Operational Base Radio System
3	Technicians	Technician Training Course	½ day	Central Control Point with Operational Base Radio System
4	Technicians	System Maintenance Training Course (optional)	½ day	Central Control Point with Operational Base Radio System

Equipment Supplied.

Federal Signal will supply hard copies of all materials used to “Train-the-Trainer”, along with an electronic copy of all material on a CD. The City of Jonesboro will be authorized to make duplicates of all materials necessary to effectively train their personnel for operation, configuration, and maintenance of the system.

Sample Outline for training courses.

We also utilize our product manuals for these training sessions to help users become familiar with the material. It is our practice to develop specific system-related training events to meet the needs of individual customers. The below training modules are based on standard offerings and are subject to change as together we define the appropriate training sessions for the various groups which will operate, configure, and maintain your system. Below is a brief outline of the topics which are typically discussed for some of the products which we have proposed for your system.

Sirens

1. Specification Overview
2. Sound Principles
3. Preventative Maintenance
4. Operation Procedures

Siren Control

1. Specification Overview
2. Features, Functions, & Components
3. Operation
4. Sensors
5. System Check-outs

SFCDWARE – Federal Commander Digital System Software

1. Main Features
2. System Configuration
3. Menu Selection Review
4. Configuration
5. Activation
6. Backing Up Important Files

SS2000D Encoder/Status Monitor

1. Specification Overview
2. Modes of Operation
3. Configuration
4. Self-Test Features
5. Buttons
6. Activation
7. Cancel, Clear & Reset
8. Function Keys (Operation and Programming)
9. SS2000Loader (Configuration Software)

Bid Exceptions

Bid No. 2008:18

Outdoor Warning Sirens

City of Jonesboro, Arkansas
Invitation to Bid – No. 2008:18

CONDITIONS OF BIDDING

6. LIQUIDATED DAMAGES – Federal Signal Corporation objects to this provision for two reasons. First, no schedule of damages is outlined in the bid requirements, making this provision arbitrary and unenforceable. Second, Federal Signal will, if awarded the contract, be providing a Performance Bond in the amount of 100% of the bid value, which should provide for any failure to perform as per the bid specifications.

FOB - Proposed Terms will be FOB University Park, IL. These terms can be negotiated.

Maintenance Agreement Pricing Shall remain firm for a 3 year period - Federal Signal will agree to increase the maintenance pricing no more than 5% per year for the 3 years following the project award. A 3 year Maintenance Contract can be purchased as a part of the contract, which will lock in the pricing for the next three years.

Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City is 30 Days. - Federal Signal cannot guarantee the 30 day completion, as we don't believe any vendor can, even if stated they can. Federal Signal has the largest capacity of any vendor to manufacture, install, optimize and train, and we believe we will exceed the delivery time stated on our bid response.

Activation Equipment

Encoder / Software

FEDERAL COMMANDER DIGITAL SYSTEM

The Federal Commander Digital System offers Emergency Management, secure activation and status monitoring of any siren system, and consists of the SS2000D encoder, the SFCDWARE package, and digital Siren Controllers. From siren activation to in-home alert, this system is designed to provide your community with complete alert and notification capability.

The Federal Commander continues to evolve to meet the changing demands of customers throughout the world to provide a system unmatched in its features and ease of use. Designed with Federal's modular philosophy, the system can grow to accommodate changing community needs. From one Central Control and one Remote Terminal Unit (RTU), the system can expand to include more than 255 RTUs, 16 zones, and digital tone alert receivers.

Digital Siren Controllers are available for both electronic sirens, speakers, and electro-mechanical sirens. These controllers come equipped with over-the-air programmability via secure digital technology.

**SINGLE POINT AND CLICK
ACTIVATION AND POLLING**

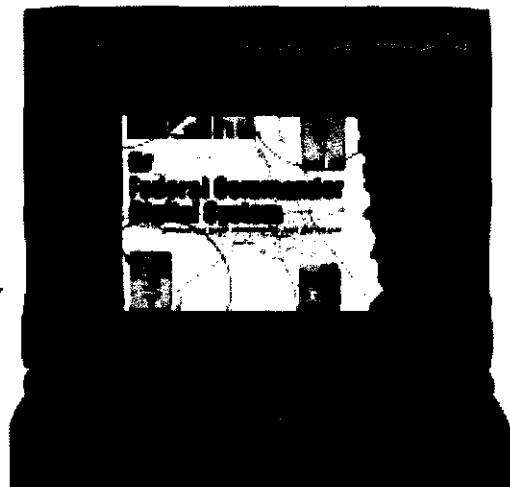
**STATUS MAP WITH COLOR CODED
STATUS OF EACH SIREN**

**COMPLETE CONFIGURATION AND
REPROGRAMMING FROM CONTROL
SITE**

**AUTOMATIC CALL-OUT TO ALERT KEY
PERSONNEL**

MULTIPLE PASSWORD LEVELS

**AUTOMATIC NOTIFICATION OF ANY
CHANGE IN STATUS**



"ARE YOU PREPARED?"



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

FEDERAL DIGITAL COMMANDER SYSTEM

FEATURES

- Up to 255 Sites
- 9 repeaters and two chains
- 10 person call list
- 1200 baud MSK modem
- Conventional and Trunking Radio Compatibility
- 56K PCI modem
- Optional Networking TCP/IP Interface

CCU MINIMUM REQUIREMENTS*

- An IBM compatible Pentium or greater running at 500 MHz or faster.
- Windows XP
- 256MB or more of Random Access Memory (RAM)
- 10GB Hard Disk Drive or Larger
- SVGA Color Monitor and Controller.
(800 x 600 resolution, 24 bit color recommended).
- CD RD-W Drive
- 101-key enhanced Keyboard
- One Parallel Printer Port-LPT1
- One RS-232 Serial Port
- One telephone modem (provided)
- Mouse
- Dot Matrix Printer 24-Pin with Parallel Interface and cable (optional)
- AC Surge Protection Device
- Phone Line for use of Alarm reporting and remote dial-in feature

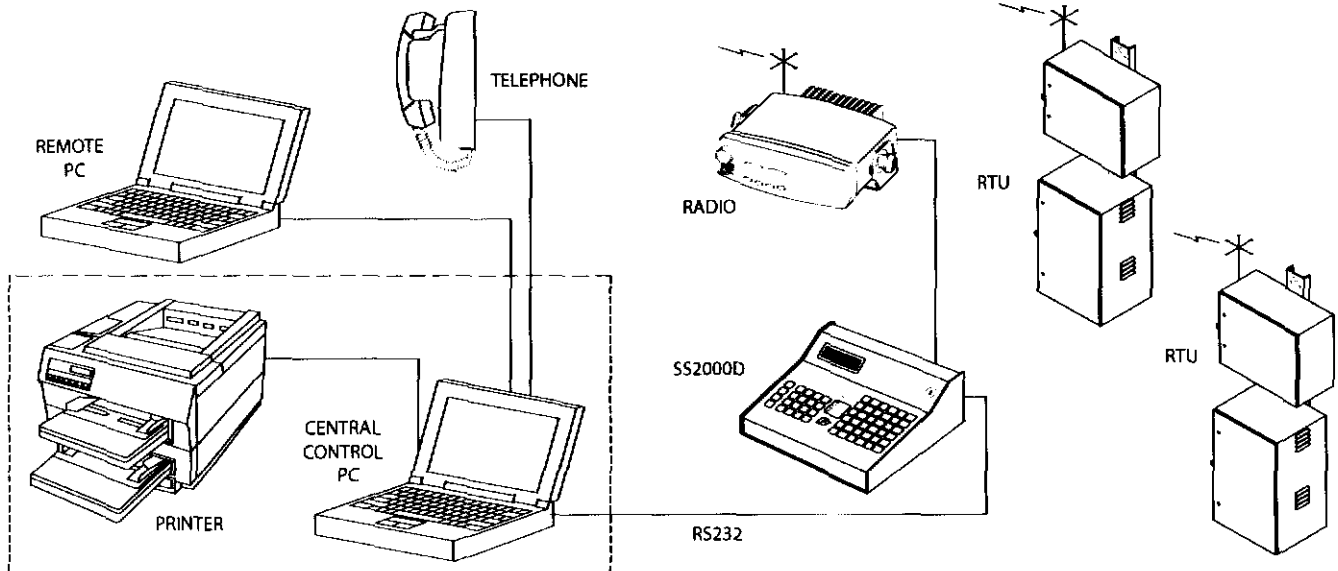
*Sold separately or Customer supplied.

STATUS MONITOR

AC Power, Battery, Intrusion, Rotation, Amplifiers, Communication Path, etc.

ORDER INFORMATION

SFCD10	Windows Application Software for up to 10 sites
SFCDUPI	Upgrade from 10 to 25 sites
SFCD25	Windows Application Software for up to 25 sites
SFCDUPII	Upgrade from 25 to 255 sites
SFCD255	Windows Application Software for up to 255 sites
SFCD-W	SFCDWARE Extended Warranty
SFCDCLNT	TCP/IP Client Software (5 Seats)
SFCDCLNT-W	Client Software Extended Warranty
X-PCXPPRO-B	Desktop with WIN XP-Pro, 15" flat screen monitor and other min. standards
X-PC-LAPXPPRO	Laptop/Notebook PC with Win XP-Pro and other min. standard:



FEDERAL SIGNAL CORPORATION Federal Warning Systems

2645 Federal Signal Drive, University Park, IL 60486-3195
Sales: 800/548-7229 • Fax: 708/534-4855
Visit us at www.federalwarningsystems.com



SS2000

Federal Signal's SS2000 encoder is a versatile, user-friendly control unit. Available in one-way control and two-way status monitoring, the controller is offered in DTMF or FSK formats. Encoded command sequences are field programmable and stored *in memory for retention even when electrical power is removed*. Federal Signal's SSLOADER offers an easy Windows-based software package for configuring the encoder's command sequences and operating parameters.

This easy to use activation unit offers (18) hot-keys and a four-line, back-lit LCD display which provides clear instruction to the operator.

The SS2000 (One-Way DTMF) model can function as a stand-alone encoder or connect to an optional printer for reporting on all two-way controlled remote siren sites. Reports indicate siren site number, type of siren, detailed status of siren, and time and date of the report. The SS2000D (Digital/FSK) model can be connected to a Windows XP computer running Federal's SFCDWARE for utilization of the Graphic User Interface to control and monitor the siren system.

AVAILABLE FOR BOTH DTMF AND FSK
ENCODING

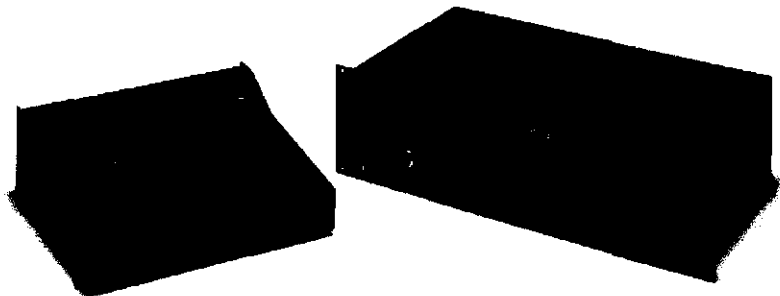
LARGE, 4-LINE, BACK-LIT DISPLAY

18 HOT COMMAND FUNCTION KEYS

FULLY FIELD PROGRAMMABLE

BUILT-IN SPEAKER AND MICROPHONE JACK

DESK AND 19" RACK-MOUNT VERSIONS
AVAILABLE



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

"ARE YOU PREPARED?"

SS2000 SPECIFICATIONS

Line Input: 120 VAC wall transformer power supply

Battery Input: 11.5 - 20 VDC (overvoltage and reverse voltage protection)

Power Supply Input Voltage: 11.5-20 VDC
(14.5 VDC Typical)

Input Current: 400mADC (MAX. 15 mA Typical)

Distortion: < 3.0%

ENCODE/DECODE FORMAT

DTMF Format: 3-20 standard DTMF characters

DTMF Timing: 35/5 to 1000/1000
(digit duration/inter digit silence)

MSK: 1200 BAUD (MSK is minimal shift keyed digital format)

Carrier Detect: Active High 4.5 - 14 VDC
Active Low 0 - 3.0 VDC

VOX: -35dbm to 0dbm

Parallel Port: IBM Compatible Printer Port

Serial Port Protocol: RS232 9600 BAUD, N,8,1
(Xmodem Standard)

SPEAKER

Power: 1 watt

Impedance: 8 ohms

MICROPHONE

Input Level: 10mv - 100mv PTP

Input Impedance: 12K ohms

Input Jack: 1/4" TRS

TIP: Audio

Ring: PTT

Shield: Ground

AUDIO INTERFACE

Audio Output: Balanced 600 ohm, -55dbm to 0dbm

Audio Input: Balanced 600 ohm, -35dbm to 0dbm

Decode Sensitivity: < 8-10 dB(C) S/N or 12 dB(C) SINAD

Relay Outputs: 3 DPDT 1.25A at 24 VDC
0.4 A at 120 VAC

CONFIGURATION SOFTWARE

SSLOADER™ Operating System
Windows 98, 2000, XP Compatible

DIMENSIONS (DESK MOUNT)

Height x Width x Depth: 11.6" x 10.25" x 4.2"
29.5cm x 26.1cm x 10.7cm

WEIGHT (DESK MOUNT)

Shipping Weight: 6 lbs. (3 kg)

DIMENSIONS (RACK MOUNT)

Height x Width x Depth: 19" x 10" x 5.2"
48.5cm x 25.5cm x 13.2cm

WEIGHT (RACK MOUNT)

Shipping Weight: 8 lbs. (4 kg)

ENVIRONMENTAL

Operating Temperature: 0° to 50°C

ORDER INFORMATION

SS2000	One-way, DTMF Encoder, desk mount
SS2000R	One-way, DTMF Encoder, 19" rack mount
SS2000T	Two-way, DTMF Encoder, desk mount
SS2000TR	Two-way, DTMF Encoder, 19" rack mount
SS2000D	Two-way, FSK Encoder, desk mount
SS2000DR	Two-way, FSK Encoder, 19" rack mount
SSP	Printer and cable
MNC-MC	Handheld Microphone



FEDERAL SIGNAL CORPORATION
Federal Warning Systems

2645 Federal Signal Drive, University Park, IL 60466-3195

Sales: 800/548-7229 • Fax: 708/534-4855

Visit us at www.federalwarningsystems.com



7/06

City of Jonesboro
Invitation to Bid - Not an Order

P.O. Box 1845
 515 West Washington Ave. (72401)

Purchasing Office

Bid No. 2008:18

Jonesboro, Arkansas 72403

Date May 23, 2008

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at this office until **2:00pm Thur June 12, 2008** and then publicly opened, for furnishing the supplies, materials and/or services as described below and tabulated for presentation to the City Council on n/a.

F.O.B. Jonesboro
 Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City 30 days.

By: **Steve A. Kent**
 Purchasing Agent
 (870)932-0740

Item #	Description	Quantity	Unit	Unit Price	Amount
	<p>SCOPE:</p> <p>The City of Jonesboro is accepting bids for the following equipment. The following minimum specifications are considered necessary to perform the work required. The equipment specified, in order to establish a basis of design, performance, and quality, is based on Federal Models. Manufacturers' published literature must clearly show that the products being offered are in compliance with these specifications. All equipment furnished under this contract shall be new and manufacturer's current production model unless stated otherwise. Accessories, not specifically mentioned herein but necessary to furnish a complete unit ready for use, also shall be included. Units are to be installed by the Bidder.</p> <p><u>If any of the equipment bid varies from the specifications, such variation(s) must be listed in writing and attached as part of the bid proposal.</u> The City of Jonesboro reserves the right to waive minor variance(s) if in the opinion of the Police Department that the basic bid meets the general intent of these specifications.</p> <p>State Make and Models being bid: <u>Wholen Vortex R4</u></p> <p>Warranty explanation <u>See enclosed warranty</u></p> <p>Estimated time of delivery: <u>120</u> days</p> <p>Bid number (2008:18) must be annotated on the outside of bidder's envelope. Bid must be signed or bid will be rejected.</p> <p>Email address: <u>curt.majors@mo-ark.com</u></p> <p>Does bidder meet ALL specifications? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><u>All Specs are equal to request</u></p> <p>Bidder shall have and attach to this bid a copy of proof that bidder has and maintains worker's comp insurance and sufficient liability insurance. Any accidents and/or destruction of property not owned by the bidder shall be covered and/or replaced if damage occurs.</p> <p>The City of Jonesboro will supply any and all electrical that is required for installation. Bidder will supply any and all electrical from the outlet to equipment.</p> <p>Any addendum to this bid will be posted on the Purchasing web site no later than 1 week before bid opening. See page 2 for web address.</p> <p>Maintenance agreement for entire system per year: \$ <u>6080</u></p> <p>Price shall remain firm for a 3 year period at which time the City may negotiate continuance for two (2) additional years.</p> <p>Please attach an expiation to explain maintenance agreement... What is covered/what is not.</p>				

Execution of Bid

Date 6/11/2008

We, the undersigned, have read all the requirements set forth in this bid proposal including specification, instructions, conditions and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices stated.

Arkansas Use Tax Register No. 030735-78-002 Phone # (870) 268-9441

Bidder Mo-Ark Communications Address 6509 E Parker Rd X 108

By [Signature] Sales Rep City Jonesboro
 (Person Authorized to Sign Bids) (Title)

Unsigned Bids Will Be Rejected

**Bids number MUST be annotated on Bidder's envelope.
 Bids are subject to rejection unless submitted on this form.
 Notice to bidders: See reverse side for instructions and conditions.**

CITY OF JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR CONSIDERATION OF THIS BID:

1. **SIGNATURE** - This bid must be signed with the firm name and by an authorized officer, employee, or agent.
2. **SALES OR USE TAX** - is not to be shown in the bid price (unless otherwise stated) but is to be added by the vendor to the invoice billing to the City. The City is not exempt from Arkansas State Sales & Use Tax. Although Use Tax is not included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
3. **FREIGHT & OTHER DELIVERY CHARGES** - to designated City facility in Jonesboro must be included in bid. Charges may not be added after the bid is opened.
4. **DISCOUNTS** - Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise City will deduct allowed discount when payment is made.
5. **FIRM PRICE** - All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the City or bidder.
6. **IDENTICAL BIDS** - In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between the said two or more bidders at the discretion of City.
7. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
8. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
9. **CONSTRUCTION** -
 - A. When noted, the Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A performance Bond equaling the total amount of any bid exceeding \$3,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Ark. Stat. SS51-632.SS51-565 as amended.)
10. The City reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
11. **Minority Business Policy** - It is the policy of the City of Jonesboro that minority business enterprises shall have the maximum opportunity to participate in the city purchasing process. Therefore, the City of Jonesboro encourages all minority businesses to compete for, win and receive contracts for goods, services, and construction. The city also encourages all companies to subcontract portions of any city contract to minority business enterprises.

INSTRUCTIONS TO BIDDERS

(PLEASE READ CAREFULLY)

1. Submit bid on bid form on reverse side of this sheet. NO Facsimiles will be accepted.
2. Address all bids to: Purchasing Agent, P.O. Box 1845, Jonesboro, Arkansas 72403-1845 and make certain to indicate identifying bid number on the outside of bidder's envelope.
3. DO NOT include Federal Excise Tax in bid. City will furnish exemption certificate.
4. State Manufacturer, Brand Name, Model, etc for each item bid on.
5. Samples of items, when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will be disposed of by City
6. Bids received after stated time will not be considered.
7. Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
8. Guarantees and warranties should be attached as a part of the bid as they may be a consideration in awarding a contract.
9. Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
10. Additional information may be obtained from the Purchasing Office.

THE CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.

Click on Purchasing at www.jonesboro.org for any additional information.

See Attached Quote

Specifications and bid sheet for bid: Unit Total

2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:

1.	17	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
2.	17	Voltage Sensor Package	\$ _____	\$ _____
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ _____	\$ _____
4.	17	Removal of Existing Control Unit	\$ _____	\$ _____
5.	17	Installation of 2-Way Siren Control Unit	\$ _____	\$ _____

TOTAL \$ _____

2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren

1.	9	Rotating Siren (130db)		
2.	9	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
3.	9	Voltage Sensor Package	\$ _____	\$ _____
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ _____	\$ _____
5.	9	Removal of existing siren equipment	\$ _____	\$ _____
6.	9	Install (Includes 50' Class II Wood Pole)	\$ _____	\$ _____

TOTAL \$ _____

2001-130 AC Siren Additional Sites to increase coverage

1.	12	Rotating Siren (130db)		
2.	12	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
3.	12	Voltage Sensor Package	\$ _____	\$ _____
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ _____	\$ _____
5.	12	Install (includes 50' Class II Wood Pole)	\$ _____	\$ _____

TOTAL \$ _____

Activation Points Encoder, Software, Installation & Training

1.	2	FSK Encoder (Desktop or RackMount)	\$ _____	\$ _____
2.	2	Installation of SS2000D Encoder	\$ _____	\$ _____
3.	2	Digital Commander Software (Up to 255RTU's)	\$ _____	\$ _____
4.	2	Dell Desktop PC	\$ _____	\$ _____
5.	1	System Optimization for Secundare Control Point	\$ _____	\$ _____
6.	1	System Optimization and Complete Training Package	\$ _____	\$ _____
7.	1	Client Server Software (Internet Monitoring & activation)	\$ _____	\$ _____

TOTAL \$ _____

GRAND TOTAL OF ALL 4 SECTIONS \$ _____

Specifications and bid sheet for bid: Same Specs but with AC/DC operation			Unit	Total
2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:				
1.	17	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
2.	17	Voltage Sensor Package	\$ _____	\$ _____
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ _____	\$ _____
4.	17	Removal of Existing Control Unit	\$ _____	\$ _____
5.	17	Installation of 2-Way Siren Control Unit	\$ _____	\$ _____
TOTAL			\$ _____	
2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren				
1.	9	Rotating Siren (130db)		
2.	9	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
3.	9	Voltage Sensor Package	\$ _____	\$ _____
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ _____	\$ _____
5.	9	Removal of existing siren equipment	\$ _____	\$ _____
6.	9	Install (Includes 50' Class II Wood Pole)	\$ _____	\$ _____
TOTAL			\$ _____	
2001-130 AC Siren Additional Sites to increase coverage				
1.	12	Rotating Siren (130db)		
2.	12	AC Siren Control Unit (FSK / 2-way / VHF)	\$ _____	\$ _____
3.	12	Voltage Sensor Package	\$ _____	\$ _____
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ _____	\$ _____
5.	12	Install (includes 50' Class II Wood Pole)	\$ _____	\$ _____
TOTAL			\$ _____	
Activation Points Encoder, Software, Installation & Training				
1.	2	FSK Encoder (Desktop or RackMount)	\$ _____	\$ _____
2.	2	Installation of SS2000D Encoder	\$ _____	\$ _____
3.	2	Digital Commander Software (Up to 255RTU's)	\$ _____	\$ _____
4.	2	Dell Desktop PC	\$ _____	\$ _____
5.	1	System Optimization for Secundare Control Point	\$ _____	\$ _____
6.	1	System Optimization and Complete Training Package	\$ _____	\$ _____
7.	1	Client Server Software (Internet Monitoring & activation)	\$ _____	\$ _____
TOTAL			\$ _____	
GRAND TOTAL OF ALL 4 SECTIONS			\$ _____	



1809 E Parker Rd
Jonesboro, AR 72404
(870) 268-9441

June 11, 2008

City of Jonesboro
Attn: Steve Kent
Purchasing Agent

RE: Outdoor Warning Siren System Invitation to Bid

Dear Mr. Kent,

Mo-Ark Communications & Electronics, Inc. in partnership with Fesler's Inc. is pleased to provide this response to your Invitation to Bid for an outdoor warning siren system for the City Jonesboro, AR. Inasmuch as the product that we will propose to the City of Jonesboro is one which is not particularly specified in the request for proposal document, it is obvious that the intent of the City is to purchase the most cost effective and reliable product and for that reason we are pleased to propose the WHELEN VORTEXR4™ *electronic* rotating siren and supporting equipment which not only meets, but exceeds the specification. The VORTEXR4™ has been accepted worldwide as an equivalent and often exceeding the specifications of an electromechanical siren.

The VORTEXR4™ is a 129dBc (+/- 1 dB) siren which operates on a 24 VDC system which is kept charged by a battery charger operating on 120 VAC or solar power. This siren has an effective 70dBc warning perimeter of 6000'. All WHELEN siren models are electronic sirens which produce sound by means of power amplifiers and speaker drivers—not motors and choppers. The four (4) 400 watt speaker drivers in the WHELEN VORTEXR4™ are specifically designed for outdoor warning application. Because there are no moving parts to create sound, the VORTEXR4™ uses only two batteries to operate the high power siren system *and* rotate the siren. This system is able to operate at full power on as little as 19 volts. There are no *recurring* maintenance issues as the only moving part on the VORTEXR4™ is the rotor motor which requires little or no maintenance of its gear driven assembly. The 120VAC powered battery charger is temperature compensated which keeps the batteries charged without the need for additional warming blankets in cold weather and maintains an effective operating temperature in warm weather as well. Solar power is an attractive option to consider with the sirens as it gives the City additional options for placement without the need for

electric power. Additionally, our experience has indicated sirens with the solar option are not prone to as many lightning strikes or power surges as they are independent of electric power and power lines.

The sirens will be activated by a proprietary 10-Digit DTMF VHF radio format. While the specification calls for FSK activation, and we have included that in our proposal, the 10 Digit DTMF VHF WHELEN activation format is one that is totally secure and that we highly recommend. The FSK option is line-itemed and can be deducted from the final price. Each siren will be equipped with a transceiver which will receive the signal from the activation point and report back to that point its status in the specified areas. Included in our pricing is the Whelen E2010 Central Station Encoder/Decoder along with a status reporting printer to provide a hard copy of the status report. Price of the installation of the encoder is included in our pricing. As an option, we have provided pricing for an additional E969 and/or E747 encoder either of which can be installed in emergency vehicles or an alternate (backup) activation point. (Installation cost not included)

We have proposed to install all new sirens instead of upgrading sirens that may possibly be near their end of life or have increased future maintenance costs. Included with the price of our sirens is the Power Supply(AC Unit) and batteries (DC) that run the siren as well as Omni Directional Antenna, Coax Cables. Also note that our sirens don't require an additional "voltage sensor package" so none has been quoted.

We are very pleased to provide the CentrAlert EOS™ (Emergency Operating System) as the computer activation and reporting equipment for this proposal request. CentrAlert™ is the world's first "plug and play" alert and notification system and is manufactured exclusively for Whelen Engineering Company public warning products. The price for the EOS™ includes software as well as specifically designed DELL® hardware for reliable operation. Installation costs are included in this pricing. Supporting literature and information on this product is provided in this proposal.

Training for pertinent personnel will be conducted prior to and during the installation of the remote siren stations. Training documents will be provided at that time specific to the protocol established by the City of Jonesboro.

Fesler's Inc. of North Liberty, IA is an authorized WHELEN outdoor warning siren distributor as well as an authorized distributor for the CentrAlert EOS™ and will be the equipment provider for this project. Mo-Ark Communications & Electronics, Inc. is a long-standing Communications Systems provider with over 50 years experience in the communications system design and service field and will be the vendor to the City as well as the project manager on this project.

Installation will be on Class 2 50-60' poles as specified by Whelen Engineering Company for the VORTEXR4™. Installation pricing includes the pole (on new installs), mounting hardware, siren mounting and pole set up. Final electric hookup is the responsibility of the City as specified. The City is responsible for final site selection with

assistance from Mo-Ark Communications and Fesler's Inc. staff. Sites must be cleared by the City for underground and overhead obstructions as well as being accessible by heavy equipment. Neither Mo-Ark Communications nor Fesler's Inc. will be responsible for site restoration or any damage to sidewalks, curbs or streets which may occur during the installation of the project.

Our timeline on this project will be as follows:

- | | |
|---|------------------------|
| • Delivery and Installation of siren activation equipment | 6-8 wks ARO |
| • Delivery of remote siren equipment | 8-12 wks ARO |
| • Installation of siren equipment | 2-6 wks after delivery |
| • Final acceptance of project | TBD |

Mo-Ark Communications will be the service provider on the siren system. Their WHELEN factory trained service staff can respond quickly to any service or maintenance issue that may occur with the WHELEN VORTEXR4™ siren system. An array of spare parts is typically available with loaner parts available to maintain siren operation in the event that a factory repair is indicated. Service agreement information is provided within the bid packet.

Whelen Engineering Company, Inc. maintains a toll-free number for its technical assistance staff. Additionally, the service department as well as individual technicians have email capability and respond in a timely manner to all questions about any service or technical related issues regarding Whelen siren models. The service department at Whelen Engineering has garnered high praise from end users for their exemplary service. Additionally, the Whelen Engineering Company, Inc. website, www.whelen.com, maintains current service manuals and installation guides on all products. Information on specific components of Whelen siren systems, not listed on the web site are available by email or fax through the outdoor warning service department

Mo-Ark Communications and Fesler's Inc. have partnered on projects throughout the Missouri and Arkansas. We have provided the names of some of those communities who have relied on our experience to provide the most reliable and cost effective outdoor warning systems for their citizens. We have also provided a list of communities and agencies of all sizes who will speak to the long-term reliability of Whelen Engineering Company, Inc. outdoor warning sirens.

Our price includes:

- Siren equipment
- Siren installation including pole and mounting hardware where needed
- Activation equipment and installation
- Training and post-installation follow up

Our proposal includes our pricing for the specified equipment along with some options that may be considered. Sales literature for all products listed is enclosed. All pertinent documents are included as well.

It would be our pleasure to meet with the evaluation board to provide any additional information or answer any questions that you may have regarding our proposal and products. We appreciate the invitation to submit a proposal on this project and will look forward to working with you in the future.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. Majors', written in a cursive style.

Curt Majors
Mo-Ark Communications Jonesboro

Enclosures

PUBLIC WARNING SYSTEM PRODUCTS ONLY

USER DIRECT WARRANTY

PUBLIC WARNING SYSTEM PRODUCTS ONLY

Whelen's warranty on Whelen High-Power Voice and Siren Systems is limited to the following:

For a period of 24 months from the date of manufacture, Whelen will repair* or replace at its option, defective modules, which are manufactured by Whelen Engineering Company, Inc. in their entirety, and are returned by the customer via prepaid freight. Whelen will return repaired modules via prepaid ground transportation if shipping address is within the 48 contiguous states or District of Columbia. Repaired modules shipped outside of the 48 contiguous states or District of Columbia are at customer's expense.

Excluded from warranty consideration is any loss arising from vandalism, tampering, misuse, improper installation, environmental damage or alterations to the product.

A "pass-through" warranty is offered for products manufactured by other companies that are sold with Whelen High-Power Voice and Siren Systems and Whelen Electronic Sirens. Typical examples of such products include, but are not limited to: computers, printers, weather data sensors, un-interruptible power supplies, and batteries. Warranties on these products are "pass-through", meaning the equipment warranty will be limited to that offered by the equipment's original manufacturer and that the warranty will exist solely between the manufacturer and end user. Exceptions will be by prior contractual agreement only.

For a three year period following the 24 month warranty, Whelen will repair defective modules, which are manufactured in their entirety by Whelen and are returned to Whelen via prepaid freight for a flat fee. Whelen reserves the right to determine if the unit is repairable. This flat fee is now \$75 per module. This offering is limited to defective modules, exclusive of any loss arising from vandalism, misuse, improper installation, tampering or environment damage. Whelen warrants its repair of defective modules for a period of one year.

Whelen will not be held liable for any incidental or consequential damages, and assumes no responsibility or liability for expenses incurred in the removal and/or reinstallation of products requiring service and/or repair, nor the packaging, handling and shipping to the Factory Repair Center; nor for the handling of products returned from the repair center after service or repair. Failure to use the batteries recommended by Whelen Engineering Company, Inc. will void your warranty.

There are no warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use.

Whelen Engineering Company, Inc. reserves the right to discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.

This Warranty gives you specific rights and you may also have other rights which vary from state to state.

WHELEN[®]

ENGINEERING COMPANY, INC.

Route 145, Winthrop Road, Chester, CT 06412-0684

Tel: (860) 526-9504 • Fax: (860) 526-4784

PWSWARR-10572D-011806

* The only AUTHORIZED WHELEN REPAIR CENTER(S) are predetermined by the Whelen Factory via official listing obtained from Whelen Engineering Company Inc., Chester, CT.

Quick Comparison Sheet

Whelen VORTEXR4	Electro Mechanical Siren
24VDC system powered by two batteries charged by 120VAC battery charger. System will work at full power on as few as 19 volts. In case of power failure, the siren can operate intermittently for up to 14 days without fully charged batteries.	240VAC system which reverts to 48VDC on four batteries backup power in the event of power loss. Unknown how long siren will operate without fully charged batteries.
Sound is produced by four (4) 400 watt speaker drivers wired to individual power amplifiers. If one speaker driver/power amplifier should fail, remaining speaker drivers/power amplifiers will still operate providing warning tones.	Sound is produced by means of motors and choppers. In the event that the three-phase motor should fail, there is nothing else to produce sound in the siren.
129 dBc rated at 100' SPL with a 6000' estimated 70 dBc warning perimeter with battery operation (documented)	128 dBc rated at 100' SPL-question as to whether this is with AC or DC power
Little to no maintenance on rotor motor gear which rotates the siren.	Motor assembly and sound production motor require annual maintenance
UL listing for battery charger only as it is the only part requiring electrical service	Rotor motor and sound producing motor assembly all require high voltage electric power for operation thus UL listing approval
Repairs to siren head are made easily without removal of the entire speaker assembly.	Repairs to siren head could require removal of entire head assembly.
Whelen Engineering Company two-year no cost full replacement parts warranty with three-year extended warranty at flat fee pricing (\$95.00 per module -04/2006)	Check manufacturer's warranty for details
Whelen 10 Digit VHF DTMF radio activation protocol highly secure without added expense of additional FSK activation system.	FSK activation apparently required for additional security as noted in specification.
Natural aluminum electronics cabinet requires no painting and is rust resistant	Check for periodic painting of electronics cabinet and siren head assembly

VORTEX™ Series Users

City of Williamsburg, IA
Chief Mike Gabriel
Williamsburg Police Department
210 West State Street
Williamsburg, IA 52361
319-668-1133

City of Oelwein, IA
Chief Wallace Rundle
Oelwein Fire Department
200 West Charles Street
Oelwein, IA 50662
319-283-5722

City of Independence, IA
Rick Wulfekuhle
Director
Buchanan County Emergency Management
210 5th Avenue
Independence, IA 50644
319-334-6411

City of Ely, IA
Chief Tom Tjeleland
Ely Fire Department
P. O. Box 248
Ely, IA 52227
319-521-4882

City of West Des Moines, IA
West Des Moines Fire Department
T.J. Schwartz
P.O. Box 65320
West Des Moines, IA 50265
515-208-0997

City of Coralville
Coralville Fire Department
Chief David Stannard
1501 5th Street
Coralville, IA 52241
319-248-1835

Whelen Users

City of Osage Beach, MO

Luke Milka
100 City Parkway
Osage Beach, MO 65065
573-302-2000 x 294
8-WPS2809 installed 2000

St. Charles County, MO

Rod Zerr-Director
St. Charles County Emergency Management
200 N. Second Street
St. Charles, MO 63301
636-949-3023
WPS 2806/2807/2907
30+ sirens 1994-present

Communities in St. Charles County:
O'Fallon, Lake Saint Louis, and Wentzville

St. Louis County, MO

Mike Emken
St. Louis County Emergency Management
14847 Ladue Bluffs Crossing
Chesterfield, MO 63017
314-628-5406
2-WPS2908 installed in 2006
(five more recently delivered, four addition on order)
(St. Louis County has over 150 Whelen WPS 3000/4000 models)

Butler County, MO

Richard Couch-Director
Butler County Emergency Management/Homeland Security Agency
1617B North Main Street
Poplar Bluff, MO 63901
11-WPS 2800/2900 series sirens installed 2005/2006

Stoddard County, MO

Bill Pippins-Director
Stoddard County Emergency Management/Homeland Security Agency
512 Cooper Street
Dexter, MO 63841
573-624-9086
4-WPS2808/4-WPS2805 installed 2005

Mo-Ark Communications
1809 E Parker Rd
Jonesboro, AR 72404

Maintenance Agreement

Mo-Ark will maintain, after warranty, including parts and labor on all siren positions for normal outages. No coverage is provided for "acts of God", wind damage, lightning or vandalism.

Mo-Ark will stock one complete spare siren at it's Jonesboro, AR location for repairs and replacement during the contract period.

Maintenance Agreement includes one preventative maintenance check per siren per year to be conducted February-March.

Mo-Ark will not be responsible for electrical problems. All work will be conducted Monday thru Friday, 8AM-5PM; Except Federally Recognized Holidays.

Mo-Ark will maintain a 24 Hour Response time to all service calls made under this service agreement.

Any work above and beyond this maintenance agreement will be billed at Mo-Ark's prevailing rate.

Yearly Cost Per Siren: \$160.00

Total System Cost (Yearly): \$6080 (38 Sirens)

COMMERCIAL GENERAL LIABILITY COVERAGE PART - DECLARATIONS



POLICY NUMBER: 38 UEN KJ2772

This COMMERCIAL GENERAL LIABILITY COVERAGE PART consists of:

- A. This Declarations;
- B. Commercial General Liability Schedule;
- C. Commercial General Liability Coverage Form; and
- D. Any Endorsements issued to be a part of this Coverage Part and listed below.

LIMITS OF INSURANCE

The Limits of Insurance, subject to all the terms of this Policy that apply, are:

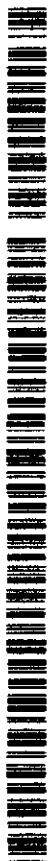
Each Occurrence Limit	\$1,000,000
Damage to Premises Rented to You Limit - Any One Premises	\$300,000
Medical Expense Limit - Any One Person	\$10,000
Personal and Advertising Injury Limit	\$1,000,000
General Aggregate Limit, (other than Products-Completed Operations)	\$2,000,000
Products-Completed Operations Aggregate Limit	\$2,000,000
ADVANCE PREMIUM:	\$2,944.00

AUDIT PERIOD: ANNUAL AUDIT

Except in this Declarations, when we use the word "Declarations" in this Coverage Part, we mean this "Declarations" or the "Common Policy Declarations."

Form Numbers of Coverage Forms, Endorsements and Schedules that are part of this Coverage Part:

HC70010605	CG00670305	CG22910798	HC00880605	HC23700106
HG00010605	HC21900901	HG22030605	HC12101185T	
IH12011185	RATING BASIS FOR GENERAL LIABILITY			
IH12011185	NON AUDITABLE			
IH12011185	GENERAL LIABILITY			



70 (Policy Provisions: WC 00 00 00 A)

82

RW **INFORMATION PAGE**

WEC **WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY**

INSURER: SEE ATTACHED ENDORSEMENT

NCCI Company Number:

14974

Company Code: 9



TWIN CITY FIRE INSURANCE COMPANY IS REQUIRED BY LAW TO PROVIDE ITS POLICYHOLDERS WITH CERTAIN ACCIDENT PREVENTION SERVICES AT NO ADDITIONAL COST AS REQUIRED BY ARK. CODE ANN. '11-9-409(D) AND RULE 32. IF YOU WOULD LIKE MORE INFORMATION, CALL THE HARTFORD, LOSS CONTROL DEPARTMENT, HARTFORD PLAZA, CALD-2-45, HARTFORD, CT 06115, 1-860-547-7761. IF YOU HAVE ANY QUESTIONS ABOUT THIS REQUIREMENT, CALL THE HEALTH AND SAFETY DIVISION, ARKANSAS WORKERS COMPENSATION COMMISSION AT 1-800-622-4472.

Suffix
LARS RENEWAL
00

POLICY NUMBER:

38 WEC RW8270

Previous Policy Number:

30 WEC NY1297

HOUSING CODE: SC

1. **Named Insured and Mailing Address:** MO-ARK COMMUNICATIONS INC
(No., Street, Town, State, Zip Code)

PO BOX 987
BLYTHEVILLE, AR 72316

FEIN Number: 710402214

State Identification Number(s):

The Named Insured is: CORPORATION
Business of Named Insured: RADIO & TV REPAIR SERVICES
Other workplaces not shown above: SEE ATTACHED SCHEDULES

2. **Policy Period:** From 10/31/07 To 10/31/08
12:01 a.m., Standard time at the insured's mailing address.

Producer's Name: M F BLOCK INSURANCE INC

PO BOX 640
PARAGOULD, AR 72451

Producer's Code: 591884

Issuing Office: THE HARTFORD
3600 WISEMAN BLVD.
SAN ANTONIO TX 78251
(800) 447-7649

Total Estimated Annual Premium: \$6,190

Deposit Premium:

Policy Minimum Premium: \$752 MO (INCLUDES INCREASED LIMIT MIN. PREM.)

Audit Period: ANNUAL

Installment Term:

The policy is not binding unless countersigned by our authorized representative.

Countersigned by

Ron Ryan
Authorized Representative

11-15-07
Date

32838

*0100038RW82700101

3. A. Workers Compensation Insurance: Part one of the policy applies to the Workers Compensation Law of the states listed here: AR, MO

B. Employers Liability Insurance: Part Two of the policy applies to work in each state listed in Item 3.A. The limits of our liability under Part Two are:

Bodily injury by Accident	\$1,000,000	each accident
Bodily injury by Disease	\$1,000,000	policy limit
Bodily injury by Disease	\$1,000,000	each employee

C. Other States Insurance: Part Three of the policy applies to the states, if any, listed here:

ALL STATES EXCEPT ND, OH, WA, WV, WY, AND STATES DESIGNATED IN ITEM 3.A. OF THE INFORMATION PAGE.

D. This policy includes these endorsements and schedule:

WC 99 00 05 WC 00 04 06 WC 00 01 13 WC 00 04 21A WC 00 04 22
SEE ENDT

4. The premium for this policy will be determined by our Manuals of Rules, Classifications, Rates and Rating Plans. All information required below is subject to verification and change by audit.

Classifications Code Number and Description	Premium Basis		
	Total Estimated Annual Remuneration	Rates Per \$100 of Remuneration	Estimated Annual Premium

(SEE ATTACHED SCHEDULES)

INCREASED LIMITS PART TWO (9812)	127
TO EQUAL INCREASED LIMITS MINIMUM PREMIUM (9848)	23
TOTAL ESTIMATED ANNUAL STANDARD PREMIUM	5,719
PREMIUM DISCOUNT	-23
EXPENSE CONSTANT (0900)	160
TOTAL ESTIMATED STATE SURCHARGE	55
FOREIGN TERRORISM (9740)	184
DTEC (9741)	95
TOTAL ESTIMATED ANNUAL PREMIUM	6,190

Total Estimated Annual Premium:	\$6,190
Deposit Premium:	
Policy Minimum Premium:	\$752 MO (INCLUDES INCREASED LIMIT MIN. PREM.)

Interstate/Intrastate Identification Number:

Labor Contractors Policy Number:

NAICS:
SIC: 7622

32839 *0100038RW82700101

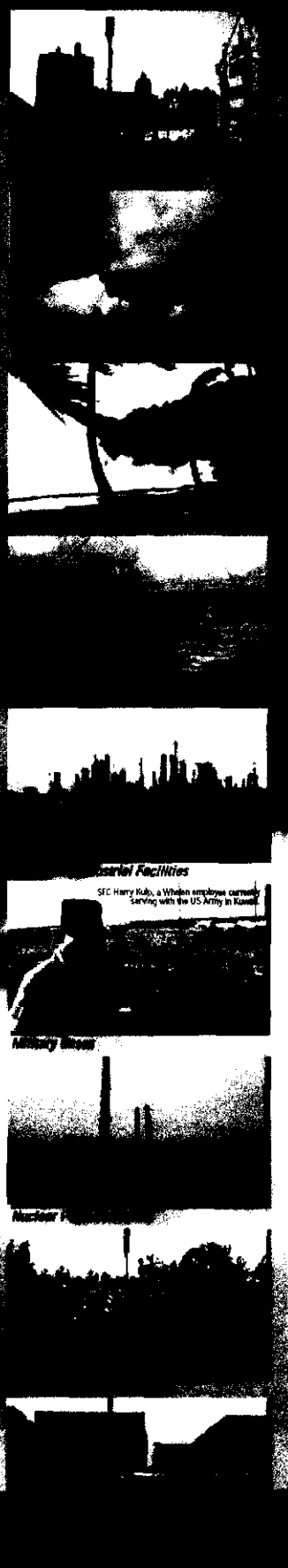
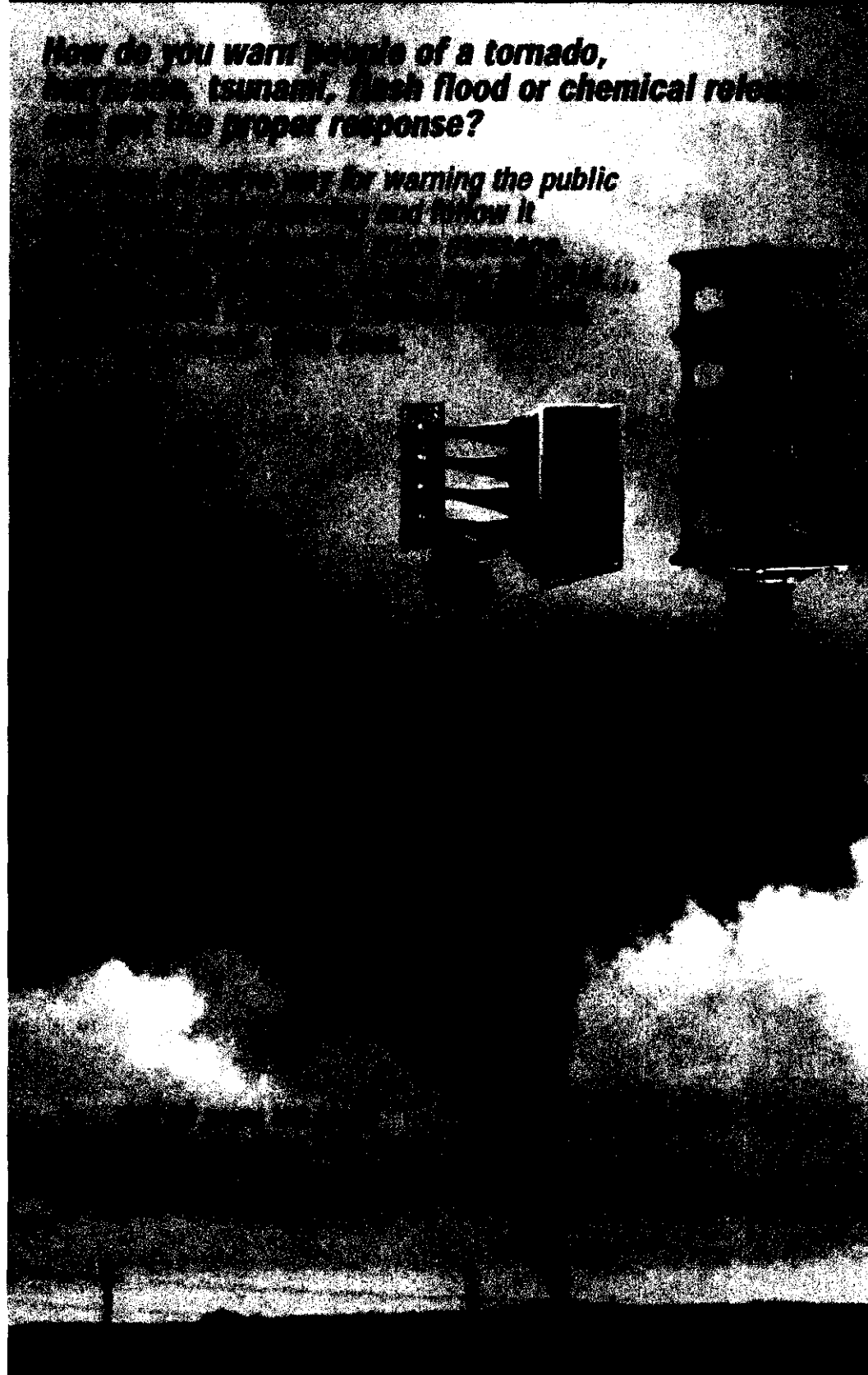
WHELEN[®] MASS NOTIFICATION PRODUCTS

Non-discriminating Warning Products for
Public & Industrial Applications!

*How do you want people of a tornado,
hurricane, tsunami, flash flood or chemical release
to get the proper response?*

*There is only one way for warning the public
and getting them to respond and follow it.*

*It's the way that has been used for over 50 years
and is still the most effective way to warn the public.*



MASS NOTIFICATION PRODUCTS

TO AND INFORM . . . with

How do you warn people of a tornado, flash flood or chemical release and get the proper response?

The most effective way for warning the public is to issue a tone warning and follow it with a clear and powerful voice message. This two step approach, ALERT and INFORM, will eliminate confusion, restore order and, most importantly, save lives.

Whelen produced the first reliable electronic Mass Notification Products thirty years ago—the first major innovation in public warning in many decades. Today, Whelen offers a family of products that integrates outdoor and indoor warning into a single unified system. Whelen is the first name in Mass Notification, with more products installed worldwide than any other manufacturer.

Whelen Mass Notification Systems serve many needs

- civil defense
- volunteer fire call
- county and municipal public warning
- industrial emergency warning
- employee alarm systems
- dam failure alerting
- prompt alert and notification for the nuclear power industry
- campus alert

Warning the public is a serious business. We do not compromise on quality and never will. Worldwide, community and industrial leaders turn to Whelen Engineering for the very best in mass notification systems.

A single Source for Design & Manufacture

At Whelen Engineering, we believe that the very best products are those which are designed from the outset to work together as a system. We don't patch our system together using other manufacturers' products.

Low Frequency Warning Tones are the Most Effective

At Whelen, we use low frequency (300 hz to 700 hz) warning tones because tones in this range penetrate most background noise and carry to greater distances than higher frequency tones.

Only from Whelen, A Low Frequency Speaker Driver

Designed exclusively for outdoor warning applications, Whelen's 400 watt speaker driver dwarfs all other commonly used speaker drivers. For performance, reliability and longevity, this speaker driver has been tested and certified to a minimum twenty year life cycle for the Government of Denmark.

The Electronics

We design our own state-of-the-art electronics to survive the harshest outdoor environments. Many components used in our products (such as the power transistors found in our power amplifiers) are hand-graded and matched to ensure quality and long-term reliability.

All products must follow a rigorous quality assurance program that provides traceability from the purchase of individual electronic components to final acceptance testing of the complete product.

All electronic components in our products are modular in design. That way, they can be used for a wide variety of applications; from the single volunteer fire call to complete and fully integrated emergency and civil defense warning systems.

Detailed Product Information

Individual product sheets are available for the products highlighted in this brochure.

Professional Sales Team

A team of dedicated professionals are ready to assist with matching the right products to your application. Assistance is available for acoustic surveys and system planning.

Warranty

At Whelen Engineering, we not only design and manufacture the best warning products available, we stand behind every product we make. For a copy of the best warranty in this business, write or email us at iowsales@whelen.com.

If You're Interested

in the most reliable, most up-to-date warning products and the service that comes with them, give us a call. Find out why Whelen Engineering is the first name in Mass Notification.



All Whelen Products are proudly made in the U.S.A.

Whelen Engineering's Charlestown, New Hampshire Facility



Whelen Engineering's Chester, Connecticut Facility

All Whelen products are made in the U.S.A. for use worldwide. We design and manufacture our systems at our plants in Chester, Connecticut and Charlestown, New Hampshire.



Outdoor Warning Products

All WHELEN Mass Notification Products feature the following:

- Battery operation.
- Six warning tones: Wail, Whoop, Attack, Hi/Lo, Alert and Airhorn.
- Local control or radio control.
- Minimum 15 or 30 minute operation depending upon model.
- SI TEST® (patented by Whelen) confirms the operation of AC power, partial or full operation of both the power amplifiers and speaker drivers, and rotor operation of rotating models.
- Pre-assembled, pre-wired and tested at Whelen's Chester, CT facility.

WPS2000 Series

- Ten models to choose from, producing from 109dB to 129dB at 100'.
- Field-replaceable, 400 watt EZ-PULL™ driver eliminates distortion and power loss found in competitive systems using multiple drivers per cell.
- Speaker array, electronics cabinet & cabling included.
- Voice capable through live public address and pre-recorded messages.
- Aerodynamic design presents a profile that is virtually unaffected by high winds.
- Aesthetic design is unobtrusive in both urban and rural landscapes.



2000 Removable Speakers Assembly



The horns slip on removable driver.



Use a hand saw to cut the driver.



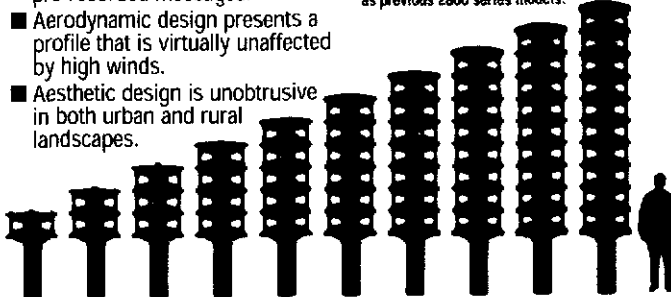
By using hand saw.



The driver is removed for servicing.

Whelen's 2000 Series have a removable driver for easy "in the field" maintenance.

Ten models serve a variety of applications and have the same features and specifications as previous 2800 series models.



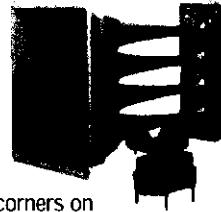
WPS4000 Series

- Rotating Series.
- Voice capable through live public address and pre-recorded messages.
- Mass Notification designed.
- "Long throw" warning at output power levels from 127db to 129dB at 100', sending tones and voice to distances beyond one mile.
- Speaker design features multiple high gain radial horns that enter into a single projector providing a controlled sound column of unequalled power, tone and voice clarity.
- One 400 watt driver is used per high gain radial horn.
- Heavy-duty, gear-driven rotor, and high-torque DC motor.
- Hard-wired connection between amplifiers and speaker drivers eliminates problems associated with conventional rotating devices using brushing commutators.
- Controlled vertical sound column minimizes exposure of high-level sound to persons at ground level.
- Public Address Quadrant Control. The WPS4000 speaker can be commanded by radio control to eight compass points for public address messages.
- Speaker array, electronics cabinet and cabling included.



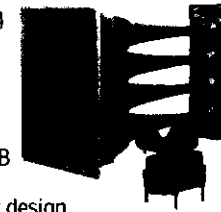
VORTEX™ Series

- Low-cost warning product yields reduced costs without cutting corners on quality, reliability & performance.
- These products are built with the same rugged power amplifiers and speaker drivers designed for outdoor warning and harsh environments which deliver powerful alerting without the problems associated with motor driven systems.
- Voice messaging is **NOT AVAILABLE** with Vortex Series.



VORTEX-R Series

- Rotating Series
- Output Power from 127dB to 129dB at 100'.
- Speaker design features multiple high gain radial horns that enter into a single projector providing a controlled sound column of unequalled power and tone clarity.
- Heavy-duty, gear-driven rotor.
- Economical alternative to the WPS4000 series.



Voice Option / Live Public Address

- The WPS2800 and WPS4000 Series offer digital voice capability and live public address, standard.
- Optional Remote Station Digital Voice Module (RDVM) stores up to 16 pre-recorded messages that may be activated by a brief radio command.
- 240, 480, or 960 seconds of recording time available. Select from the following options: RDVM240, RDVM480 or RDVM960.
- Custom messages relate to public warning situations appropriate to your community with your instructions.

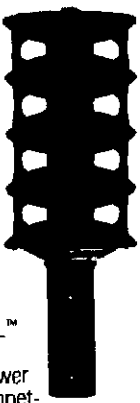
HORNET™ Series

- Economical rotating product with 6 distinct warning tones & SI TEST® (Voice messaging **NOT AVAILABLE** with Hornet Series).
- Output power levels to 118dB at 100'.
- Speaker array, electronics cabinet and cabling included.
- Straight-forward design reduces cost without cutting corners.
- Maintenance-free rotor.
- Battery powered, operates despite AC failure.
- Two batteries of our recommendation will provide 30 minutes of full power alerting.
- Requires 1/2 the battery power needed by DC powered mechanical sirens.
- Temperature compensated battery charger, assuring that batteries are charged to 100% capacity in all seasons and any kind of weather.



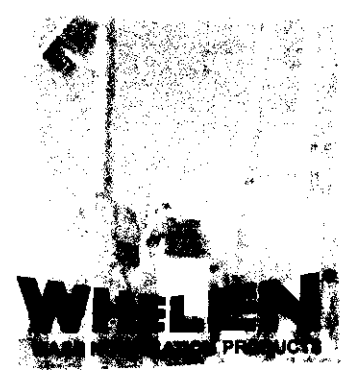
OMNI-ALERT™ Series

- Economical alternative to the WPS2900 Series provides tone only warning (Voice messaging **NOT AVAILABLE** on Omni-Alert).
- Four models, producing from 108dB to 118dB at 100'.
- Field-replaceable, 400 watt EZ-PULL™ driver eliminates distortion and power loss found in competitive systems using multiple drivers per cell.
- Speaker array, electronics cabinet and cabling included.



Solar Option (All Series)

- All Whelen Mass Notification Products are engineered to accept a solar option.
- For use when AC power is not available.
- Maintains and replenishes the battery supply.



WHELEN
MASS NOTIFICATION PRODUCTS

Electronic Cabinet Assemblies

- An electronic cabinet assembly is furnished with each WPS, OA VORTEX™, HORNET™ and SIPS Series System, appropriate to the speaker model selected.
- Cabinet assembly and reliable electronics are engineered and built to survive the harshest environments.
- Six warning tones are standard, Wail, Whoop, Attack, Hi/Lo, Alert, Airhorn. Alternate tone set is available for Industrial Applications.
- Live Public Address and Digital Voice Message capability in the WPS Series and SIPS Series.
- Local Controls, standard.
- Battery power source for a minimum of 30 minutes operation without AC power, standard in WPS Series.
- Optional one-way and two-way radio controls that are fast, secure and reliable.
- SI TEST®, silent test feature, patented by Whelen, examines and confirms each warning product's operational capability without disturbing the public.
- Optional Remote Station Digital Voice Module, RDVM, stores up to 16 pre-recorded messages. Messages may be activated by a brief radio command.
- Pre-assembled, pre-wired and tested at Whelen's plant.

The Cabinet

Electronic cabinet assemblies are offered in a natural finish aluminum eliminating the long term costs associated with maintenance painting and rust prevention. Cabinet assemblies consist of two or more compartments; the top compartment houses the system's electronics and the bottom compartment(s) house the heavy-duty battery supply necessary to provide continuous operation without AC power.

The Electronics

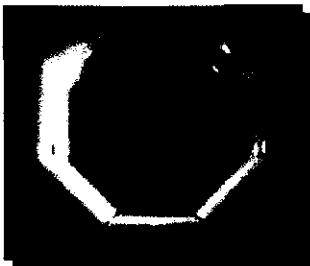
Field proven tough and reliable, Whelen's reputation for excellence, reliability, power, tone and voice clarity begins with its electronics. Electronics are mounted on swing-out panels inside the electronics compartment. All modules can be tested while they are on-line and working together as a system.



Type II Electronics Assembly detail.

Microprocessor-based Controller

Whelen's Electronic Controller maintains precision control of the remote station, including tone generation, event timing and overseeing remote station operation.



Our products are wind tunnel tested to insure performance in the most trying conditions.

Power Amplifier

Each cabinet assembly includes 1 to 10 power amplifiers, depending on the model selected. Power amplifiers feature rugged die cast construction, short circuit protection, current limiting, and individual fuse protection. LED service indicators are included to verify a complete circuit between each power amplifier and speaker driver. Providing effective voice communication at alerting ranges, Whelen power amplifiers increase their output by at least 25% when in the voice mode of operation.

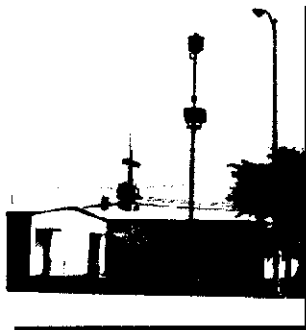
Battery Charger

Designed for unattended operation, the battery charger maintains the batteries in a standby power mode. The battery charger is temperature compensated to ensure that batteries are charged to 100% capacity from the hottest summer day to the coldest winter night. The battery charger also features current limiting and a low battery voltage cutoff, which ensures safe and reliable operation.

In the event of a power failure, the battery disconnect circuit, a standard feature on all Whelen Mass Notification Products, takes all modules within the cabinet assembly off-line (except for the Electronic Controller and Radio Link). This reduces standby current consumption, conserving the battery supply for an emergency activation for up to two weeks following the loss of AC power.

Solar Regulator

For use when AC power is not available, Whelen's solar regulator works with appropriately sized arrays of solar panels to maintain and replenish the remote station's battery supply. The solar regulator is temperature compensated to provide optimum charging in all temperature conditions.



Whelen Mass Notification Product with Solar Regulator in the field.

One-Way and Two-Way Radio Controls

One-Way receiver decoder packages responding to Whelen's fast, secure and reliable COMM/STAT™ communications protocol and are available in most radio bandwidths. Two-Way remote station control and status monitoring packages, operating with Whelen's COMM/STAT communications protocol and a 2-4 watt transceiver, and are available in most bandwidths. Whelen's protocol is DTMF. This protocol is used today and has been used for years in communications. It is reliable and proven in communicating under adverse conditions. However, our equipment will also operate in many other formats, including FSK.

SI TEST®, Diagnostic Silent Test

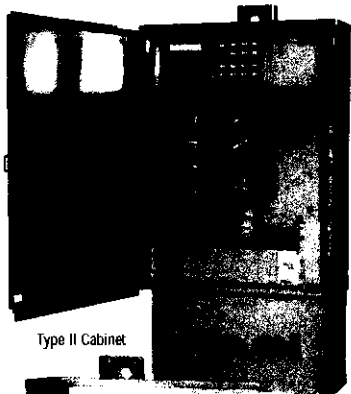
Patented by Whelen, a means to fully test a remote station without disturbing the public, SI TEST® confirms the operation of AC power, DC power at operating levels, Partial or Full Amplifier/Speaker Driver Operation and Rotor Operation (WPS4000, VORTEX™ and HORNET™ Series).

Digital Voice

Whelen's Remote Station Digital Voice Module, RDVM, delivers distortion-free voice messages that are pre-recorded at the factory and optimized for power and clarity. Up to 16 variable length messages of 240 or 480 seconds may be stored on the RDVM board.



Our electronics assembly area is staffed with the most dedicated professionals in the industry.



Type II Cabinet



Type III Cabinet

WHELEN®
MASS NOTIFICATION PRODUCTS

Industrial Warning

Whelen industrial warning products may take advantage of all the warning tools that community based systems use: central station controls for activation and status monitoring, mass notification, and alert monitor/message displays. In-plant, distributed speaker systems are often needed for indoor and other special applications. For these applications, Whelen offers two solutions: the IPS400/800 and the SIPS400/800.

IPS400/800, In-Plant System

The IPS400/800 contains within its two-compartment, natural finish aluminum cabinet; electronic controller, one or two power amplifiers, a driver board, two gel-cell batteries and battery charger.

- Tone and Voice warning may be distributed from the IPS400/800 to individual speakers within a building.
- Each 400 watt power amplifier has four 100 watt channels. Each 100 watt channel may be used with one 100 watt speaker driver or a combination of transformer coupled speakers of lower power.
- A wide variety of speakers are available, including special speakers for explosive atmospheres.
- The deployment of multiple IPS400/800 systems, typically managed by wireless control, offers significant savings compared to central amplifier systems.
- Six warning tones and public address, standard.
- Local controls, standard.
- Battery power source for up to 30 minutes of continuous operation, without AC power, standard.
- One-way and Two-way radio controls that are fast, secure and reliable.
- Optional Remote Station Digital Voice Module, RDVM, stores up to 16 pre-recorded messages of variable lengths. Standard message memory storage is 240 or 480 seconds. Messages may be activated by a brief radio command.

SIPS400/800

The SIPS400/800 incorporates all features available with the IPS400/800 and adds the capability of supervising peripheral devices, such as speakers and strobe lights, in an IPS application.

Two types of supervision are offered: end-of-line (EOL) supervision or device level supervision. EOL supervision is similar to fire alarm supervision. EOL supervision detects a break in the line between the speaker and amplifier unit.

Device level supervision monitors the operation of the individual devices (speakers or strobe lights) with the addition of a node to each device. If the device has a failure, an output relay closure signals the control cabinet of a fault. Finding a defective speaker or strobe within the system is easy with the SIPS400/800. The node for the faulty device will indicate failure with a visible illuminated LED.

Both types of supervision can be mixed in the same system.



Type 1 Cabinet

System Accessories for Supervised In-Plant Warning Systems



Model WS100TCC
Wide angle,
100 Watt Speaker with
weatherproof housing



Model WS30TC
Wide angle,
30 Watt Speaker



Model WS15TENC
Recessed mount, 15 Watt
Speaker with grille



Model WSX60TC
Explosion-proof
60 Watt Speaker



BASE STATION EQUIPMENT

Whelen Products are Pre-Assembled, Pre-Wired and Tested at our Facility to Ensure Product Quality & Reliability!



Testing Station



2900 Series Speakers Assembly



4000 Series Speakers Assembly

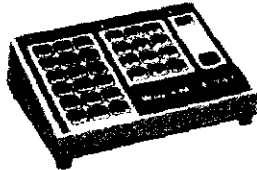


Repair Facility

Whelen sets the standard in the industry for fast, secure and reliable one-way and two-way control and status monitoring products for public warning systems. Whelen's COMM/STAT™ 10/14 communication protocol is used in both our one-way and two-way base station products. DTMF signalling is standard, however, our equipment will also operate in many other formats, including FSK.

One-Way Controls

E747 Encoder



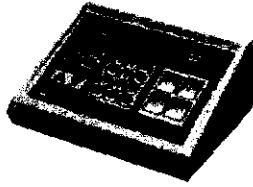
Ideal for small systems, the E747 encoder allows the activation of 1-10 products, individually or as a group, and the selection of 18 different functions.

- Furnished in an attractive and compact desktop enclosure, the E747 is perfect for use where space is at a premium.
- Membrane keypad features raised keys with tactile response.
- May be used for mobile applications.
- Microphone input.



RF Chamber

E969 Encoder

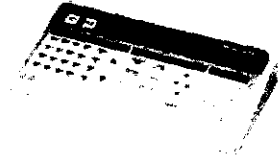


For medium to large-scale systems, the E969 encoder provides for the control of up to 9,999 products individually, in groups or altogether, and the selection of 35 functions. User friendly. Multi-step activation scenarios may be programmed into encoder's "Call Keys."

- LCD display presents command menu, address selections, "Call Key" programming information, time of day and date in stand-by mode.
- Four "Call Keys" on keyboard provide simple and fast two-step activation of most warning scenarios (Select "Call Key", Press Send).
- Four additional "Call Keys" available. Two keys used for programmable time of day transmits such as NOON TEST; two keys are used for activation of a warning scenario via remote input (Provides the ideal integration of local public warning system and our inplant system devices).
- User programmable via keyboard entry or by personal computer via RS-232 port.
- Microphone input.

Two-Way Controls

E2010 Central Station Control



Encoder/Decoder

The E2010 simplifies the work involved in system activation and status monitoring. Control your products individually, in groups, or altogether.

The E2010 supports all of the features that are available in Whelen's Mass Notification Product line, from individual command selection to user programmed command scenarios or "Call Keys". With the selection of one Call Key, an operator may prompt the encoder to issue multiple commands.

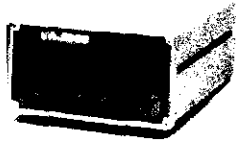
With the included computer accessory software, you can connect the E2010 to your PC for Windows® based programming and data archiving. Data is available through a Microsoft® ACCESS database.

- Four line by 40 character backlit LCD display.
- Provides system accountability. Every transaction is logged with a time and date stamp. You can hard drive archive all activity.
- Selective printouts for status by location or date.
- Sixteen "HOT" Call Keys.
- Forty auxiliary Call Keys.
- Two time-of-day Call Key activators.
- Four remote input Call Keys.
- Automatic system polling.
- Internal alarm tone.
- Two contact closure outputs for alarms.
- Security keylock.
- Printer port.
- Battery back-up for time and date features.
- Rugged membrane keyboard.
- Microphone input for public address.
- Desktop and rack mounted configurations available.

WHELEN®
MASS NOTIFICATION PRODUCTS

Indoor Warning

VA2000



Alert Monitor and Message Display

The VA2000 extends the reach of a warning system delivering urgent text-based information to homes, schools, hospitals, businesses, industrial facilities, government offices, and emergency vehicles.

Whelen's VA2000 provides instant information that defines the emergency condition and prompts the correct response, eliminating confusion and saving lives.

When activated, the VA2000 will sound a piercing alarm, flash a high intensity LED, and display one of up to 60 pre-programmed messages on an easy to read display. Messages remain on display until the unit is reset.

- Two line by 16 character backlighted LCD display.
- Messages may be up to 96 characters.
- Displays up to 60 messages.
- Responds to Whelen® COMM/STAT™ 10/14 DTMF protocol and other DTMF formats. May be activated individually, in groups or altogether.
- Available in most radio formats.
- Messages and activation codes are user programmable via personal computer.
- Audio option adds capability to receive live voice announcements via radio frequency. Option includes low power speaker, 600 ohm audio output and relay contact.
- Battery back-up option provides 24 hours of standby capability in the event of AC power failure.

VA300



Alert Monitor with Instant Audible Emergency Information

Expand the reach of your public Mass Notification System with the VA300. When disaster strikes, deliver urgent and critical emergency information directly to: homes, schools, hospitals, business/industrial facilities, government offices, and emergency vehicles.

When activated, the VA300 will sound a piercing alert tone for about 5 seconds, flash a high intensity LED and enable an audio speaker to monitor radio activity and close a relay.

- Simple and easy to use Clear & Test controls.
- Audio level adjustable.
- Continuously monitors local public warning system radio frequency and reacts the instant a live Public Address announcement or warning is transmitted.
- Commercial grade receiver.
- Responds to activation commands from Whelen's Series of DTMF base station controls. May be activated individually, in groups or altogether "All Call" in the same manner used for Whelen Mass Notification Systems.
- Includes 1/2 amp relay contact and internal antenna.
- External outdoor antenna, BNC antenna connector and local chassis mount antenna are optional.



Vortex™ and WPS4000 Series speaker arrays conform to very rigid & exact quality specifications.

Standing tall and vigilant, a Whelen WPS2905 Series 5 cell speaker array on duty 24/7 for warning protection from any hazardous situation that may suddenly arise.

Whelen Products are used by many communities in all types of industrial, commercial and residential applications.



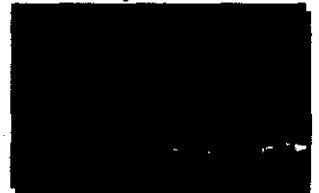
Emmitsburg, Maryland



Abbeville, Alabama



Columbus, Georgia



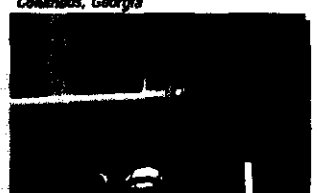
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Milford, Connecticut



Columbus, Georgia



Houston, Texas



La Plata, Maryland

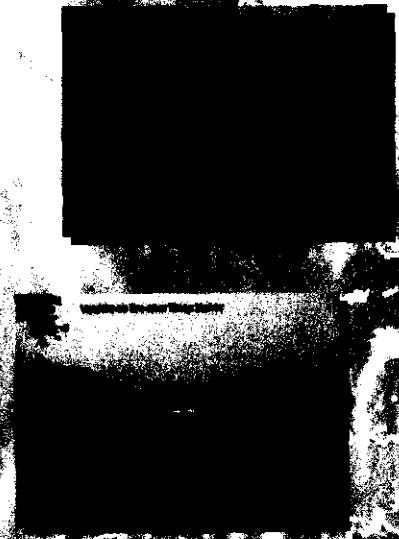
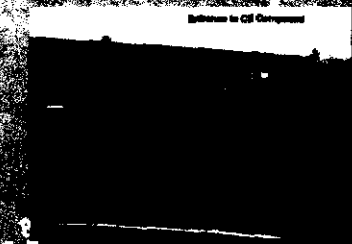
WHELEN[®]
MASS NOTIFICATION PRODUCTS

Mass Notification Products... "In the Field"

Whelen Mass Notification Products still standing after Hurricane Katrina

At the Biloxi Marine Center, Biloxi Marine Center is the premier electronics and communications center in the Biloxi Marine Center. The center is a state-of-the-art medical facility with a state-of-the-art medical facility.

Three days after the hurricane, the center was still standing and operational. The center is a state-of-the-art medical facility with a state-of-the-art medical facility.



WHELEN

ENGINEERING COMPANY INC.
MASS NOTIFICATION PRODUCTS

55 Ashthrop Road
Chester, Connecticut 06412-0001

Phone: (860) 526-9504 • 1-800-832-4226 • Fax: (860) 526-9505

www.whelen.com • info@whelen.com

VORTEXR4

WHELEN®

All Hazard High-Power Siren System

Whelen's VORTEXR4 Series All Hazard High Power Sirens provide an economical alternative for powerful siren communication without compromising quality.

SYSTEM FEATURES

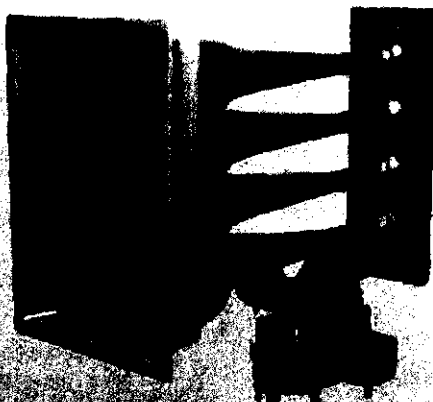
- VORTEXR4 - Speaker with Four Speaker Cells Active
- Two Compartment (Type I) Natural Finish Aluminum Cabinet
- 129dB @ 100'
- VORTEXR4 Speaker Includes Four High Efficiency 400 Watt Speaker Drivers
- 50' Cable Included
- Battery Powered, Minimum of 15 Minutes of Full Power Output with Batteries of Our Recommendation
- AC Temperature Compensated 5 Amp Battery Charger
- Local Controls or Remote Controls
- Four Tone-Only Power Amplifiers
- Clear Display Tone
- Emergency Tones Indicator
- Tone Chirpers
- Tone
- Tone Duration Pulse Outputs
- Tone Frequency Control
- 12VDC
- 12VDC

SIREN ACTIVATION CONTROLS

Our VHF High and UHF siren activation control packages include the following:

- Radio
- Radio Interface
- Tone Squelch
- 2-3dB Gain Omni-Directional Antenna with Bracket
- 35' of RG58 Antenna Cable
- Polyphaser
- SI TEST*

Other features are dependant upon one or two-way controls. Whelen equipment can be interfaced with many different types of two-way radio communications products and systems including 800Mhz trunking, Motorola's MOSCAD, FSK, Narrow-Band and VHF Low Band. The following is available as standard options. Contact factory for special applications.



ONE-WAY CONTROLS

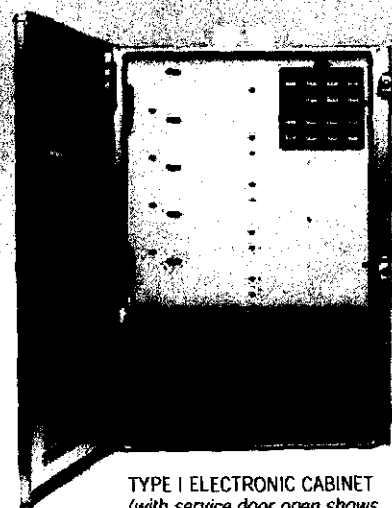
- VAUXIN - Auxiliary Board for Contact Closure Activation
- VD2020LL - 10 Digit DTMF Landline Activation
- VD2020H - 10 Digit DTMF VHF High Band / 150-170 Mhz
- VD2020U - 10 Digit DTMF UHF / 450-470 Mhz
- VORTT - Two-Tone Sequential Option

TWO-WAY CONTROLS

- VAUXCS - Two-Way Contact Closure Activation and Status Board
- VC2020LL - Two-Way Landline Activation
- VC2020H - 10 Digit DTMF VHF High Band / 150-170 Mhz
- VC2020U - 10 Digit DTMF UHF / 450-470 Mhz
- VC2020NH - 10 Digit DTMF VHF High Band Narrow-Band
- VC2020NU - 10 Digit DTMF UHF Narrow-Band

Options:

- VFSKXMOD - Converts the Siren Activation Controls to FSK Format
- VSTATUS - Cabinet Window LED Status Indicator
- VPGINT - Paging Interface to Interface Whelen Tones with Existing Paging Systems
- VINTRU - Intrusion Alarm (available with two-way only)



TYPE I ELECTRONIC CABINET (with service door open shows control panel and battery tray with optional batteries).

VORTEXR4

Specification Data

	Inches (CM)	Inches (CM)	Inches (CM)	Lbs. (kg)
VORTEXR4 Speaker & Rotor	49.0 (124.5)	28.5 (72.4)	56.0 (142.2)	234 (106.1)
Electronics Cabinet - Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	83 (37.7)*
Pole Top Bracket (Optional)	30.0 (76.2)	12.0 (30.5)	10.0 (25.4)	71 (32.3)

* Less batteries. Two batteries, Delco DC74, add 90 Lbs. (40.9kg)

ELECTRICAL

- Battery charger input: 120VAC, 60Hz, 7A Fuse
 - Battery charger output: 28VDC, 5A#
 - Batteries: 2-12V, 60AH Lead Calcium (user supplied)
 - Standby current: 40mA
 - Rotor motor: <1A, 24VDC
 - Operating current: 88A, 24VDC
 - Power amplifier output power: 1600 Watts
- # UL recognized component

ENVIRONMENTAL

- Operating Temperature: -35C to +60C
- Storage Temperature: -65C to +125C
- Humidity, Non Condensing: 0 to 95%

ORDERING INFORMATION

BASIC SYSTEM INCLUDES ALL OF THE FOLLOWING:

- VORTEXR4 - Speaker Assembly & Electronics Cabinet
- OPTIONS:**
- VAUXIN - Auxiliary Board for Contact Closure Activation
 - VAUXCS - Auxiliary / Status Control Board for Contact Closure Activation and Status
 - VD2020LL - VD2020H, VD2020U - One-Way Radio Control ①
 - VC2020LL, VC2020H, VC2020U - Two-Way Radio Control / Status Monitoring, COMM/STAT™ ①
 - VC2020NH, VC2020NU - Two-Way Narrow-Band Radio Control / Status Monitoring, COMM/STAT™ ①
 - VORTT - Two-Tone Sequential
 - VFSKXMOD - FSK Format
 - VSTATUS - Cabinet Window LED Status Indicator
 - VPGINT - Paging Interface to Interface Whelen Tones with Existing Paging Systems
 - VINTRU - Intrusion Alarm
 - VSBC80 - Solar Power ②
 - VPTB - Speaker Pole Top Bracket
 - BSETVOR - One Pair of Batteries

NOTES

- ① 10 digit DTMF Controls • Landline • VHF High Band/150-170 Mhz • UHF/450-470 Mhz
Our VHF High and UHF siren activation control packages include tone squelch, radio, radio interface, 2-3dB gain omni-directional antenna with bracket, 35' of RG58 antenna cable and polyphaser.
- ② Solar power option includes 2 - 80 watt panels, mounting bracket and regulator
- ③ Contact Factory

Acoustic Performance

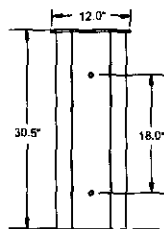
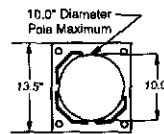
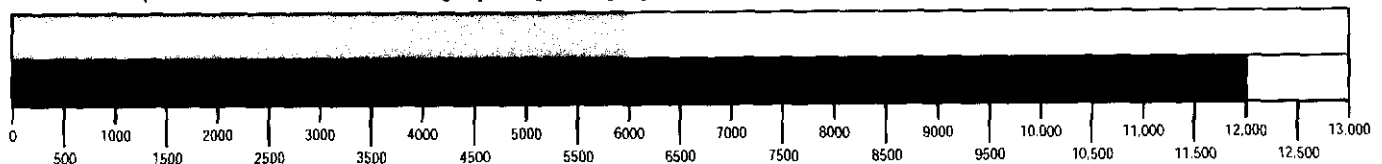
SPL @ 100': 129dB

Estimated 70dB range: 6,000'

Estimated 60dB range: 12,000'

Note: 100' performance levels listed represent repeatable results within +/-2dB to stated levels.

Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.



Pole Top Bracket
(Optional VPTB)

WHELEN[®]
ENGINEERING COMPANY, INC.
PUBLIC WARNING PRODUCTS

Route 145, Winthrop Road
Chester, Connecticut 06412-0684

(860) 526-9504

1-800-637-4736

Fax: (860) 526-4784

Internet: www.whelen.com

e-mail: iowsales@whelen.com

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with design improvements without notification.
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041806-11358C

E2010 CENTRAL STATION CONTROL

WHELEN®

Encoder/Decoder

Control and monitor your siren warning system from a central location. The E2010 allows the user to issue system activations and collect remote siren status via RF link or landline.

Features Whelen's field proven COMM/STAT™ Command and Status Monitoring protocol, for fast, secure, and reliable communication.

The E2010 supports all of the features that are available in Whelen's High-Power Voice and Siren product line, from individual Command selection to user programmed command scenarios or Call Keys. With the selection of one Call Key, an operator may prompt the encoder to issue multiple commands.

With the included computer accessory software, you can connect the E2010 to a PC for Windows® based programming and data archiving. Data is available through an ACCESS® data base.

E2010 FEATURES

- 4 line by 40 character backlit, LCD display
- 16 "HOT" Call Keys
- 40 Auxiliary Call Keys
- 2 Time-Of-Day Call Key Activations
- 4 Remote Input Call Keys
- Automatic System Polling
- Internal Alarm Tone
- 2 Contact Closure Outputs for Alarms
- Base Radio Interface
- Channel Grant Input for Trunking Radio Systems
- Optional FSK Signaling
- Security Keylock
- Printer Port
- Battery Backup for Time and Date
- Rugged, Membrane Keyboard
- Microphone for Public Address E2010

COMPUTER INTERFACE FEATURES

- CD-ROM and 9 Pin "D" Cable included
- "Windows™" Based Call Key Programming
- Add Call Key Descriptions
- Hard Drive Archive of All Siren Activity
- Selective Printouts for Status by Siren Location or Date



E2010 CENTRAL STATION CONTROL

Specification Data

GENERAL

The E2010 Central Station Control is configured to make maximum use of Call Keys or preprogrammed scenarios. In addition, commands are grouped into easy to follow categories for Warning Tones, Digital Voice Messages, Direction (if applicable) and Status. A numeric keypad section allows for individual remote siren addressing.

A 4 line by 40 character LCD display shows all Keyboard and Status activity. Command and Status information are also sent to a printer port and a serial communication port for a PC.

All preprogrammed functions are stored in non-volatile memory. Time and date are protected by internal, rechargeable batteries.

A keylock is available to disable the keyboard, but all status information is still active.

COMPUTER REQUIREMENTS

PC with 486DX or Higher CPU
WINDOWS® 95 or 98
CD-ROM Drive
Comm. Port

Hard Disk Space Required:
8 MB

PRINTER OPTION

Optional. 9 pin, dot matrix, 120 CPS, tractor feed, with parallel cable. Designed to be used with an Okidata #184 printer.

COMMUNICATIONS

Transmitter Connection:
(Typical 1 of 2 transmitters)

Squelch

Push to Talk
(N.O., N.C. Contacts)

Transmit Audio

Receive Audio

Channel Grant Active (for Trunking)

Signaling:
DTMF 2 of 8 Format. 10 Digit Transmit. 14-18 Digit Receive.

Tone Level:
Audio Level Adjustable.

Transmitter Delay:
User Selectable Delay Times.

DIMENSIONS

Height: 3"

Width: 17"

Depth: 9"

Weight: 4.5 lbs.

ELECTRICAL

120 VAC, UL Listed, Wall Mount Transformer.

ORDERING INFORMATION

E2010
Central Station Control Unit.

E2010R
Central Station Control Unit (Rack Mount).

E2010P
Printer Option for Okidata #184 Printer and Cable.

E2010FSK
FSK Internal Option.

WHELEN®

ENGINEERING COMPANY, INC.

PUBLIC WARNING PRODUCTS

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Whelen Engineering Company, Inc.
reserves the right to upgrade its products with
design improvements without notification.
Tornado photo courtesy NOAA/NSSL.
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070105-10884C

City of Jonesboro
Invitation to Bid - Not an Order

P.O. Box 1845
 515 West Washington Ave. (72401)

Purchasing Office

Bid No. 2008:18

Jonesboro, Arkansas 72403

Date May 23, 2008

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at this office until **2:00pm Thur June 12, 2008** and then publicly opened, for furnishing the supplies, materials and/or services as described below and tabulated for presentation to the City Council on n/a.

F.O.B. Jonesboro
 Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City 30 days.

By: **Steve A. Kent**
 Purchasing Agent
 (870)932-0740

Item	Description	Quantity	Unit	Unit Price	Amount
	<p>SCOPE:</p> <p>The City of Jonesboro is accepting bids for the following equipment. The following minimum specifications are considered necessary to perform the work required. The equipment specified, in order to establish a basis of design, performance, and quality, is based on Federal Models. Manufacturers' published literature must clearly show that the products being offered are in compliance with these specifications. All equipment furnished under this contract shall be new and manufacturer's current production model unless stated otherwise. Accessories, not specifically mentioned herein but necessary to furnish a complete unit ready for use, also shall be included. Units are to be installed by the Bidder.</p> <p><u>If any of the equipment bid varies from the specifications, such variation(s) must be listed in writing and attached as part of the bid proposal.</u> The City of Jonesboro reserves the right to waive minor variance(s) if in the opinion of the Police Department that the basic bid meets the general intent of these specifications.</p> <p>State Make and Models being bid: <u>AMERICAN SIGNAL T-128</u></p> <p>Warranty explanation <u>5YR. MECHANICAL 2YR. ELECTRONICS 7/3YR. BATTERIES</u></p> <p>Estimated time of delivery: <u>30-45</u> days</p> <p>Bid number (2008:18) <u>must</u> be annotated on the outside of bidder's envelope. Bid must be signed or bid will be rejected. Email address: <u>NICKI @ PARAGOULDCOMMUNICATIONS.COM</u> Does bidder meet ALL specifications? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Bidder shall have and attach to this bid a copy of proof that bidder has and maintains worker's comp insurance and sufficient liability insurance. Any accidents and/or destruction of property not owned by the bidder shall be covered and/or replaced if damage occurs.</p> <p>The City of Jonesboro will supply any and all electrical that is required for installation. Bidder will supply any and all electrical from the outlet to equipment.</p> <p>Any addendum to this bid will be posted on the Purchasing web site no later than 1 week before bid opening. See page 2 for web address.</p> <p>Maintenance agreement for entire system per year: <u>\$3500 ONCE PER YEAR</u> Price shall remain firm for a 3 year period at which time the City may negotiate continuance for two (2) additional years. Please attach an expiation to explain maintenance agreement... What is covered/what is not.</p>				
	Cash Discounts _____ % _____ Days				

Execution of Bid

Date 6-10-2008

We, the undersigned, have read all the requirements set forth in this bid proposal including specification, instructions, conditions and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices stated.

Arkansas Use Tax Register No. 11333-28-001

Phone # (870) 236-0486

Bidder PUBLIC SAFETY SYSTEMS, INC. Address 100 ARNOLD LANE

By [Signature] PRESIDENT City PARAGOULD
 (Person Authorized to Sign Bids) (Title)

Unsigned Bids Will Be Rejected

**Bids number MUST be annotated on Bidder's envelope.
 Bids are subject to rejection unless submitted on this form.
 Notice to bidders: See reverse side for instructions and conditions.**

CITY OF JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR CONSIDERATION OF THIS BID:

1. **SIGNATURE** - This bid must be signed with the firm name and by an authorized officer, employee, or agent.
2. **SALES OR USE TAX** - is not to be shown in the bid price (unless otherwise stated) but is to be added by the vendor to the invoice billing to the City. The City is not exempt from Arkansas State Sales & Use Tax. Although Use Tax is not included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
3. **FREIGHT & OTHER DELIVERY CHARGES** - to designated City facility in Jonesboro must be included in bid. Charges may not be added after the bid is opened.
4. **DISCOUNTS** - Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise City will deduct allowed discount when payment is made.
5. **FIRM PRICE** - All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the City or bidder.
6. **IDENTICAL BIDS** - In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between the said two or more bidders at the discretion of City.
7. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
8. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
9. **CONSTRUCTION** -
 - A. When noted, the Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A performance Bond equaling the total amount of any bid exceeding \$3,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Ark. Stat. SS51-632.SS51-565 as amended.)
10. The City reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
11. **Minority Business Policy** - It is the policy of the City of Jonesboro that minority business enterprises shall have the maximum opportunity to participate in the city purchasing process. Therefore, the City of Jonesboro encourages all minority businesses to compete for, win and receive contracts for goods, services, and construction. The city also encourages all companies to subcontract portions of any city contract to minority business enterprises.

INSTRUCTIONS TO BIDDERS

(PLEASE READ CAREFULLY)

1. Submit bid on bid form on reverse side of this sheet. NO Facsimiles will be accepted.
2. Address all bids to: Purchasing Agent, P.O. Box 1845, Jonesboro, Arkansas 72403-1845 and make certain to indicate identifying bid number on the outside of bidder's envelope.
3. DO NOT include Federal Excise Tax in bid. City will furnish exemption certificate.
4. State Manufacturer, Brand Name, Model, etc for each item bid on.
5. Samples of items, when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will be disposed of by City
6. Bids received after stated time will not be considered.
7. Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission
8. Guarantees and warranties should be attached as a part of the bid as they may be a consideration in awarding a contract.
9. Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
10. Additional information may be obtained from the Purchasing Office.

THE CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.

Click on Purchasing at www.jonesboro.org for any additional information.

Specifications and bid sheet for bid:

Unit Total

2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:

1.	17	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3329. ⁷⁶	\$ 56,605. ⁹²
2.	17	Voltage Sensor Package	\$ 59. ⁸²	\$ 1016. ⁹⁴
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ 195. ⁰⁰	\$ 3315. ⁰⁰
4.	17	Removal of Existing Control Unit	\$ 250. ⁰⁰	\$ 4250. ⁰⁰
5.	17	Installation of 2-Way Siren Control Unit	\$ 1620. ⁰⁰	\$ 27,540. ⁰⁰
TOTAL				\$ 92,727. ⁸⁶

2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren

1.	9	Rotating Siren (130db) w/ pole mount	\$ 5774. ⁵⁴	\$ 51,970. ⁵⁹
2.	9	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3329. ⁷⁶	\$ 29,967. ⁸⁴
3.	9	Voltage Sensor Package	\$ 59. ⁸²	\$ 538. ³⁸
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ 195. ⁰⁰	\$ 1755. ⁰⁰
5.	9	Removal of existing siren equipment	\$ 750. ⁰⁰	\$ 6750. ⁰⁰
6.	9	Install (Includes 50' 60' Class II Wood Pole)	\$ 4720. ⁰⁰	\$ 42,480. ⁰⁰
TOTAL				\$ 133,461. ⁸¹

2001-130 AC Siren Additional Sites to increase coverage

1.	12	Rotating Siren (130db) w/ pole mount	\$ 5774. ⁵¹	\$ 69,294. ¹²
2.	12	AC Siren Control Unit (FSK / 2-way / VHF)	\$ 3329. ⁷⁶	\$ 39,957. ¹²
3.	12	Voltage Sensor Package	\$ 59. ⁸²	\$ 717. ⁸⁴
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ 195. ⁰⁰	\$ 2340. ⁰⁰
5.	12	Install (includes 50' 60' Class II Wood Pole)	\$ 4720. ⁰⁰	\$ 56,640. ⁰⁰
TOTAL				\$ 168,949. ⁰⁸

Activation Points Encoder, Software, Installation & Training

1.	2	FSK Encoder (Desktop or RackMount) ASC 960 FSK CONTROLLER ASC 960, DELL PC w/COMPUTERT, CONTROL RABD & ANTENNA	\$ 3423. ²⁸	\$ 6,846. ⁵⁶
2.	2	Installation of SS2000D Encoder	\$ 2400. ⁰⁰	\$ 4800. ⁰⁰
3.	2	Digital Command Computer Software (Up to 255RTU's) INCLUDED IN	\$	\$
4.	2	Dell Desktop PC w/COMPUTERT LOADED, 17" FLAT SCREEN & PRINTER	\$ 4344. ³³	\$ 8688. ⁶⁶
5.	1	System Optimization for Secundare Control Point NOT NEEDED	\$	\$
6.	1	System Optimization and Complete Training Package	\$ No CHARG	\$
7.	1	Client Server Software (Internet Monitoring & activation) NETWORK DRIVER	\$ 750. ⁰⁰	\$ 750. ⁰⁰
TOTAL				\$ 21,085. ²²

GRAND TOTAL OF ALL 4 SECTIONS

\$ 416,223.⁹⁷

Specifications and bid sheet for bid: Same Specs but with AC/DC operation Unit Total

2-Way FSK DC Control Unit (VHF) upgrade existing 2001 Siren units to 2-way:

1.	17	AC Siren Control Unit (FSK / 2-way / VHF) + DC	\$5492. ¹⁶	\$93,366. ⁷²
2.	17	Voltage Sensor Package	\$ 59. ⁸²	\$1016. ⁹⁴
3.	17	Omni-Directional Antenna w/ coaxial cable	\$ 195. ⁰⁰	\$3315. ⁰⁰
4.	17	Removal of Existing Control Unit	\$ 250. ⁰⁰	\$4250. ⁰⁰
5.	17	Installation of 2-Way Siren Control Unit	\$ 1800. ⁰⁰	\$30,600. ⁰⁰
TOTAL				\$ 132,548. ⁶⁶

2001-130 AC Siren replacements - Replace ACA and Sentry Sirens w/130db Siren

1.	9	Rotating Siren (130db) w/ pole mount	\$5774.51	\$51,970.59
2.	9	AC Siren Control Unit (FSK / 2-way / VHF) + DC	\$5492. ¹⁶	\$49,429.44
3.	9	Voltage Sensor Package	\$ 59. ⁸²	\$538.38
4.	9	Omni-Directional Antenna w/ coaxial cable	\$ 195. ⁰⁰	\$1755. ⁰⁰
5.	9	Removal of existing siren equipment	\$ 750. ⁰⁰	\$6750. ⁰⁰
6.	9	Install (Includes 50' 60' Class II Wood Pole)	\$4850. ⁰⁰	\$43,650. ⁰⁰
TOTAL				\$154,093.41

2001-130 AC Siren Additional Sites to increase coverage

1.	12	Rotating Siren (130db) w/ pole mount	\$5774.51	\$69,294.12
2.	12	AC Siren Control Unit (FSK / 2-way / VHF) + DC	\$5492. ¹⁶	\$65,905.92
3.	12	Voltage Sensor Package	\$ 59. ⁸²	\$717.84
4.	12	Omni-Directional Antenna w/ Coaxial Cable	\$ 195. ⁰⁰	\$2340. ⁰⁰
5.	12	Install (includes 50' 60' Class II Wood Pole)	\$4850. ⁰⁰	\$58,200. ⁰⁰
TOTAL				\$196,451. ⁸⁸

Activation Points Encoder, Software, Installation & Training

1.	2	FSK Encoder (Desktop or RackMount) ASE 960 FSK CONTROLLER	\$3423. ²⁸	\$6,846. ⁵⁶
2.	2	Installation of SS2000D Encoder ASE-960, DELL PC w/COMPUERT CONTROL RADIO + ANTENNA	\$2400. ⁰⁰	\$4800. ⁰⁰
3.	2	Digital Commander Software (Up to 255RTU's) COMPUERT INCLUDED IM	\$	\$
4.	2	Dell Desktop PC w/COMPUERT LOADED, 17" FLAT SCREEN + PRINTER	\$4344. ³³	\$8688. ⁶⁶
5.	1	System Optimization for Secondary Control Point NOT NEEDED	\$	\$
6.	1	System Optimization and Complete Training Package	\$No CHARGE	
7.	1	Client Server Software (Internet Monitoring & activation) NETWORK DRIVER	\$ 750. ⁰⁰	\$ 750. ⁰⁰
TOTAL				\$ 21,085. ²²

GRAND TOTAL OF ALL 4 SECTIONS

LOCAL DISCOUNT — \$504,185.17
6,600.00
TOTAL 497,585.17

Tornado Siren Replacement						
2008		Date	Brand		Latitude	Longitude
1	Fox Road, East of Stadium	Unknown	Allertor 125		35-47-55.1	90-40-6.9
2	University Loop @ Convo Yellow	Unknown	Allertor 125		35-50-43.3	90-40-18.9
3	E Nettleton @ Willow	Unknown	Allertor 125		35-49-2.6	90-38-55.7
4	Stadium @ Forrest Home - Uhaul	Unknown	Allertor 125		35-49-28.3	90-40-6.6
5	Culberhouse @ Cherry	3/7/1988	Allertor 125		35-49-58.1	90-42-50.1
6	Neely Rd @ Neely Lane	Unknown	Allertor 125	Broken	35-48-20.7	90-44-40.8
7	S Caraway @ Harrisburg RD	7/20/1993	2001AC Series B	Broken	35-46-39.3	90-40-44.9
8	FriendlyHope Rd @ FH Church	8/16/1994	2001AC Series B		35-47-38.1	90-46-14
9	Craighead Forrest Rd @ Sherwood Oaks	Unknown	2001AC Series B	Broken	35-47-4.7	90-43-25.9
10	Royal Dr @ Westvale Baptist Church	Unknown	2001AC Series B		35-51-12.5	90-45-40.2
11	Aggie RD @ AGR House	Unknown	2001AC		35-50-32	90-39-45
12	Winchester @ Willett	6/11/1997	2001AC		35-51-54.3	90-43-47.8
13	Wood ST @ Craighead Rd	6/12/2007	16V1T-B	Broken	35-48-50.7	90-43-19.8
14						
	3 extras as Backup					

Tornado Siren Replacement						
2009		Date	Brand		Latitude	Longitude
1	CW Post West of Commerce	Unknown	2001AC		35-48-23.4	90-37-41.3
2	Nestle Way N of CW Post	Unknown	2001AC		35-48-28.7	90-35-02.0
3	E Johnson @ Paragould DR	Unknown	2001AC		35-51-51.5	90-38-25.8
4	PeachTree @ Ponderosa	Unknown	2001AC		35-52-31.7	90-40-16
5	N Culberhouse @ Thomas Green	Unknown	2001AC		35-52-45	90-42-41.2
6	Renee @ Utmage	8/18/1999	2001AC		35-47-30	90-41-58.3
7	Hwy 49 S @ Darr Hill Road	8/25/1999	2001AC		35-46-43.2	90-44-44.8
8	Sage Meadows Blvd @ Culber house	Unknown	2001AC		35-53-4.5	90-38-22
9	E Nettleton @ County Club	6/12/2007	16V1T-B		35-49-43.1	90-41-11.8
10	Nettleton @ Strawfloor	6/12/2007	16V1T-B		35-49-40.9	90-44-39.6
11	Harrisburg @ Stroud	4/3/2007	2001-130		35-48-49.1	90-42-2.9
12	SpyGlass off Hazeltine	Unknown	2001AC		35-48-56.5	90-45-56.4
13	North Church @ Belt	10/3/2002	2001AC		35-50-59.8	90-42-12.6
14						
	3 extras as back up					

Tornado Siren Replacement

2010	New Sites/ New Sirens	Date	Brand	Latitude	Longitude
1	Craighead Forrest Park Access #5			35-46-14.6	90-42-8.74
2	Industrial Drive @ CR 607			35-47-30.9	90-38-33.6
3	HWY 463 @ Taylor's Chapel Lane			35-46-59.1	90-36-31.9
4	Ely Walker Lane @ HWY 63 S			34-46-12.3	90-35-20.4
5	CW Post Rd @ Quality Way			35-48-26.9	90-33-50.2
6	Easley Lane @ HWY 18 W			35-49-16.6	90-36-23.8
7	Kathleen @ Pacific			35-50-7.1	90-38-1.8
8	Misty Glen Dr. @ Peachtree AVE			35-52-29.9	90-37-20.2
9	Magnolia Lane @ Patrick Lane			35-52-19.4	90-41-39
10	Dan Ave @ Purnell Ln			35-51-26	90-47-1.2
11	Whispering Pines Lane @ Lawson Road E			35-44-55.6	90-41-02.8
	backup as needed to maintain 3				

ACORD CERTIFICATE OF LIABILITY INSURANCE

DP ID CL
PUBLI-1

DATE (MM/DD/YYYY)
06/09/08

PRODUCER
M. F. Block Insurance, Inc.
P.O. Box 640
216 West Emerson
Paragould AR 72451-0640
Phone: 870-236-8744 Fax: 870-239-9531

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

Public Safety Systems, Inc.
Nicki Arnold
100 Arnold Lane
Paragould AR 72450

INSURERS AFFORDING COVERAGE NAIC #
INSURER A: **USF Insurance Company**
INSURER B:
INSURER C:
INSURER D:
INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR	BINDER	06/09/08	06/09/09	EACH OCCURRENCE \$ 1,000,000
	DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000				
					MED EXP (Any one person) \$ 5,000
					PERSONAL & ADV INJURY \$ 1,000,000
					GENERAL AGGREGATE \$ 2,000,000
					PRODUCTS - COMP OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER				
	POLICY	PRO-JECT	LOC		
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident) \$
	ANY AUTO				
	ALL OWNED AUTOS				BODILY INJURY (Per person) \$
	SCHEDULED AUTOS				
	HIRED AUTOS				BODILY INJURY (Per accident) \$
	NON-OWNED AUTOS				
					PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT \$
	ANY AUTO				OTHER THAN EA ACC \$
					AUTO ONLY: AGG \$
	EXCESS/UMBRELLA LIABILITY				EACH OCCURRENCE \$
	OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/>				AGGREGATE \$
					\$
	DEDUCTIBLE				\$
	RETENTION \$				\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				WC STATUTORY LIMITS OTHER \$
	ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT \$
	If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE \$
	OTHER				E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

SIREN ALARM INSTALLATION

CERTIFICATE HOLDER

City of Jonesboro
W. Washington
Jonesboro AR 72401

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Samuel Lee Hays



Public Safety Systems, Inc.

100 Arnold Lane
Paragould, AR. 72450
870-236-0487
Cell 870-236-0486



##1

June 10, 2008

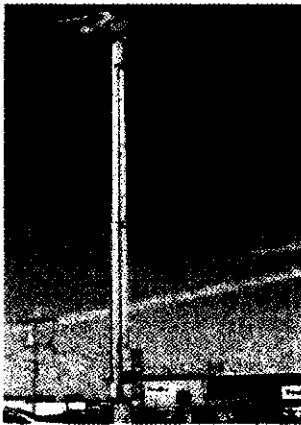
City Of Jonesboro
515 West Washington Av.
Jonesboro, AR. 72401

RE: Outdoor Storm Warning Sirens (BID # 2008:18)

Dear Sir,

I would like to thank you for the opportunity to bid on the outdoor warning sirens for the City Of Jonesboro. I have done a complete evaluation of each existing siren in the City Of Jonesboro. Most of the sirens were found to be installed with rigid galvanized conduit. Any sirens containing PVC conduit will have all conduit replaced with new rigid aluminum conduit. All of the existing sirens are in need of additional conduit straps which will be installed. Upgrading with the American Signal Controllers will also be replacing all of the 48 volt transformers and rectifiers currently being used by the Federal units. This item most likely is not in the plans to be replaced by Federal. The proposed system upgrade also includes the upgrading of the siren control radios. The City Of Jonesboro sirens currently operate on low band frequency allocation. The upgrade will be using a UHF frequency allocation which will provide better signal coverage for sirens on the outer end of the system, and for future growth of the system. The UHF system could have a repeater added to the system in the future if the City Of Jonesboro continued to grow beyond the reach of the current system. Our plan to upgrade with the American Signal Controllers will be placing all new electronic controls and hardware on every siren location, and not reusing or leaving any used electronic control equipment in place.

I have included 2 Bid Proposals for the City Of Jonesboro System. Bid #1 is based from the original bid specifications provided by the City Of Jonesboro. Bid #2 has a secondary means of providing a better system at less cost. The primary improvement to Bid #2 would be the addition of a secondary means of control to the sirens, which could be activated from any designated radios strategically placed anywhere in the City Of Jonesboro. Also included in Bid #2 it was found during our evaluation that the poles at the following locations would be adequate to use for the new siren installations at these locations. The poles appear to be modern and would be acceptable for the new installations, providing a substantial dollar savings.



2008-1



2008-5



2008-13



2009-9



2009-10

All new poles being installed will be a 60' Class 2 pole. Most competitors use a 50' pole and standard Electric Company pole specifications for their pole installations. That specification being 10% plus 2 feet.

Competitors:

50' pole = 7 feet in ground with 43' above ground

American Signal:

60' pole = 12 feet in ground with 48' above ground

The additional depth of the pole provides a much more stable platform for the siren, helping to prevent leaning of the siren over time or leaning due to a high wind encounter. Leaning of a siren out of level will have negative effects on the sound output and distribution

of the siren, causing some areas within the rotational area of the siren to have less volume, and less coverage. The attached maps shows estimated sound coverage for the City Of Jonesboro.

Map #1 shows the coverage from the proposed system upgrade using the existing Federal 2001 sirens with the 9 replaced sirens and 12 additional sirens being American Signal T-128.

Map #2 shows the coverage if the entire system was built with only Federal 2001 sirens.

The added coverage provided by the American Signal T-128 siren is achieved with the 7 ½ horsepower motor as compared to the Federal 6 horsepower motor. Also contributing to the coverage difference is the American Signal T-128 siren operating at a lower frequency of 500 hz., as compared to Federal at 750 hz. The lower frequency provides better penetration and range of sound.

I would also like to bring to your attention that we are located only 20 minutes from the City Of Jonesboro, and are available for service or assistance 24 hours a day. Please find attached a list of references to go along with 2 local references.

City Of Paragould
Mayor, Mike Gaskill
870-239-7510

City Of Pocahontas
Fire Chief, Scott Baltz
870-892-8553

Thank You,

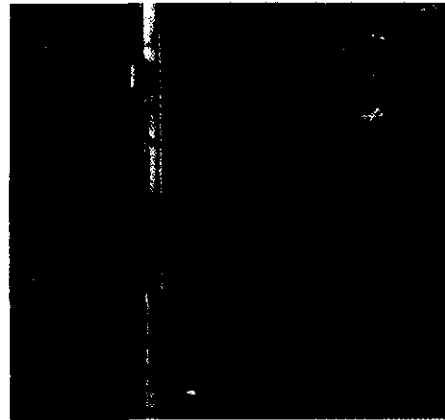


Nicki Arnold

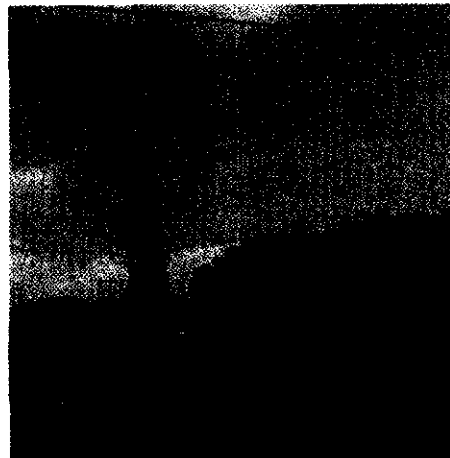
The following siren locations are in need of additional work, which will be performed at time of upgrade.

Location:

2008-13 Wood St. @ Craighead Rd.
(Replace all PVC conduit with rigid)

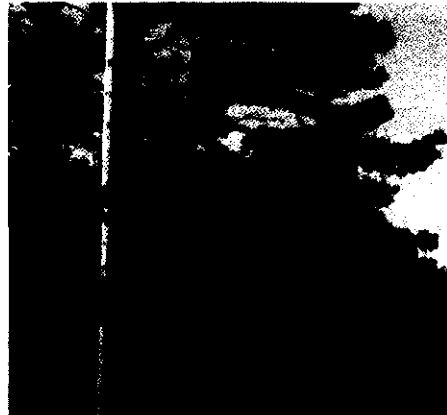


2009-9 E. Nettleton @ Country Club
(Replace all PVC conduit with rigid)



2009-10

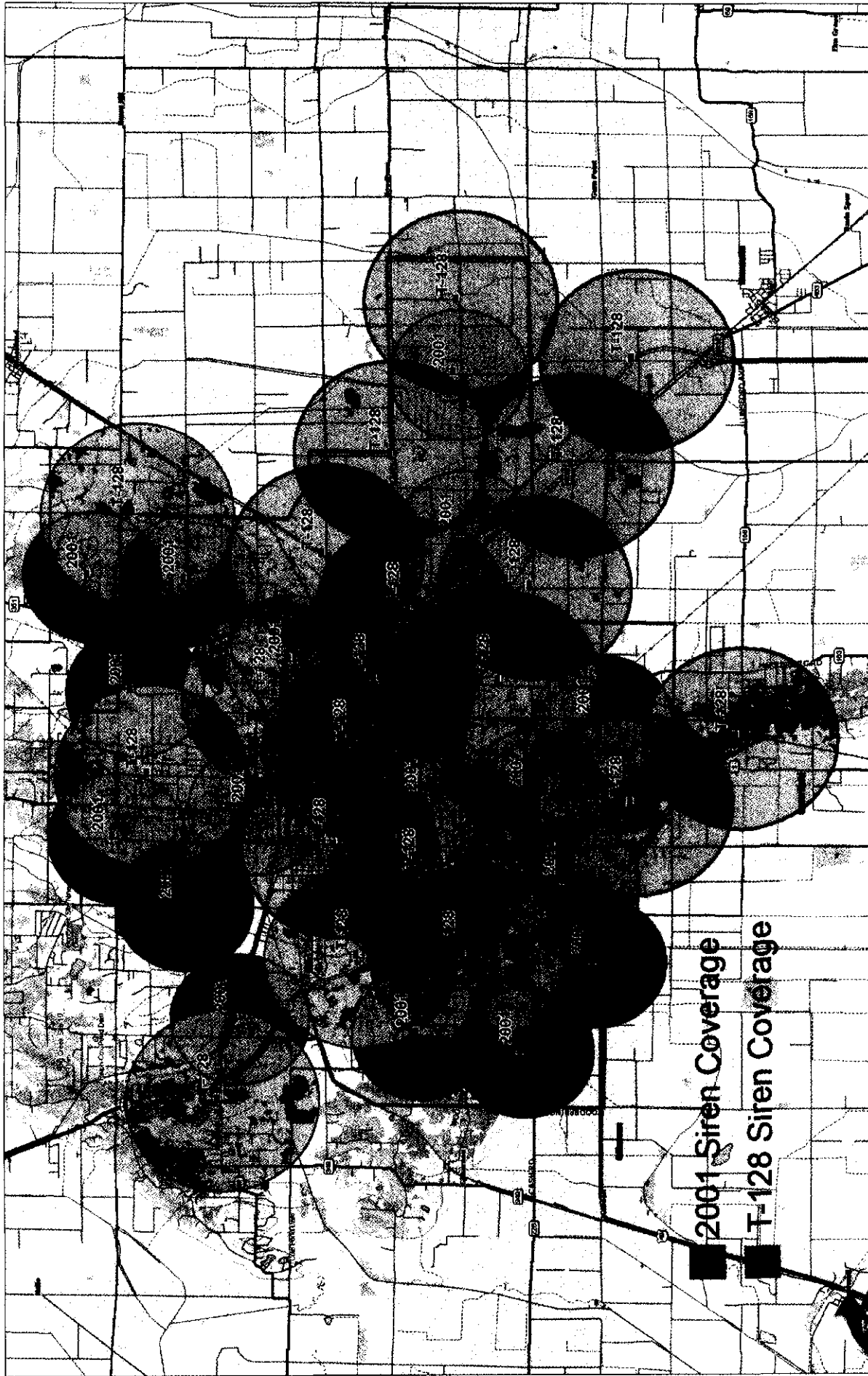
Nettleton @ Strawfloor
(Replace all PVC conduit with rigid)



2009-13

North Church @ Belt
(New power feed mast & Breaker box)





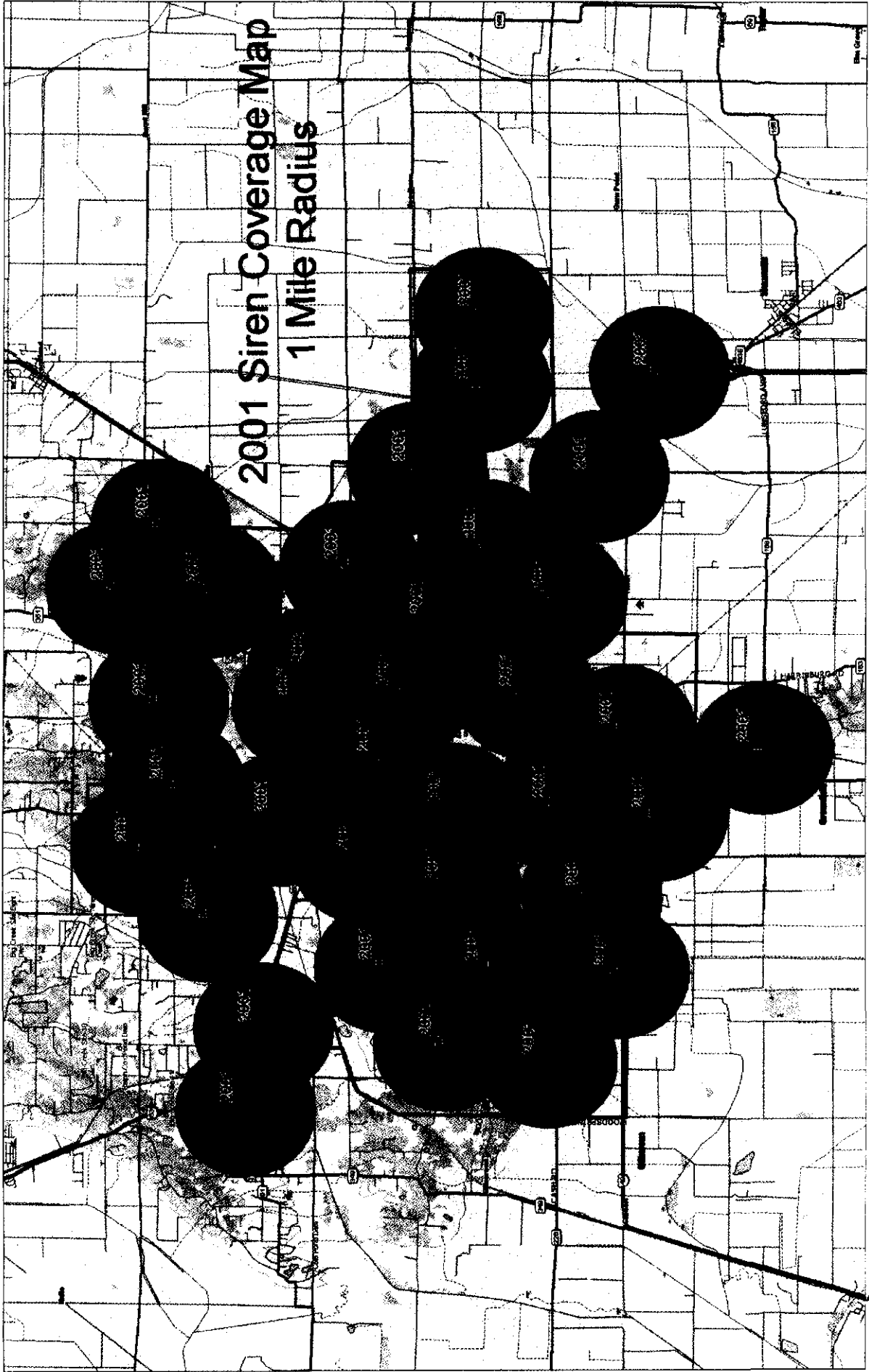
MN (0.0° E)

■ 2001 Siren Coverage
 ■ T-128 Siren Coverage

AMERICAN
 SIGNAL CORPORATION



2001 Siren Coverage Map 1 Mile Radius



↑
MN (0.0° E)



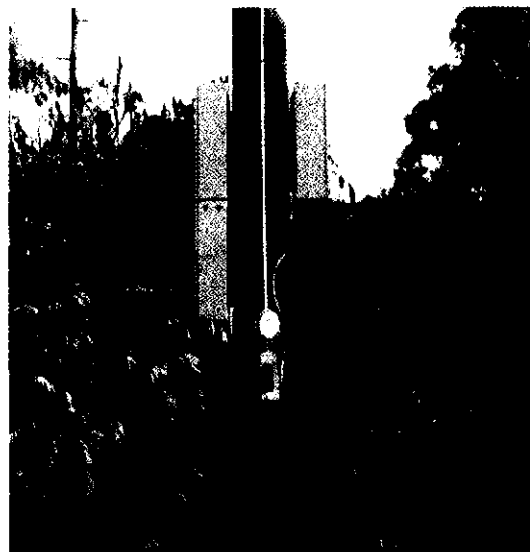


Public Safety Systems, Inc.

100 Arnold Lane
Paragould, AR. 72450
870-236-0487
Cell 870-236-0486



New Installation of American Signal T-128





Public Safety Systems, Inc.

100 Arnold Lane
Paragould, AR. 72450
870-236-0487
Cell 870-236-0486



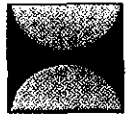
Description of Maintenance for Outdoor Warning Sirens

Visual Inspection of the following:

- Equipment Cabinets
- Electrical conduits and connectors
- Ground connections
- Pole condition
- Battery cable connections

Technical Testing:

- Check all 9 control fuses
- Check incoming voltage from power company
- Load Test each battery and log
- Check battery charger for each battery
- Check contactors for corrosion or burnt signs
- Check rotate control voltage output
- Check motor head voltage and current during operation
- Check all cabinet tamper switches
- Check radio output power and radio antenna



AMERICAN SIGNAL CORPORATION

4801 W. Woolworth Avenue, Milwaukee, WI 53218
(800) 243-2911 (414) 358-8000 FAX (414) 358-8008

Municipal References

The following are Municipal Clients that have purchased American Signal Corporation and/or ACA (Alerting Communicators of America now known as American Signal Corporation) sirens and CompuLert™ SCADA systems for their communities.

<p>City of Waco 317 Concord Waco, TX 76707</p> <p>Frank Patterson Phone 254-750-5911 frankp@ci.waco.tx.us</p> <p>Compulert™ Two Way T-128 AC/DC Sirens</p>	<p>Douglas County Emerg. Mgmt. Agency Civic Center EOC 114 Omaha, NE 68183</p> <p>Mr. James Rogers (402) 444-5040</p> <p>Compulert™ Two Way 79 Tempest 128 110 RTU's</p>
<p>City of Richardson Texas 136 N. Greenville Avenue Richardson, TX 75081-6006</p> <p>George Grant (972) 744-5756</p> <p>CompuLert™ Two-way (20) TEMPEST™ T-128-AC/DC Sirens</p>	<p>Winnebago County 4311 Jackson Street Oshkosh, WI 54901</p> <p>Don Wilmot (920) 236-7463</p> <p>(50 plus) CompuLert™ Two-way Mixed ASC and Federal Sirens</p>

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AMERICAN SIGNAL CORPORATION

4801 W. Woolworth Avenue, Milwaukee, WI 53218
(800) 243-2911 (414) 358-8000 FAX (414) 358-8008

References

The following are Clients that have purchased American Signal Corporation and/or ACA (Alerting Communicators of America now known as American Signal Corporation) sirens and CompuLert™ SCADA systems for their communities.

College of William & Mary
115 Grigsby Drive
Williamsburg, VA 23185

Florida State University
106 Mendenhall Bldg A
Tallahassee, FL 32306

Murray State University
615 Gilbert Graves Drive
Murray, KY 42071

Norwich University Facilities
Hayden Bldg.
Northfield, VT 05663

University of Maine
R.B. Allen Company, Inc.
131 Lafayette Road
North Hampton, NH 03862
Robert Allen
207-939-2134

Central Community College
E Highway 6
Hastings, NE 68902
Alicia Haussler, Purchasing Agent
402-463-9811

Central State University
1400 Brush Row Road
Wilberforce, OH 45384
800-388-2781
Purchasing Agent



4801 W. Woolworth Avenue, Milwaukee, WI 53218
(800) 243-2911 (414) 358-8000 FAX (414) 358-8008

Florida State University
University Ctr C RM 4412
390 Champions Way
Tallahassee, FL 32306
Tom Jacobson
BJ Lewis, Purchasing Agent
850-644-7639

Miami Dade College
11011 S.W. 104th Street
Miami, FL 33176
Lesia Moyer, Buyer
305-237-2402

Cedar Valley College
3030 N. Dallas Avenue
Lancaster, TX 75134
972-860-8228
Purchasing Agent

Hauppauge Schools
Whiporwil School, Hoffman Lane
Hauppauge, NY 11788
Ed Spear
631-761-8214

Angelo State University
2601 West Avenue North
San Angelo, TX 76909
Purchasing Agent
325-942-2168

University of Tennessee
101 University Street
Martin, TN 38238
Mike Davis
901-587-7640

University of Oklahoma
2921 S. Monitor
Norman, OK 73019
Gordon Carter



AMERICAN
SIGNAL CORPORATION

4801 W. Woolworth Avenue, Milwaukee, WI 53218
(800) 243-2911 (414) 358-8000 FAX (414) 358-8008

Ferris State University
420 Oak Street
Big Rapid, MI 49307
Roger Bula
231-591-2920

Waukesha Technical College
800 Main Street, Industrial 112
Pewaukee, WI 53072

Murray State University
Central Receiving Dept., Chestnut St.
Murray, KY 42071

Saginaw Valley State University
7400 Bay Road
University Center, MI 48710
C. Schweitzer
517-790-4101

WCTC Technical College
800 Main Street, Industrial 112
Pewaukee, WI 53072
Jeff Leverenz
414-691-5381



LIMITED WARRANTY

AMERICAN SIGNAL CORPORATION warrants electromechanical siren head equipment, including the housing, motor, frame, and any gear or drive assemblies, to be free from defects in materials and workmanship for a period of five (5) years for parts from the date of shipment, provided such equipment is installed, operated, and maintained in accordance with the instructions, manuals and/or recommendations supplied by American Signal Corporation. AMERICAN SIGNAL CORPORATION warrants all other mechanical, electrical/electronic control equipment (except batteries) to be free from defects in materials and workmanship for a period of two (2) years for parts, two (2) year for in-house labor, from the date of shipment, provided such equipment is installed, operated, and maintained in accordance with the instructions, manuals, and/or recommendations supplied by American Signal Corporation. If within such period any such equipment shall be proved to American Signal Corporation's satisfaction to be defective, such equipment shall be repaired or replaced at American Signal Corporation's option. Notwithstanding the foregoing, American Signal Corporation makes no warranties on equipment manufactured by others and supplied by American Signal Corporation, but will extend to the purchaser any warranties associated with such equipment.

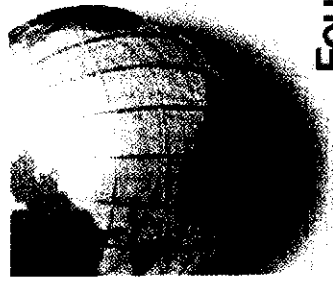
EXCLUSIVE WARRANTY/REMEDY

The foregoing is American Signal Corporation's sole obligation and the buyer's exclusive remedy hereunder and shall be conditioned upon American Signal Corporation's receiving written notice of any alleged defect within 30 days after its discovery and, at American Signal Corporation's option, return of such equipment to American Signal Corporation, f.o.b. its factory in Milwaukee, Wisconsin. **THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED; AND AMERICAN SIGNAL CORPORATION EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.**

This warranty does not apply to any equipment which in American Signal Corporation's judgment has been subject to misuse, neglect or accident or damage due to local utility power surges, abuse, alteration, improper installation or application, or negligence in use, storage, transportation or handling, or repair by anyone other than American Signal Corporation and it's authorized service centers. This warranty does not cover any costs related to transportation for return of equipment or reshipment of any repaired or replaced equipment, or costs associated with installation, removal, or reinstallation of equipment.

LIMITATION OF LIABILITY

Except as otherwise agreed in writing, American Signal Corporation's liability with respect to the equipment and/or services sold hereunder shall be limited to the warranty provided above, and, with respect to other performance of the sales/service contract, shall be limited to the contract price. **AMERICAN SIGNAL CORPORATION SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO EQUIPMENT SOLD OR SERVICES RENDERED BY AMERICAN SIGNAL CORPORATION, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO.** Without limiting the generality of the foregoing, American Signal Corporation specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, loss of use of equipment or any associated equipment, cost of capital, cost of substitute equipment, facilities or services, down-time, shut-down or slow-down costs, or for any other types of economic loss, or for claims of buyer's customers or any third party for any such damages. **AMERICAN SIGNAL CORPORATION SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.**



AMERICAN SIGNAL CORPORATION (ASC)

Founded in 1873.

World Wide Supplier of Emergency Alert & Notification Systems Since 1942.



AMERICAN SIGNAL CORPORATION

FEMA

DIGITAL WIRELESS

NURSE

198

ALERTING DISASTER WARNING SYSTEMS

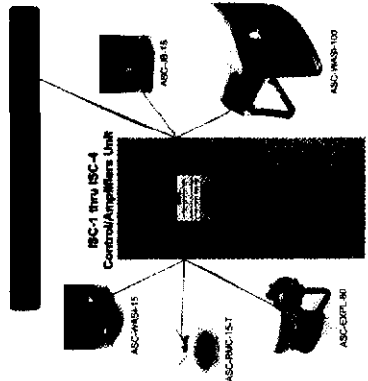
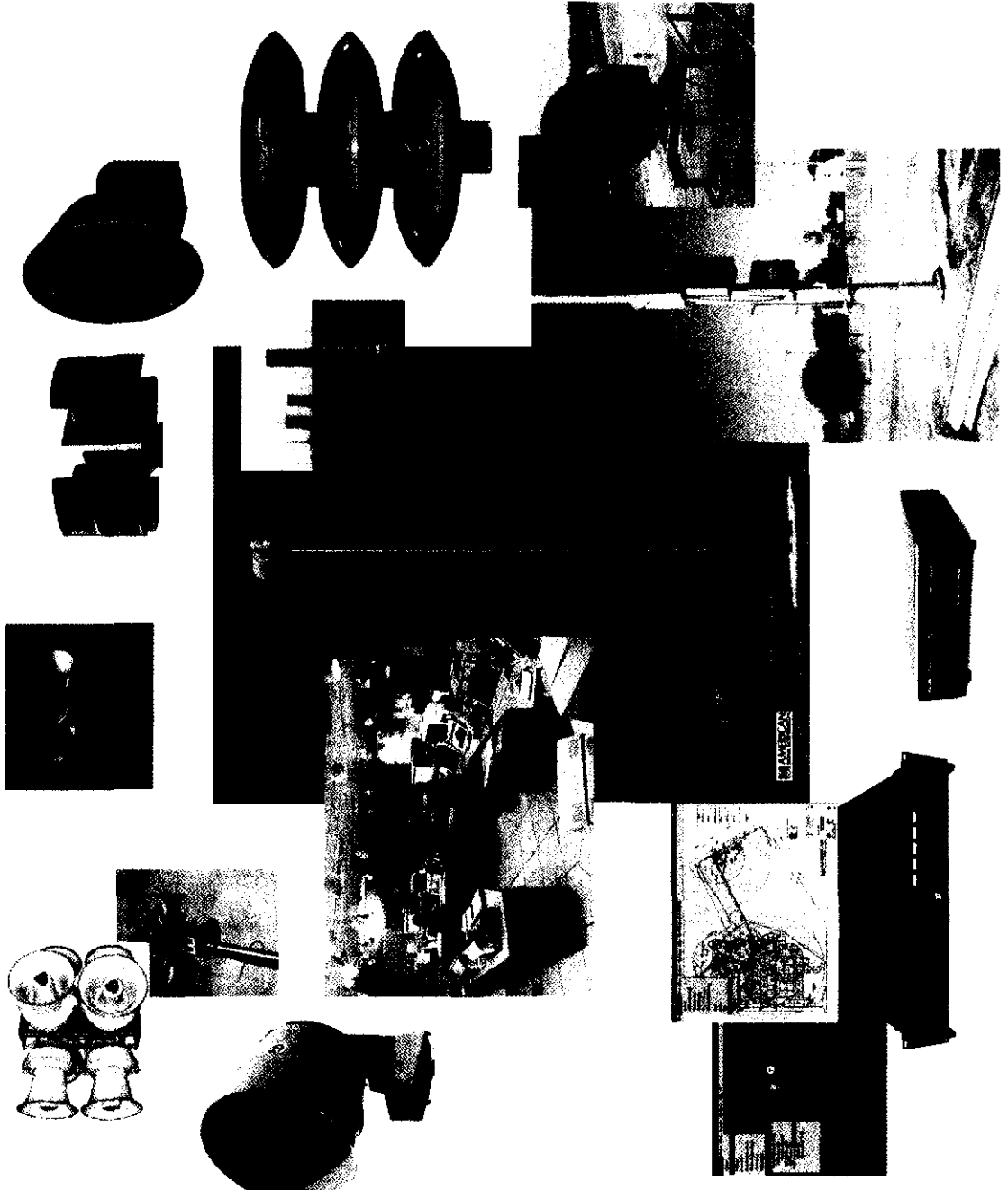
World Class Manufacturer for Over 60 Years.

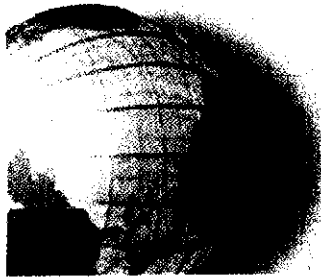
www.americansignal.com



ASC: The Widest Selection of Mechanical & Electronic Warning Systems

- **i-FORCE**
- **TEMPEST™**
- **CompuLert™**
- **CYLONE™**
- **Alertronic™**
- **E-CLASS**
- **UPLink Systems™**
- **TAR-900™**
- **EAS-900™**
- **ISC-Industrial Safety Communication**





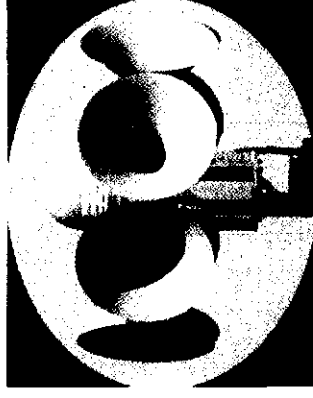
Tempest™ Series Electromechanical AC & DC Sirens

Different Configurations for Different Needs

- Naming convention by dB rating
- 5 year siren head warranty
- Stainless steel hardware
- UL listed
- Factory sealed motor bearings eliminates greasing and maintenance
- All systems can be configured for AC operation, DC operation or True UPS backup
- Operates at optimal **500 Hz** frequency
 - Provides up to 19 square mile effective coverage area
 - Audible over 2 mile radius



Tempest T-112

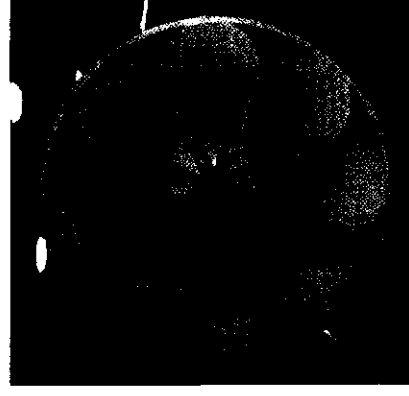


Tempest T-121

Tempest T-128



Tempest T-135





ASC Mechanical AC/DC Siren Features

- **Reliability**- 99.8% P1's on all nuclear plants utilizing TEMPEST™ Sirens.
- **Environmental**- **Cast Aluminum** and **fiberglass** components resists the most harsh environments.
- **Acoustic Advantages**- 18 to 34% coverage advantage over nearest competitor based upon 500Hz frequency as outlined in OPAS-G.
- **TEMPEST™ T-121 Approved by FEMA/NRC for One for One Replacement of Existing Penetrator P-10/15 Sirens on Salem/Hope Creek Generating Station.**
- **AC & DC Operation (True UPS Design)**
- **Integrated Control and Status Monitoring through CompuLert™**

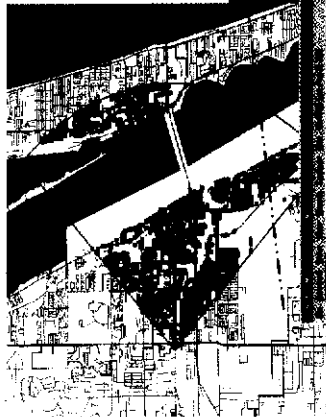
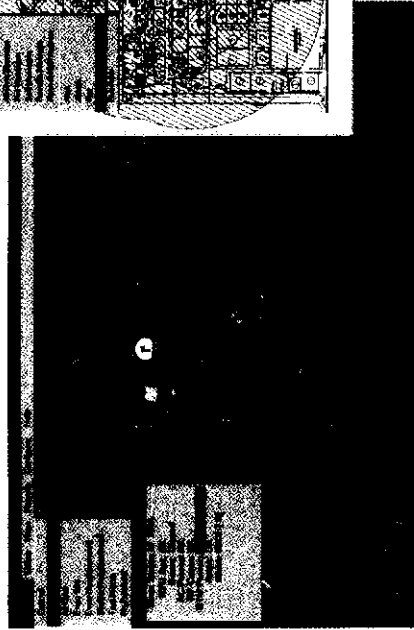
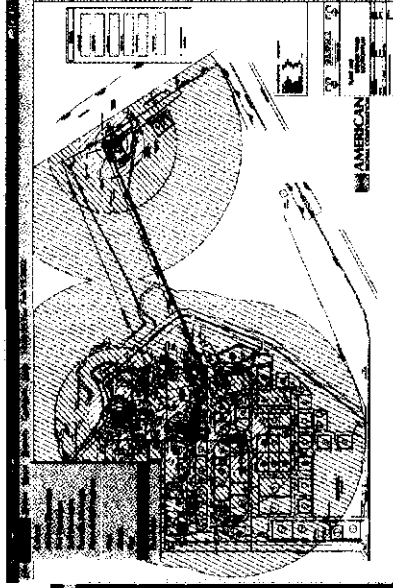




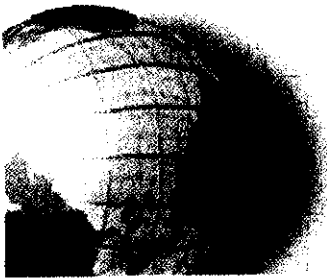
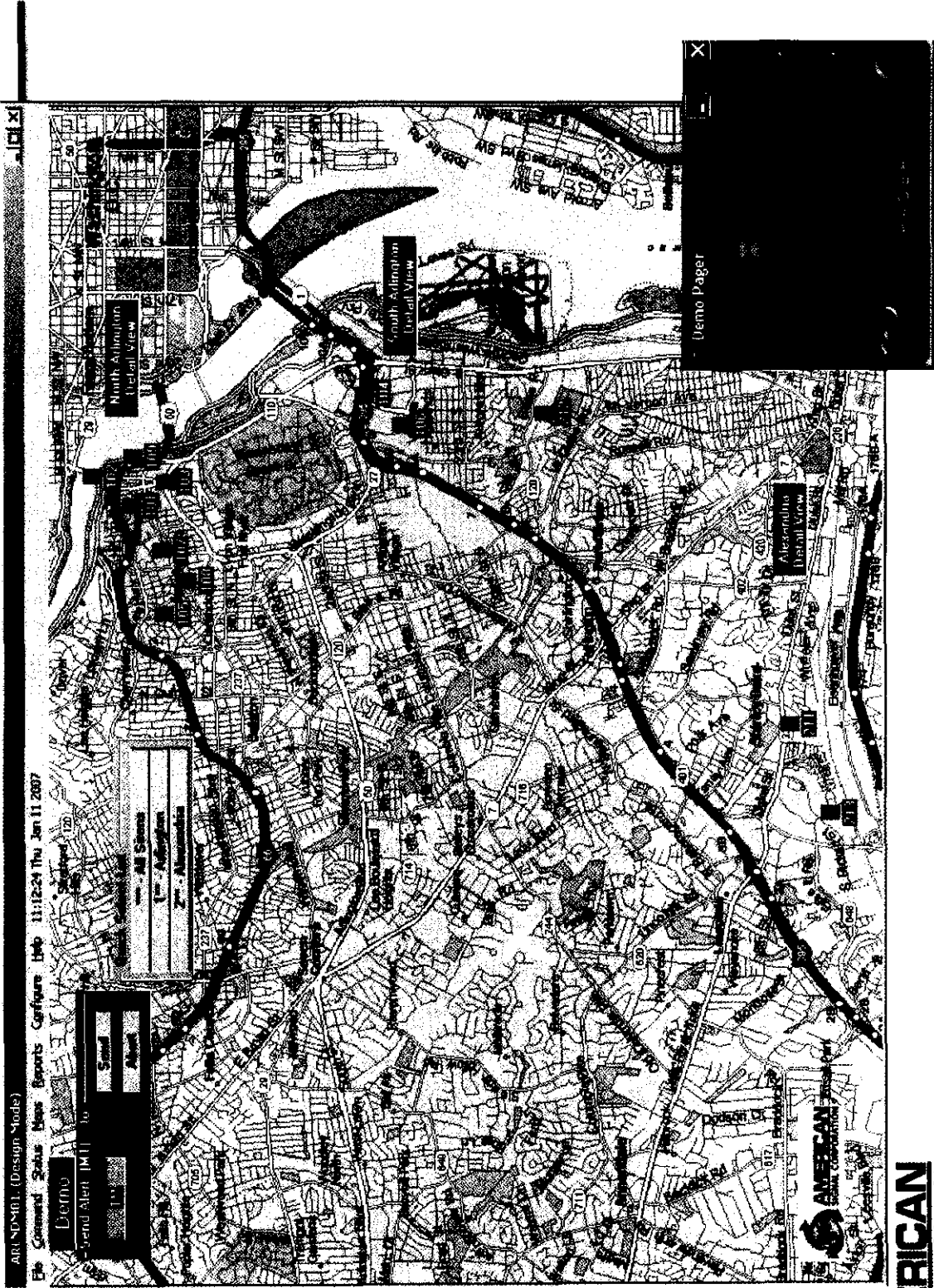
CompuNet^(TM)
System

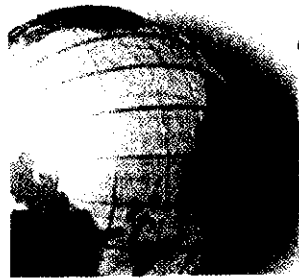
Wired & Wireless Control Systems

**Control, Warn, Instruct,
and Verify Operation
of the Communications**



Example Compulert Monitor Status





ASC System Installations - Nuclear



Exelon - 5 year replacement of (9) Nuclear Power Plants throughout Illinois, Alert & Notification Systems: 390 Sirens
First installation of Tempest™ T-135 sirens.



PSEG Salem/Hope Creek (71) Tempest T-121, (3) AL 4000 (5) CompuLert™ SCADA Control Systems VHF Infrastructure.
ANS Services, LLC providing Yearly Preventative Maintenance/Emergency Service contract



South Texas Project Nuclear Station- Full System replacement with ASC CompuLert™ SCADA Control Systems VHF Infrastructure, Annual Preventative Maintenance Contract Services.



Calvert Cliffs Nuclear Power Plant Inc. Lusby MD- (73) TEMPEST™ T-128 & T-121 w/CompuLert™ 800MHz Trunking Infrastructure.
GINNA Nuclear Station Rochester, NY- (96) CompuLert™ SCADA Control Systems VHF Infrastructure.



Vermont Yankee- Installing Nuclear Alert & Notification System Replacement Contract.

ENERGY NUCLEAR

Grand Gulf Nuclear Station - 2003 Full System replacement with ASC CompuLert™ SCADA Control Systems VHF Infrastructure.



Indian Point Nuclear – Currently Performing Yearly Preventative Maintenance Contract on Existing ASC Sirens.



ASC Global Installations

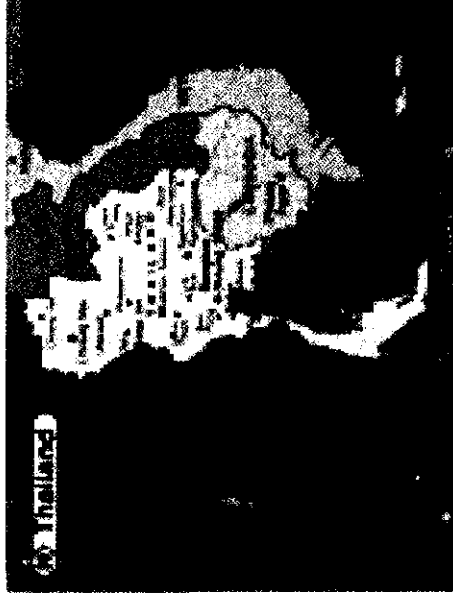
Tsunami System for Royal Thailand Government

Electronic siren system with central control systems, satellite and P/L activations.

Phase 1 – installed 2005: (71) E-Class (7) CompuLert™ Control Stations

Phase 2 – installed 2006: (48) E-Class sirens

Phase 3 – 2008 project: Additional 144 electronic sirens, plus hotel systems and distributed EVAC units



St. Maarten (Caribbean)

Tobago (Caribbean)

Nigeria Oil Refineries (Port Hardcourt & Okpai)

United Nations Lebanon

Country of Sri Lanka

Saint Talent of Singapore



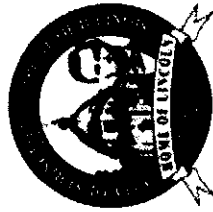
ASC System Installations - Municipal



Douglas County Emergency Management Agency

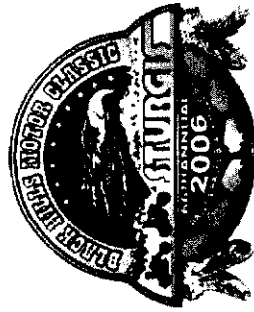
Douglas County City of Omaha, Nebraska-

Complete System Replacement (100) TEMPEST™ T-128 w/
(140) CompuLert™ VHF Infrastructure.



Springfield, Illinois

Complete System Replacement (53) TEMPEST™ T-128, (4) E-Class,
w/ (2) CompuLert™ VHF Infrastructure.



Meade County-Sturgis, South Dakota

Complete System Replacement (13) TEMPEST™ T-128 w/
(3) CompuLert™ VHF Infrastructure.



AMERICAN
SIGNAL CORPORATION



ASC System Installations - Military



IRAQ- GSA Contract (17) FOB for the
Dept. of the Army 1st ID & 42nd ID
(FOB) Forward Operating Bases.



- Redstone Arsenal, AL
- Nellis Air Force Base
- Ft. Riley 1st Infantry
- Aberdeen Proving Grounds
- Red River Army Depot



Historical

Sheppard AFB
Ellsworth
Elmendorf AFB
Nellis AFB

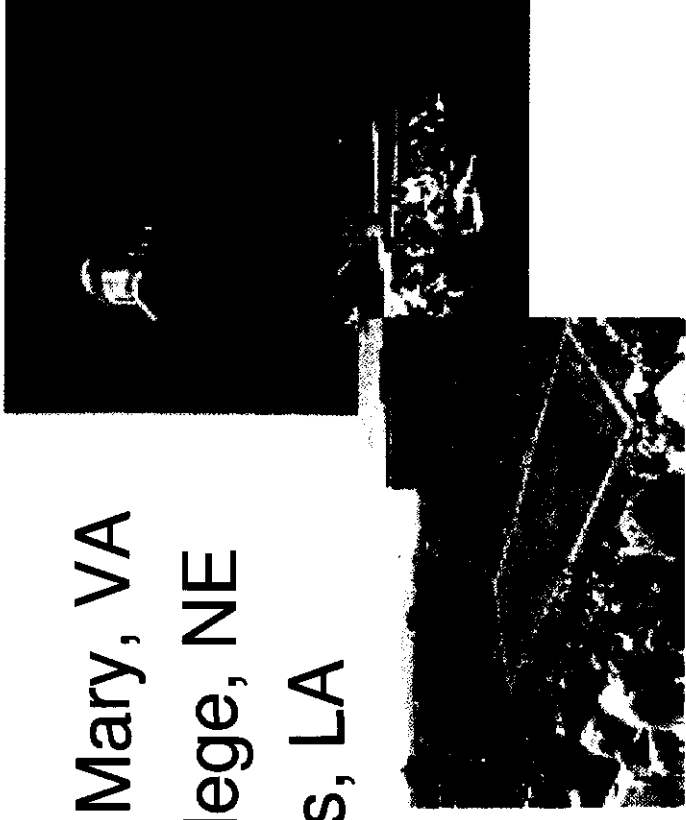
Plattsburg AFB
Camp Lejeune MC
Keesler AFB





Campus Alerting

- Florida State University, FL
- University North Carolina Wilmington
- University of Connecticut, CN
- University of Temple, PA
- The College of William & Mary, VA
- Hastings Community College, NE
- University of New Orleans, LA
- Norwich University, ME





Why Should ASC Be Your Choice?

TEMPEST™ Sirens are "Best in Industry" for P&I reliability.



• Leading the industry in Speech Intelligibility Notification.



• Most Experienced in Wired and Wireless Communications and Control.



• ASC is positioned for Rapid Response to the World Effort to provide the public with reliable and cost effective Alert and Notification Systems.



• ASC is committed to be Your Alert & Notification System Partner.



Public Safety Systems, Inc.

100 Arnold Lane
Paragould, AR. 72450
870-236-0487
Cell 870-236-0486



Name / Address

City Of Jonesboro
410 W. Washington
Jonesboro, AR. 72401

#2

Date

6/5/2008

Estimate # 2

1007

BID PROPOSAL

Qty	Description	Rate	Total
17	American Signal - AC/DC Motor Control 128 UL Listed w/ 48 volt transformer / NEMA enclosure / 2way UHF radio control, current sensor, 2 tone secondary control, Omni Directional Antenna	5,965.71	101,417.07T
17	Removal of Existing Control Unit	250.00	4,250.00T
17	Installation of Siren Controllers on existing sites.	1,800.00	30,600.00T
9	American Signal Tempest T-128 Rotating Siren 48v. DC UL Listed w/ pole mount	5,774.51	51,970.59T
9	American Signal - AC/DC Motor Control 128 UL Listed w/ 48 volt transformer / NEMA enclosure / 2way UHF radio control, current sensor, 2 tone secondary control, Omni Directional Antenna	5,965.71	53,691.39T
4	Removal of 4 locations, including removal of poles, and existing equipment	750.00	3,000.00T
5	Removal of 5 locations of siren and equipment. Leave existing pole for new installation	450.00	2,250.00T
4	Installation of Tempest 128 Siren Head, AC/DC Motor Control, including 60' Class II Wood Pole	4,850.00	19,400.00T
5	Installation of Tempest 128 Siren Head, AC/DC Motor Control, using existing pole	3,450.00	17,250.00T
12	American Signal Tempest T-128 Rotating Siren 48v. DC UL Listed w/ pole mount	5,774.51	69,294.12T
12	American Signal - AC/DC Motor Control 128 UL Listed w/ 48 volt transformer / NEMA enclosure / 2way UHF radio control, current sensor, 2 tone secondary control, Omni Directional Antenna	5,965.71	71,588.52T
12	Installation of Tempest 128 Siren Head, AC/DC Motor Control, including 60' Class II Wood Pole	4,850.00	58,200.00T
1	American Signal CSC-960FSK Central Station Controller	3,423.28	3,423.28T
1	Compuert Management Software Pre Loaded to Dell Windows based PC w/ 17" Flat Panel Monitor, and Ink Jet Printer	4,344.33	4,344.33T
1	Network Driver, Internet Monitoring and Control	750.00	750.00T
1	Secondary Activation UHF Radio, Antenna & Coax, Battery Backup Power Supply/ Installed	2,775.00	2,775.00T
1	Local Discount	-6,600.00	-6,600.00T

Subtotal \$487,604.30

Sales Tax (0.0%) \$0.00

Total \$487,604.30

T-128

We challenge you to compare our sirens & control systems with any manufacturer's!

ASC's many years of experience in the warning system industry since 1942 has culminated with the advent of the Tempest™ line of the most reliable and coverage effective sirens on the market to date.

Available in low-cost AC operation, DC battery pack operation, and True UPS design with AC power as the main supply source and DC battery backup in the event of a power failure.

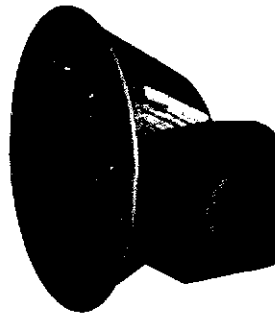
The Tempest™ T-128 is designed to be maintenance free. Many composite components are used to reduce or eliminate the damaging effects of harsh environmental conditions. All ASC high powered siren systems are constructed using stainless steel hardware.

ASC can also provide all control components such as the siren control, radio decoder (optional), and service disconnect to one mounting channel which is pre-wired at the factory. The mounting configuration reduces field installation mistakes as well as installation time and cost.

Siren Design Characteristics

The T-128 siren utilizes aluminum sound-producing components which are covered in color-impregnated fiberglass to eliminate rusting and painting maintenance.

Sirens are mounted directly over the center mounting poles so that guy wires are not required.



Customize our systems to your specifications

Tempest™ sirens can be connected to your personal computer and monitored from anywhere with the addition of one of our CompuLert™ graphic user interface options. Our expert team can custom create an Early Warning or Mass Notification System to suit your specific needs and maximize life saving potential.



Learn more at:

www.AmericanSignal.com

- Rotational directional design, 360° coverage

- No maintenance on siren head EVER!

- System can be configured for AC operation, DC operation, or True UPS backup

- Direct Drive Rotation Design eliminates chains and belts that will fail and require maintenance

- Factory sealed motor bearings eliminates maintenance

- Stainless Steel Hardware with a 5 year parts warranty

- UL Listed

- Screened air intake and output

Please E-mail us at ContactUs@americansignal.com to learn more!

**AMERICAN
SIGNAL CORPORATION**

T-128

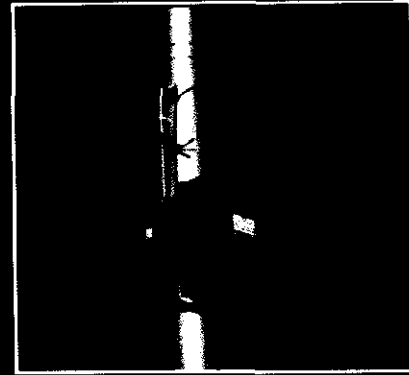
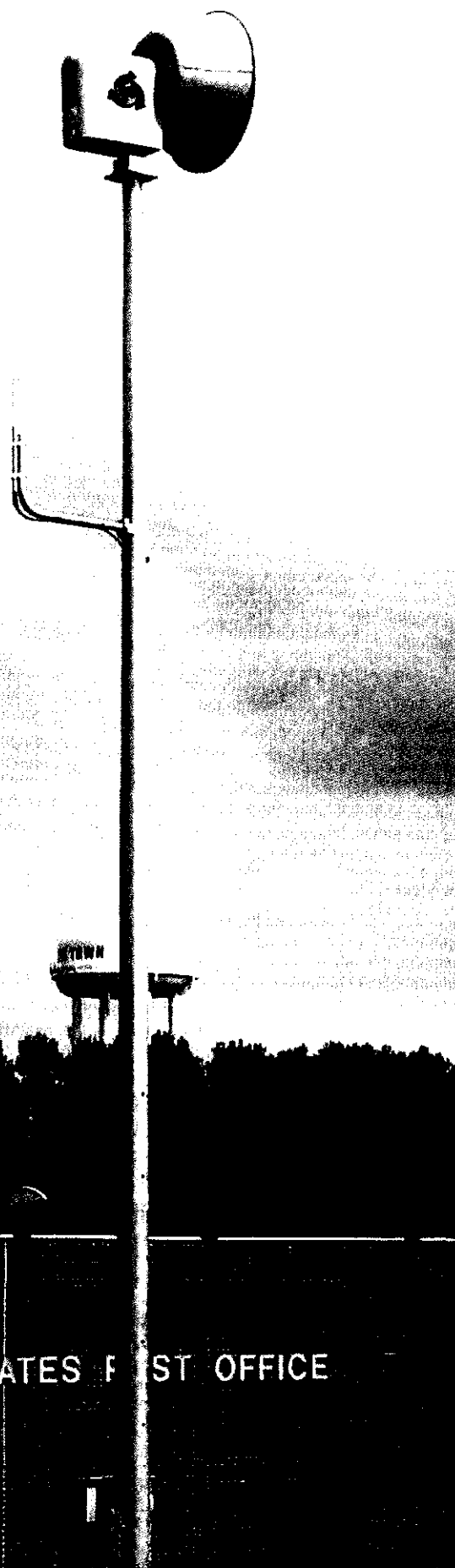
T-128 at 70dB*

Competitor F Rotational Siren
 ASC's T-128



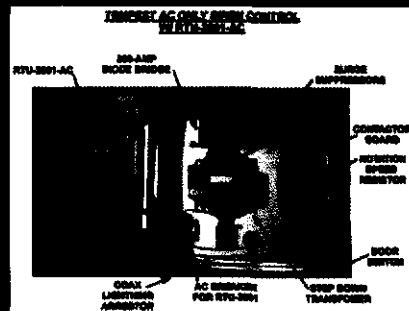
SYSTEM SPECIFICATIONS

Tempest™ T-128	129 dB avg. @100 ft. 130.9 dB peak @100 ft.
Output Frequency	500 Hz
AC Power Voltage	240/120 Vac 40/20 Amp 50/60 Hz
Operational Voltage	48 v DC
AC Control	40 Amp Service AC
Battery Charge Current	4 Amps (max)
Duty Cycle	30 min.
Battery Standby Duration	21 Days
Operation Temperature	-40°C to 60°C
Storage Temperature	-65°C to 125°C
Humidity	0%-100% (non-condensing)
Wind Speed	150 Mph
LxHxW	59 1/2"x65"x57"
Siren Weight	275 lbs.
DC Control Cabinet	210 lbs.
AC Control Cabinet	180 lbs.



INSTALLATION

For maximum sound dispersion, horns should be mounted 15' to 20' above grade. An optional pole mount is available for mounting the poles on a standard wooden utility pole. This center mount, low silhouette siren design eliminates the need for support wires. The siren can also be mounted on proper structures, such as roofs, towers, etc. Mounting brackets for these applications and additional installation accessories are available from American Signal.



ALERT

ATTACK

FIRE

UNITED STATES POST OFFICE

CompuLert™



CompuLert™ is the recognized industry leader in data telemetry computing of two-way "Outdoor Warning Siren" activation and monitoring equipment. With nearly 25 years of experience, it excels in meeting community, industrial, and nuclear safety application needs. CompuLert™ continues to be the choice of customers who are serious about public safety.

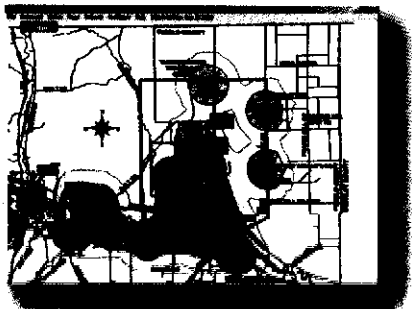
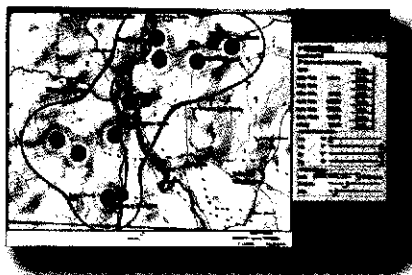
Each CompuLert™ Telemetry System Consists of:

1. CompuLert™ Windows compatible software
2. Digital Universal Siren Controllers
3. CSC-960™ Encoder
4. Optional RTU Interface controllers for interfacing to interior voice warning systems thereby providing coordinated information "inside and outside"

We enjoy excellent, long-term relationships with our customers. The feedback we have received over the years has served as the building blocks of CompuLert's™ powerful and leading-edge features and options. For example, from a "dropdown" programmable menu, you can easily energize any combination of over 3,000 individually addressable digital universal controllers for sirens, interfaces to interior systems, tone-alert radios, and weather stations. When specific area notification is required, choose from 1 to 99 programmable groups, or an individual siren.

User programmable pre-scheduled testing and polling are easily accomplished from the programming menu. Just select the date, time(s) of day, and number of times per month you wish to run tests. Select from up to nine interactive maps, ranging from county-wide to individual community map views - perfect for county systems where dispatchers activate sirens for their community.

Multiple tone signals, live P.A., and pre-recorded messages are easily activated from CompuLert's™ control equipment, enhancing the performance of any electromechanical or electronic siren system.

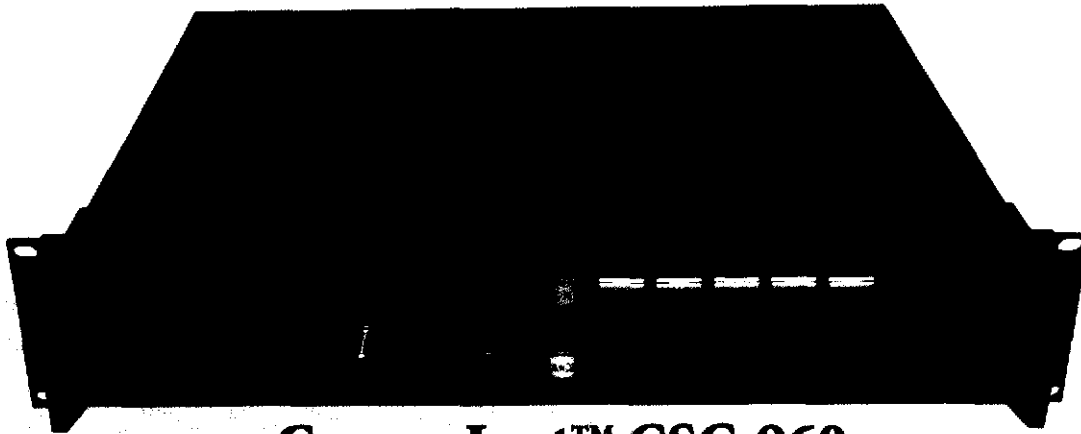


- More than 25 years of field use, reliability and experience.
- Dispatcher friendly, easy to use, drop down menus with point and click operation throughout.
- Customized interactive (quality color presentation) maps with color coded siren icons, provide visual display of siren status and emergency signal activation.
- Proven reliability with user defined system testing, polling, and status reporting.
- Trouble detection alarms notify operator(s) of impending danger due to equipment degradation or failure.
- "Minimum Transmit Time" testing quickly frees up shared radio frequencies for other emergency communication use.
- Robust digital FSK encode/decode protocol for premium level of security and assured operation - even in the most difficult of environments.
- Can interface with DTMF or TTS for compatibility with other existing equipment.
- Compatible with any siren equipment.
- Control redundancy provided with battery back up from the CSC-960 encoder Access from any authorized PC using remote access communication software.
- Windows 2000/XP compatible.

**AMERICAN
SIGNAL CORPORATION**

CSC-960™

Command and Control System



CompuLert™ CSC-960

The CSC-960™ encoder combines maximum flexibility with convenience of operation for new or existing "Outdoor Warning Siren Systems" as well as interfacing to interior Mass Notification Systems used for emergency warning. Use it as a stand-alone unit, or in multiple-controller arrangements of a 1-way or 2-way control system. Compatible with both DTMF or digital FSK data-tone protocols, it may be used to upgrade your existing equipment, or as a controller for your new warning system. For enhanced operation, connect the CSC-960™ to a new or existing PC using a Windows operating system.

Designed with mounting in mind, the CSC-960™ is easily installed on a desktop, in a 19" rack-mount configuration, or integrated into an existing dispatch console to conserve space.

The CompuLert™ CSC-960™ configuration is determined by the feature set you need as well as the number of RTUs required for sirens and building system interface. For 2-way systems with up to 15 sirens, the CSC-960™ and printer will provide critical status information relating to the operational status of the warning siren equipment. Beyond 15 sirens, the PC Windows adjunct is generally more suitable. For large systems, or where communities require the benefit of enhanced control system(s) features, an operator work station can be provided to include the powerful CompuLert™ software for "automatic event" report generation, and other convenient features. Now the CSC-960™ will also upload and download (all) command sequences from the PC or operate independently of the PC, when simple, fast, push button activation only is required.

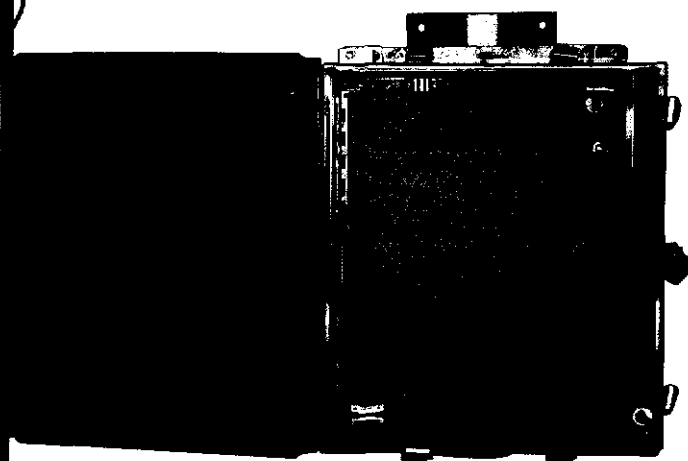
Installation and operation is easy! Just plug it in to any 110 VAC, 60 Hz service outlet, connect it to your radio transmitter, turn on the power, and push the tone-signal/siren(s) button(s) to activate the equipment. The CSC-960™ comes standard with battery back-up and should AC power fail, it will remain operational for a minimum of eight hours. The CSC-960™ also provides continuous operation despite operator workstation failure.

- Convenient front activation panel with 10 programmable push button standard (expandable).
- Two way operation also configurable for one way.
- Enhanced operation available by adding our CompuLert™ Graphic User Interface software and work station with Windows 2000/XP.
- Use as stand-alone encoder with printer for two-way activation and status feedback.
- Compatible with FSK, DTMF and TTS siren decoder controllers
- Communicates with ASC's RTU (Remote Terminal Unit) that can control and monitor voice or motor sirens as well as interface to interior building voice systems, (Mass Notification Systems) for emergency notification.
- Battery back-up and non-volatile memory for uninterrupted operation during AC failures.
- Easy "plug and play" installation designed for desktop or rack mount for easy dispatch console integration.



**AMERICAN
SIGNAL CORPORATION**

UNIVERSAL-RTU



The **Universal Remote Terminal Unit (U-RTU)™** is a powerful and innovative siren controller capable of both control activation and data acquisition or local data processing only.

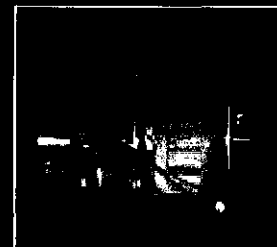
The results of over 25 years of experience satisfying our customers, the **U-RTU™** siren controller is designed to provide unparalleled flexibility, offering digital FSK, DTMF, and TTS tone and data decode compatibility, as well as radio communication bandwidth versatility. The **U-RTU™** is capable of being activated and tested from multiple encoder locations.

In Two-Way Control and Status system, siren activation and the monitoring of siren operation, or fault conditions, are accomplished in the **U-RTU's™** computer.

Combine our standard **U-RTU™** with our **CompuLert™ CSC-960™** central encoder for any electromechanical or electronic voice siren.

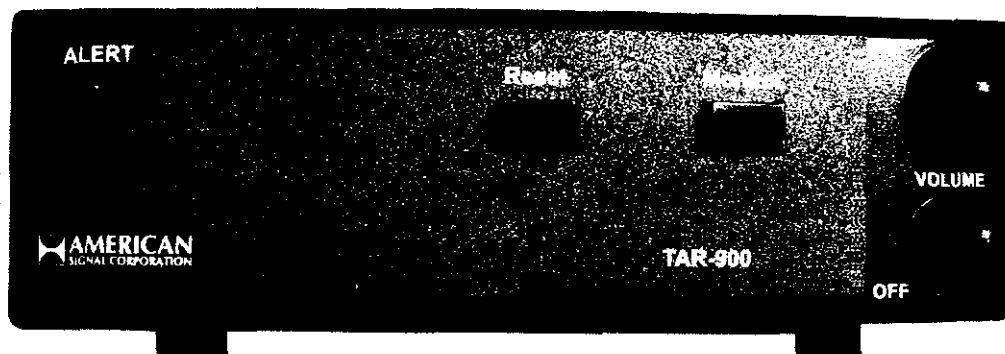


- Can be configured for one way or two way control & status monitoring.
- Communications interface include VHF, UHF, 800 and 900 Mhz conventional and trunking systems, as well as telephone dial up or hardwire, wireless IP and satellite.
- RS-232 & RS 485 Communication ports standard.
- I/O 16 digital standard.
- Local test/activation buttons, and an optional external activation kit for hardwired local control.
- Optional 8-channel analog cards available for interface to sensors such as meteorological stations, flood levels, nuclear ring, pumps, etc.
- Battery back up available when required.



AMERICAN
SIGNAL CORPORATION

TAR-900™



The latest in innovative emergency notification products from ASC. With over 60 years of experience in the warning system industry, ASC provides the TAR-900™ Tone Alert Radio for notification to industries, institutions, and residents in the event of an emergency.

The TAR-900™ provides high quality voice broadcast and alerting tones to alert and notify listeners about tornados, lightning storms, hazardous material incidents, and many more emergency scenarios. The system can be activated by County, City, or Village emergency radio dispatchers, or by industrial plant security officers or administrators.

In addition, the TAR-900™ can be equipped with Battery Back-up and Solid State Voice Storage to record emergency events for those short periods when an officer is unattended.

We encourage you to compare the TAR-900™ with other units. We think you will agree that the TAR-900™ is a much better value for the dollar than any other tone alert receiver on the market.

- Programmable RF & Tone Codes from VHF Low Band to UHF
- Tone/Monitor Capabilities
- Rugged Steel Construction
- External Speaker Jack
- Telescoping Antenna
- High Quality, 2 Watt Audio Output
- One Year Parts Warranty

- Battery Back up
- Remote Switch Output (RSO Relay) for Activating External Devices
- Programming Kit
- CompuLert™ FSK

- Schools
- Industry
- Hospital/Nursing Homes
- Daycare Facilities



**AMERICAN
SIGNAL CORPORATION**

TAR-900™

OPERATIONS

Low	29 MHz to 54 MHz
High	136 MHz to 174 MHz
UHF	406 MHz to 512 MHz

Single or Two-Tone with Group Call DTMF, Motorola, Plectron or GE (288.5 Hz to 2704 Hz) or Compulert™ FSK digital protocol.

Antenna Jack	Whip Antenna BNC
Speaker Jack	3.5mm IMP, 4 ohms
Remote Switch Jack	0.6A@110 VAC 2A at 30 Vdc

PERFORMANCE

Low Band	0.4 uv/m	0.3 uv/m
High Band	0.4 uv/m	0.3 uv/m
UHF	0.5 uv/m	0.5 uv/m

Squelch 210 mA

Full Output 580 mA

Low 230 Hz

High 2000 Hz

10% THD 2.5 Watts

Maximum Output 3.0 Watts



Standard Accessories

Telescoping Antenna
DC Wall Transformer
Remote Switch Output

Optional Accessories

901-Rechargeable Battery Back up
902 Mobile Mounting Bracket

Limited One Year Warranty on Parts and Labor. Specifications subject to change without notice.

T-135 AC/DC

500 Hz ADVANTAGE

The latest in innovative emergency notification products from ASC. Developed with over 60 years of alerting and voice notification experience, the T-135™ is **the world's most powerful AC/DC Siren.**

The T-135-AC/DC™ siren is a 133.5 dB rotational directional siren designed for large urban and rural communities and nuclear power plant Emergency Planning Zones. The T-135-AC/DC™ is the world's largest siren. It will cover the same radial area as three (3) to four (4) competitor's sirens 130dB. This will reduce the number of sirens and associated installation and maintenance costs necessary for your community.

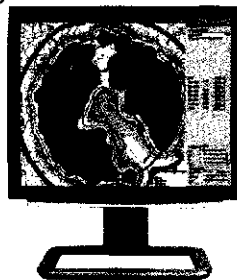
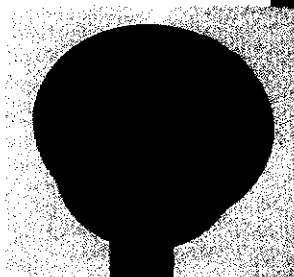
ASC can also provide all electronic control components such as the Siren Control, Radio Decoder (optional), and Service Disconnect to one mounting channel which is pre-wired at the factory. The mounting configuration reduces field installation mistakes and installation time and cost.

siren utilizes aluminum sound-producing components which are covered in color-impregnated fiberglass to eliminate rusting and painting maintenance.

Sirens are mounted directly over the center mounting poles so that guy wires are not required.

The Tempest™ Series can be connected to your personal computer and monitored from almost anywhere.

Our expert team can custom create an Early Warning System to suit your needs to maximize the life saving potential.



Features

World's Most Powerful AC/DC Siren.

P50 AC/DC upgrade.

133.5 dB Output on AC Power
132.8 dB Output on DC Power
at 100ft. per FEMA CPG 1-17.

UL Listed on head and controls.

70 dB ranging radius of over 11,000 ft and a 60dB ranging radius of 16,000 ft.

Coverage equal three (3) to four (4) 130 dB rated competitor's sirens most coverage per dollar.

Saves on installation & maintenance costs.

Standard 3 signal tones, signals, local test, and cancel.

Rugged, long lasting fiberglass construction.

Center weight counter balanced.

5 year siren head warranty.

Nickname

"The Monster"

Largest AC/DC Siren in the world.

AMERICAN SIGNAL CORPORATION

T-135AC/DC

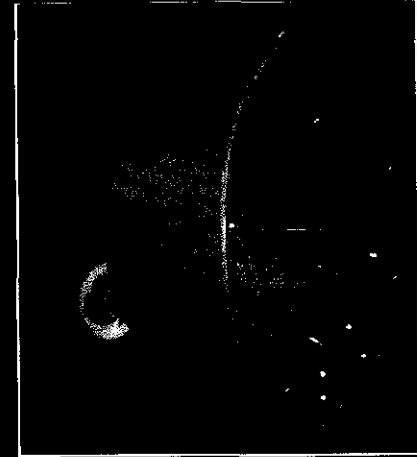
Tempest-135-AC/DC	AC - 133.5 dB @ 100ft. DC - 132.5 dB @ 100ft.
Controls	MCT-135-AC
Running Amps, AC Side	108 Amps
Controls	MCT-135-DC
Running Amps, DC Side	285 Amps
Operation Temperature	-40°C to 60°C
Storage Temperature	-65°C to 125°C
Humidity	0%-100% (non-condensing)
Wind Speed	100 Mph
LxHxW	52" x 60" x 59"
Siren Weight	571 lbs.
Control Cabinet (std)	AC - 270 lbs. DC - 213 lbs.

STANDARD 3 SIGNAL FORMAT

ALERT 

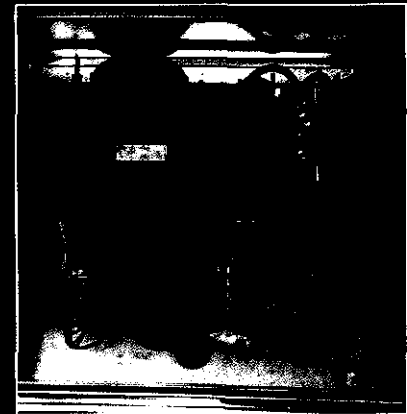
ATTACK 

FIRE 



INSTALLATION

For maximum sound dispersion, the siren should be mounted 60° off the horizon. An optional pole mount is available for mounting the poles on a standard wooden utility pole. The center mount, low altitude design eliminates the need for support wires. The siren can also be mounted on proper structures, such as roofs, towers, etc. Mounting brackets for these applications, and additional installation accessories, are available from American Signal.



T-135 AC Motor Control



T-135 DC Motor Control