



COUNTY OF DANE
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
Room 425 City-County Building
210 Martin Luther King Jr. Blvd.
Madison, WI 53703-3345
608/266-4131
FAX 608/266-4425 TDD 608/266-4941

TRAVIS MYREN
Director of Administration

CHARLES HICKLIN
Controller

ADDENDUM # 1

DATE: September 26, 2011
TO: All Prospective Proposers
SUBJECT: **Request for Proposal # 111065**
Siren Control and Warning System Improvements

The following addendum becomes a part of the above referenced RFP. All other terms and conditions remain in effect, unchanged.

A mandatory vendor conference was held at the Dane County Emergency Management Office , 115 West Doty Street, Room 2107. Madison, WI 53703, September 12, 2011 at 1:00 p.m.

The following companies were present at the pre-proposal conference:

Name	Affiliation
Tom Cypert	Federal Signal
Dom Smith	Federal Signal
Ernie Companion	American Signal
Jim Beyer	Hill Electric
Gary Pelletier	General Communication
Mike Borman	ATI Systems
Rick Wimberly	Galain Solutions (Consultant to Project)
Randy Wiesner	City of Madison Engineering
Chad Fleck	Dane County 911
Dave Janda	Dane County Emergency Management
Tim Pierce	Dane County Emergency Management
Francisco Silva	Dane County Purchasing

Dave Janda from Dane County Emergency Management gave a brief overview of the scope of the project.

The following is a listing of answers to questions raised during the vendor conference:

- **Will the sign-in sheet be posted/available of the individuals present at the vendor conference?** Please see above.

- **How do you envision the siren system fitting into the DaneCom system timeline?** The frequency has not been selected at this time, however it is expected to be between 450-470 mHz. The portion related to the siren system is hoped to be established in early 2012, before April.
- **Will the new frequency be dedicated to the siren system?** Yes
- **Who is responsible for Radio Propagation? Has there been a propagation study/coverage map produced?** Radio propagation was studied as part of the DaneCom system with the primary site being at the UW tower and the secondary site at the Verona tower based on using 3.0 dB antennas at 20 feet and 25 watt radios. The propagation maps are attached below.
- **How will coordination happen between both siren systems?** It is expected there will be a transition period with both systems concurrently online. The system is expected to be switched over through a geographic method. During this period the sites will most likely have two systems in place. Physical space is available for equipment at the activation points.
- **Which sirens are located on rooftops?** Chamberlain Hall, Madison East High School, and the City-County Building.
- **Which sirens have local control? Which sirens are currently sounded for Fire Departments?** The following sirens are sounded for fire departments: Mazomanie, Belleville, Brooklyn, and Marshall. The following sirens have the capability to be sounded locally, separate from the Dane County control point: Mazomanie, Cross Plains, Shorewood Hills, Mt Horeb, Blue Mounds, Brooklyn, Belleville, Marshall, Deerfield, DeForest, and McFarland
- **Will the questions from today's vendor conference be posted?** Yes, they will be posted to the website as an addendum
- **Is there a time period where work would not be done?** It is expected that during severe weather work would not proceed. It is anticipated that each outdoor warning siren will have minimal downtime.
- **What if there is a delay in the DaneCom system?** This project will proceed independent of the DaneCom system with the exception of the frequency acquisition and base installation.
- **Are schematics available for the existing siren system such as the 48V DC configuration or the 240V AC configuration?** Schematics are not available for the voltage configurations as there is no set standard for the current 123 sirens. The Zetron Model 1708 RTU setup is attached below.
- **What is the current Reverse 911 system being used.** The system is Reverse 911 by Cassidian Communications, formerly Plant CML.

- **What is the level of yearly investment for the Reverse 911 system?** The current investment is \$12,000 per year. However, that does not include the original acquisition cost of the system or monthly costs for dial tone for the current system.
- **Do you anticipate siren sites being down overnight/more than 24 hours?** It is expected that sites will be down for no longer than a single working day (8 hours) unless prior approval is granted by the project manager
- **Who is providing the UHF base stations?** These stations will be Harris Master III base stations with tone control via microwave provided through the DaneCom system contractor.
- **If a vendor submits a bid as a prime contractor can they also submit as part of another bid as a sub-contractor to a different prime contractor?** Yes, provided the different prime contractor attended the mandatory vendor conference.

The following is a listing of clarification answers to questions received up until September 21, 2011

- **During the site visit, will pictures be allowed to be taken?** The county prefers no picture be taken
- **Page 2 Section 7.0 of the Table of Contents titled “SPECIAL CONTACT TERMS AND CONDITIONS” does not properly identify the section as it appears in the RFP starting on pages 52-54. Please clarify what the county wishes to include in this section, but most specifically, please clarify what are the expectations regarding subsections 7.1 Payment Requirements, 7.2 Liquidated Damages and 7.3 Performance Bonds?** The RFP has been updated to correct the discrepancy. Please see upcoming addendum #2 with the stated changes.
- **Will the City provide a secure, but subcontractor-accessible, staging area or lay-down yard in which the siren equipment can be stored and in which a crane, flatbed truck and other vehicles can maneuver around with equipment?** The County will not provide a staging area or a lay-down yard.
- **1.2.2.3 What methods are preferred and approved for information exchange by agreement between Dane County and the National Weather Service?** Dane county receives information from the National Weather Service by NAWAS, the TIME system, EAS, iNWS, and the local forecast office website. If Dane County wishes to issue a local alert via the National Weather Service this is done by telephone and fax and is documented in the Dane County EAS Plan.
- **Has the budget for this project been publically stated or released? If so please provide the budgeted amount?** Yes, \$581,250.00

- **Is a current RF study conducted by Dane County available; our understanding is a radio propagation study (including considerations for the existing equipment infrastructure and new base station equipment to be supplied by Harris) has been completed by General Communications for Dane County utilizing the UHF frequency for operation of the new siren control system?** Please see the previous question titled: Who is responsible for Radio Propagation? Has there been a propagation study/coverage map produced?
- **Please verify the minimum equipment standards recommended by General Communications; (radio wattage output, antenna type and gain and the height of the antenna)?** Please see the previous question titled: Who is responsible for Radio Propagation? Has there been a propagation study/coverage map produced?
- **Can the County provide schematics indicating how the Zetron radios are interfaced with each siren?** Please see the previous question titled: Are schematics available for the existing siren system such as the 48V DC configuration or the 240V AC configuration?
- **Can the county provide the street address and/or the GPS latitude and longitude coordinates of the current siren locations?** At this point in the process the data originally given in the RFP should be sufficient for planning purposes. The selected vendor will be given access to an ESRI Shape file with the exact locations.
- **The specification defines the replacement of the simplex (single channel) base stations with duplex (2-channel) base stations. Are the UW and Verona towers both intended to be operated as conventional 2-channel repeaters or will they be single channel base stations?** These will be single channel base stations.
- **How are the primary and backup towers selected?** The UW tower will be the primary site and the Verona tower will be the secondary site.
- **What communication links exist between the two activation point locations and the microwave system?** The activation point and the microwave system are connected by a wire line connection.
- **Please provide the RF frequency(s) or frequency range for antenna selection.** Please see the previous question titled: How do you envision the siren system fitting into the DaneCom system timeline?
- **5.2.1 Section D of the RFP states *all electrical components shall be UL approved electrical control equipment*. Can Dane County please clarify...Underwriters Laboratory (UL) does not approve electrical equipment/ components; rather they go through a preliminary and on-going electrical inspection process that allows siren and associated equipment companies (RTU's, radios, sensors etc.) to mark and label their equipment as UL Listed. We request that the above specification be modified to state something to the effect that components *shall be UL listed and labeled*. The RFP has been updated with the proper terminology. . Please see upcoming addendum #2 with the stated changes.**

- **What model Harris radio will be used at the activation points?** Please see the previous question titled: Who is providing the UHF base stations?
- **Will there be any cooperation with the interface of the proposed activation equipment and the providers of the new Harris radios at the control points? Will a pin-out of the accessory plug on the new Harris radios be provided to bidders?** General Communications will be available to assist with the interface. The selected vendor will not be responsible for the interface between the microwave and the base radio at the UW site and the Verona site, however the vendor will be responsible for interface between the activation point(s) and the microwave system.
- **Are there any siren sites / siren heads that are currently out of service?** There are currently no sirens out of service.
- **Will there be an opportunity to submit additional questions upon completion of the site walk-through?** Vendors participating in the site walk-through will be able to ask questions during this time period. These questions will be documented and posted as an addendum.

Please acknowledge receipt of addendum(s) on the bottom of the Signature Affidavit when you submit your proposal.

If you have any questions regarding this addendum, please contact me at 608/267-3523.

Francisco Silva, CPPB
Purchasing Agent

RAPTR Version 17.0 XP b37

Saturday, January 15, 2011 16:02:06

Project: Dane Co UHF sirens

MBP: 2011-5

Figure: UW Tower talkback

Design: Bounded Area

Service: Mobile, Talkback, Outdoors, NB Analog Conventional

Engineer: 6TRF

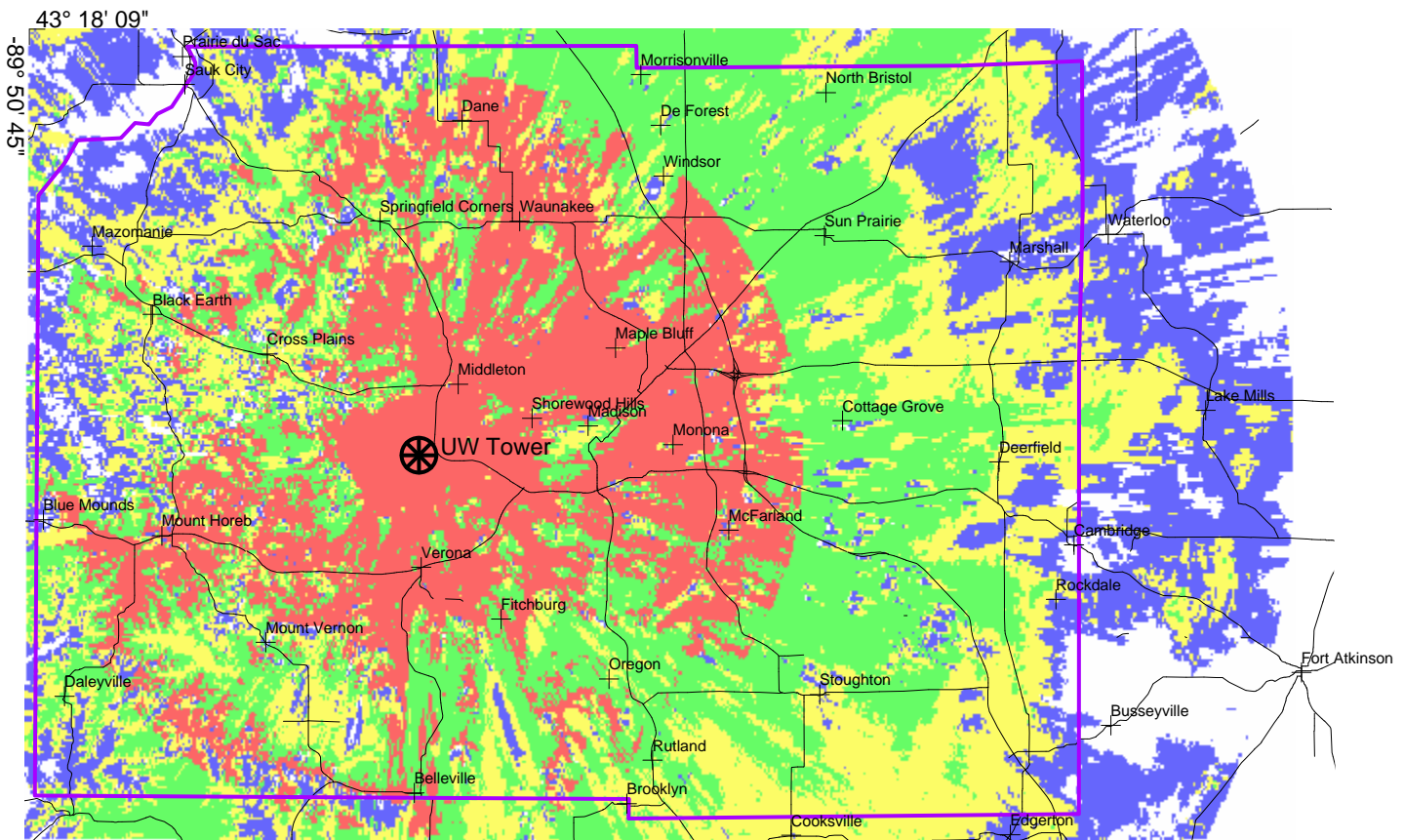
Map type - 1:475,779

Note: Map depicts coverage across the defined service area. Statistical variability does not allow for guarantee of coverage in specific locations, but does represent graphically area % coverage.



< -99.0dBm < -89.0dBm < -79.0dBm < -69.0dBm < 0 dBm

Scale - miles



RAPTR Version 17.0 XP b37

Saturday, January 15, 2011 15:59:28

Project: Dane Co UHF sirens

MBP: 2011-5

Figure: UW Tower talkout

Design: Bounded Area

Service: Mobile, Talkout, Outdoors, NB Analog Conventional

Engineer: 6TRF

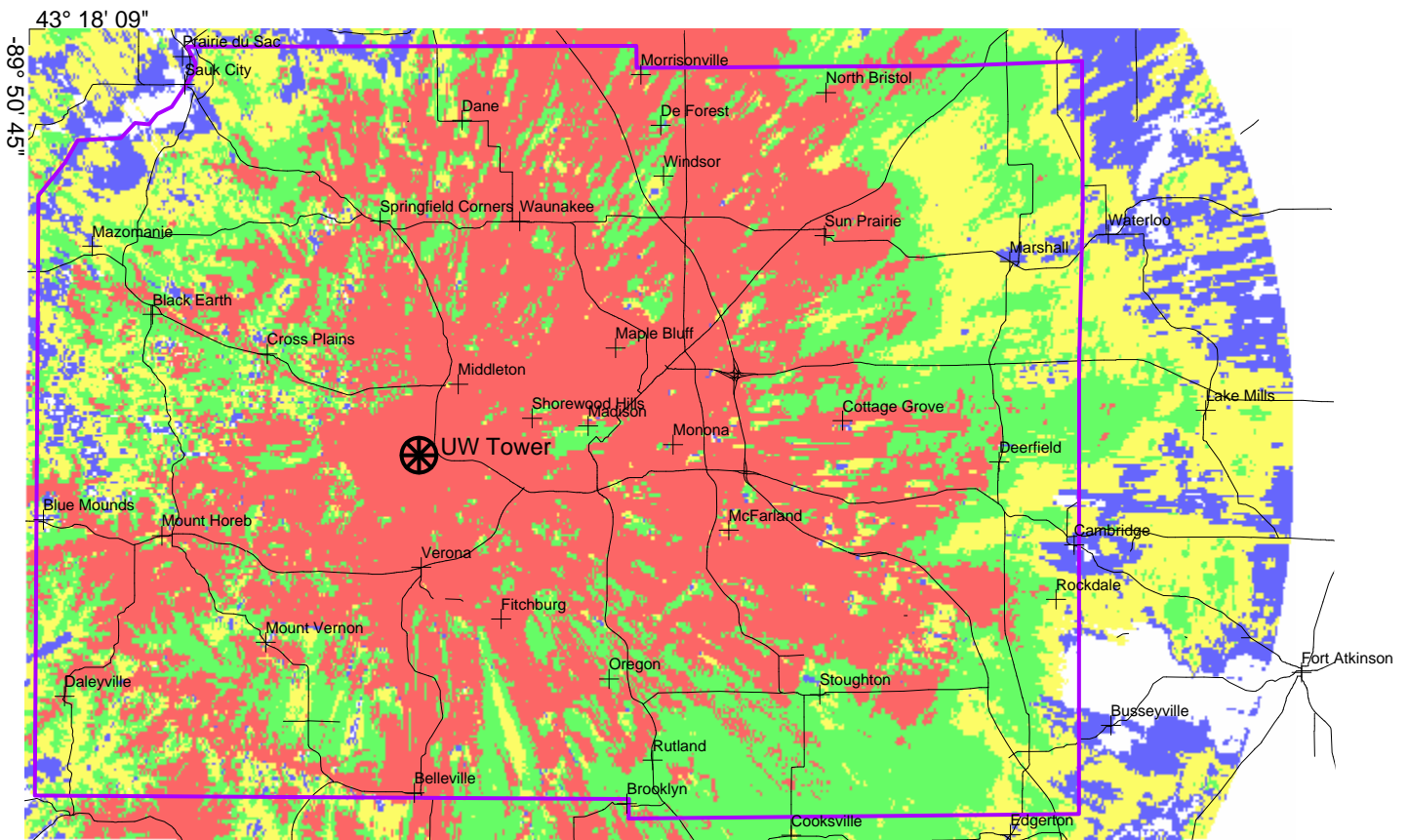
Map type - 1:475,779

Note: Map depicts coverage across the defined service area. Statistical variability does not allow for guarantee of coverage in specific locations, but does represent graphically area % coverage.



< -99.0dBm < -89.0dBm < -79.0dBm < -69.0dBm < 0 dBm

Scale - miles



RAPTR Version 17.0 XP b37

Saturday, January 15, 2011 15:49:13

Project: Dane Co UHF sirens

MBP: 2011-5

Figure: Verona talkback

Design: Bounded Area

Service: Mobile, Talkback, Outdoors, NB Analog Conventional

Engineer: 6TRF

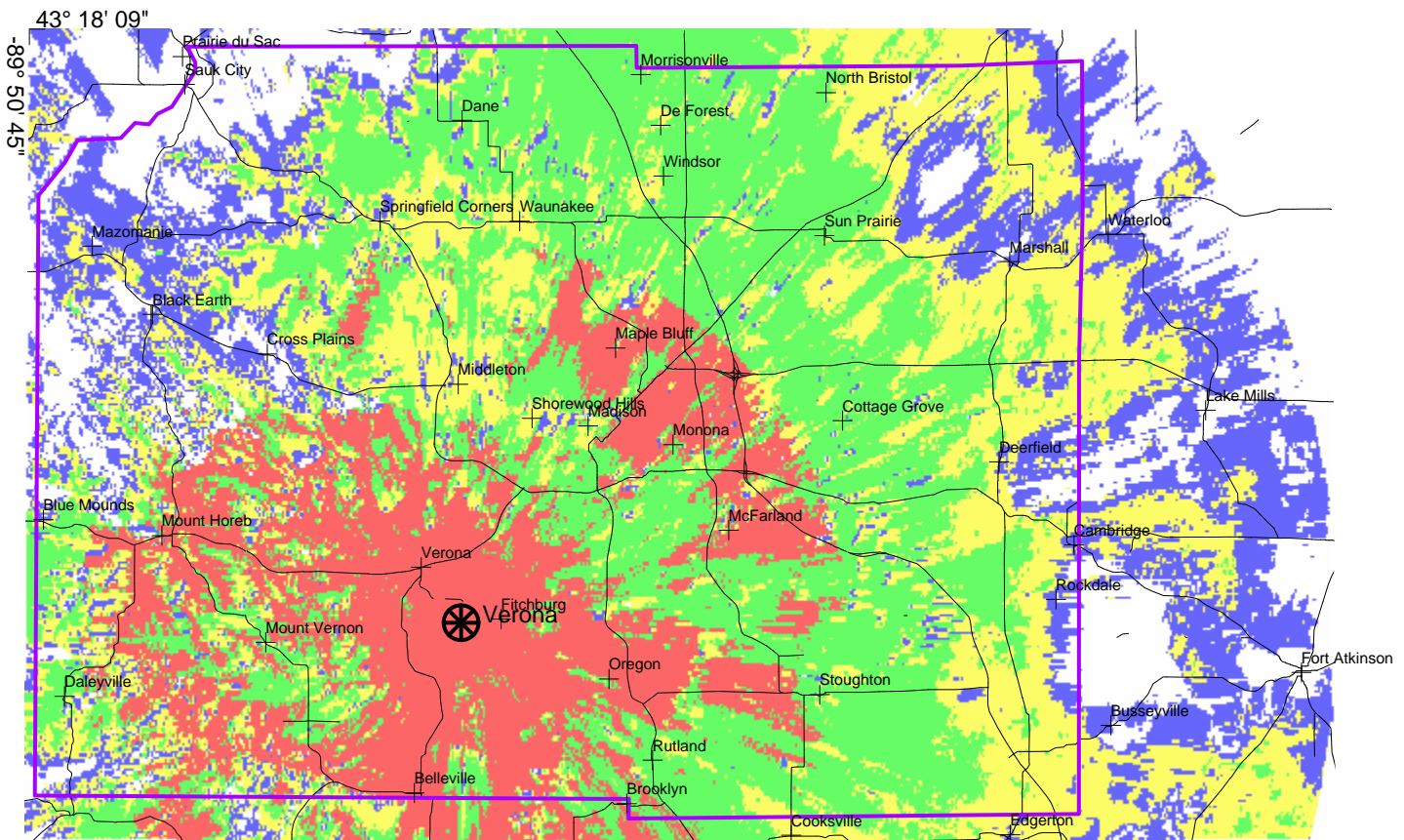
Map type - 1:475,779

Note: Map depicts coverage across the defined service area. Statistical variability does not allow for guarantee of coverage in specific locations, but does represent graphically area % coverage.



< -99.0dBm < -89.0dBm < -79.0dBm < -69.0dBm < 0 dBm

Scale - miles



RAPTR Version 17.0 XP b37

Saturday, January 15, 2011 17:01:11

Project: Dane Co UHF sirens

MBP: 2011-5

Figure: Verona talkout

Design: Bounded Area

Service: Mobile, Talkout, Outdoors, NB Analog Conventional

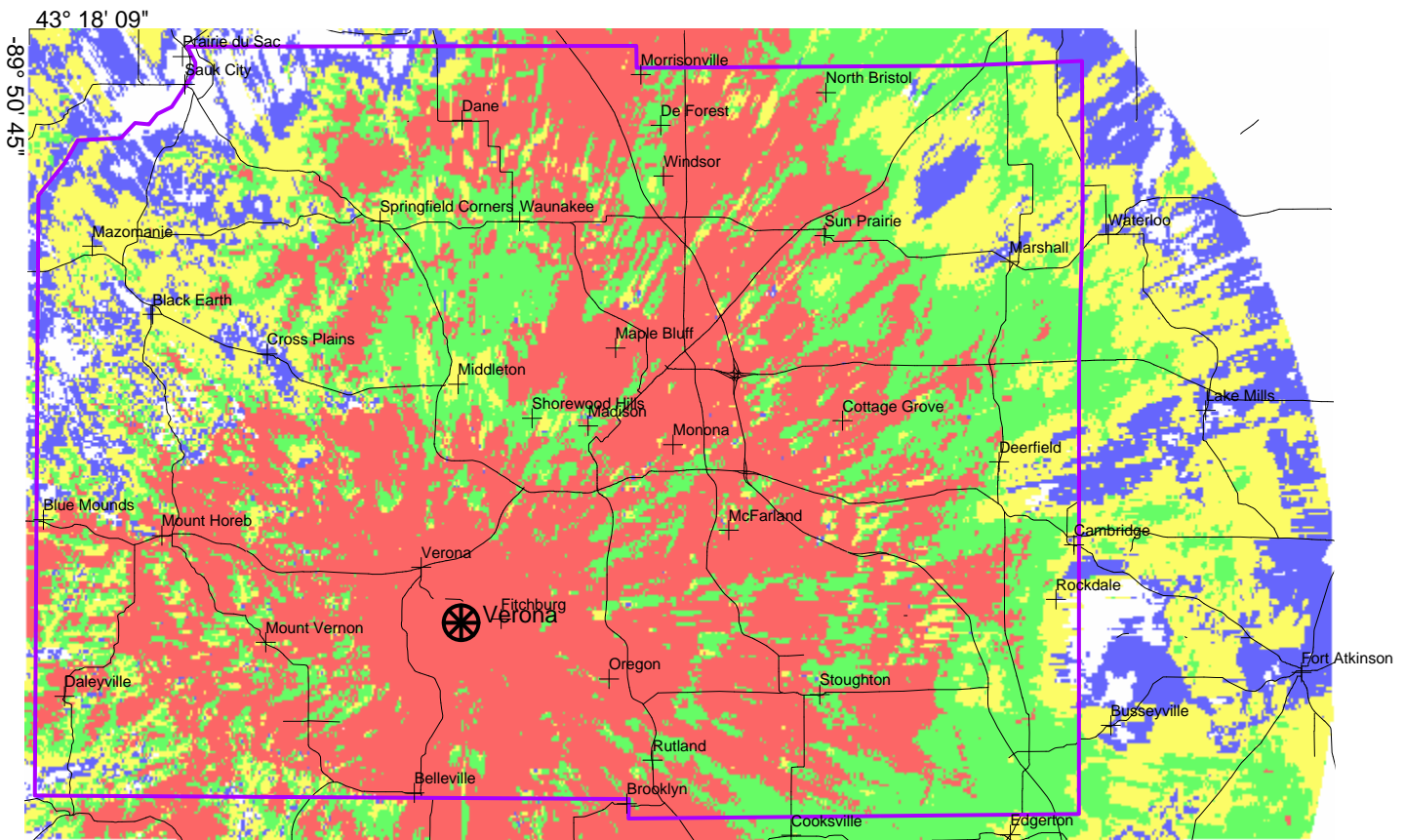
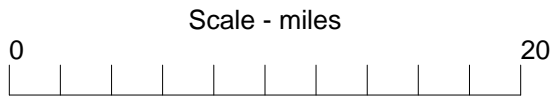
Engineer: 6TRF

Map type - 1:475,779

Note: Map depicts coverage across the defined service area. Statistical variability does not allow for guarantee of coverage in specific locations, but does represent graphically area % coverage.



< -99.0dBm < -89.0dBm < -79.0dBm < -69.0dBm <0 dBm



September 25, 2000

Dane County Outdoor Warning Siren
Zetron Model 1708 RTU Setup

Main Menu

- Prekey time: 5
- COR: low
- Channel busy timeout: 5
- Transceiver type: Conventional
- Address extension: 0
- Controller address: 1
- Group call address: **See Location List**
- Fail safe setup:
 - Communications failure: 0 (disable)
 - Channel use limits: 0 (disable)
 - Enable exception reports
- Store and forward: all 16 slots 0, (disable)

- Output definition:

○ Output 1	Momentary 5 seconds	Quiet Test to PLC I-5
○ Output 2	Momentary 5 seconds	Not Used
○ Output 3	Momentary 120 seconds 5	Alert to PLC I-7
○ Output 4	Momentary 120 seconds 5	Cancel to PLC I-9
○ Output 5	Momentary 5 seconds	Not Used
○ Output 6	Momentary 5 seconds	Poll, no PLC connection
○ Output 7	Momentary 5 seconds	Not Used
○ Output 8	Momentary 5 seconds	Not Used

- Digital input definition:
 - Input 1: Enabled, Status, de-bounce 4200, AC Power detect.
From PLC Q-2
 - Input 2: Enabled, Status, de-bounce 600, DC Power detect.
 - Input 3: Enabled, Status, de-bounce 5, Quiet test results.
From PLC Q-3
 - Input 4: Enabled, Status, de-bounce **See Location List**
for de-bounce times. Siren activation status input. From PLC Q-5
 - Input 5: Enabled, Status, de-bounce 5. Not Used
 - Input 6: Enabled, Status, de-bounce 5. Not Used
 - Input 7: Enabled, Status, de-bounce 5. Not Used
 - Input 8: Enabled, Status, de-bounce 5. Not Used

- Analog Input definition: all 4 inputs disabled.

Set address dipswitch as listed on Location List.