VILLAGE OF SUGAR GROVE
BOARD REPORT

TO: VILLAGE PRESIDENT & BOARD OF TRUSTEES

FROM: PATRICK ROLLINS, CHIEF OF POLICE

SUBJECT: DISCUSSION: RESOLUTION TO APPROVE THE PURCHASE AND INSTALLATION FOR THE VILLAGE'S OUTDOOR EMERGENCY SIREN HARDWARE AND SOFTWARE ACTIVATION SYSTEM

AGENDA: APRIL 15, REGULAR MEETING

DATE: APRIL 9, 2025

ISSUE

Should the Village Board approve a Resolution with Fulton Technologies for the Village's Outdoor Emergency Warning Siren system by implementing an interface that will activate when the National Weather Service sends out specific data about a tornado warning for our area.

DISCUSSION

The Police Department discussed the interface and resolution at the last Village Board meeting on March 18, 2025.   During the discussion, a couple of trustees asked for additional information regarding the time lapse of when a notification goes out and the response of the Emergency Warning Sirens being activated.   In addition, a trustee inquired about client references around the area or in the country regarding the use of this system.   Staff reached out to the vendor and spoke about the time latency of receiving the data packet sent out by the National Weather Service and the activation of the sirens. There will be two means to receive the data packets from the National Weather Service; by satellite and as a back-up, the internet.   The primary method will be the satellite connection.   The satellite will allow the data packets to flow to our local computer within seconds of it being pushed out by the NWS.   From here, the local device interprets all the code and determines if Sugar Grove or our area is within the tornado warning area. If so, it will send the activation code to start the emergency warning sirens off in the community.   The second (back-up) method will be by an internet connection.   This is about every minute the local computer goes out looking for the code that applies to our designated area.   Speeding up the internet process, forcing it to look quicker will look like an attack on the network system and could end up getting a DNS (denial of service) error message.

Staff spoke to several current customers who have been using Sentry Siren System for years, all have great reviews and mentioned that this system has allowed them to focus on multiple tasks at the same time during a storm event and not worrying about focusing in on the actual activating the sirens' part.

COST

The recommended system through Fulton Technology is budgeted this fiscal year under the approved capital improvement budget. In addition to this cost, there will be another cost to relocate the existing equipment in the police building temporarily over to public works, so that the system remains operational during the police department remodel/expansion project.   The PD received a quote for $18,800 for the software interface, new computer hardware and peripheral equipment from Fulton Technology.

RECOMMENDATION

That the Board discuss and provide direction to staff about approving Resolution 2025-0415PD-2 for the purchase of hardware and software for an interface between the National Weather Service and the Village of Sugar Grove for activating the Emergency Warning Sirens during a Tornado Warning.

RESOLUTION NO. 2025-0418PD-2

VILLAGE OF SUGAR GROVE, KANE COUNTY, ILLINOIS

RESOLUTION AUTHORIZING EXECUTION OF AN AGREEMENT WITH
Fulton Technology.

WHEREAS, the Village of Sugar Grove Board of Trustees find that it is in the best interest of the Village to purchase Hardware and Software for our Emergency Warning Siren System permitting an interface for the National Weather Service to activate Sugar Grove's Sirens during a Tornado Warning.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Sugar Grove, Kane County, Illinois, as follows:

The Chief of Police and/or his designee are hereby authorized to execute a contract/agreement on behalf of the Village with Fulton Technology for purchasing hardware and software that will permit an interface with the National Weather Service for activating Sugar Grove's Emergency Warning Siren during a Tornado Warning event.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Sugar Grove, Kane County, Illinois, at a regular meeting thereof held on the 15th day of April 2025.

_____

Jennifer Konen, President of the Board of Trustees of   the Village of Sugar Grove, Kane County, Illinois

_____

ATTEST:
       Traci Conti, Clerk
      Village of Sugar Grove

	Aye	Nay	Absent	Abstain
Trustee Matthew Bonnie	___	___	___	___
Trustee Sean Herron	___	___	___	___
Trustee Heidi Lendi	___	___	___	___
Trustee Michael Schomas	___	___	___	___
Trustee Sean Michels	___	___	___	___
Trustee James White	___	___	___	___

This letter will outline the capability of Sentry Siren's state-of-the-art software suite, **Storm Sentry**. With Storm Sentry, you can take all the information from the National Weather Service and put it in one place, your office. Best of all, do all this for one small cost: no monthly or yearly contracts. A one-time purchase of the hardware and software buys the user a lifetime of weather security. Our competitors in the industry only offer weather monitoring software packages as a subscription service.

When you compare the cost of those monthly or yearly contracts to Sentry's one-time purchase price, Storm Sentry will pay for itself within four years, on average. The Storm Sentry Advanced package offers state-of-the-art weather monitoring data, while also integrating the capability to automatically activate the warning sirens in the event of an emergency.

There are many significant benefits of a state-of-the-art storm monitoring and automatic activation software suite like Storm Sentry – a few of the key benefits and how they specifically relate to your community's weather monitoring and safety mission are given below:

- **24/7 PC Based Weather Monitoring:** Monitor real-time weather data, including local radar via high-speed internet and satellite on the Emergency Managers Weather Information Network (EMWIN) network and the National Weather Service (N.W.S.), 24/7. Storm Sentry is 100% automatic and does not rely on an individual to issue the emergency warning. When the N.W.S. issues a severe weather warning, Storm Sentry receives that message and activates the warning siren system. The length of time from when the N.W.S. issues the emergency alert to when the emergency notification system is activated is **10 seconds** on average. The Gibson Ridge 3D radar utilized in Storm Sentry is state-of-the-art and high definition. In fact, we use the same radar as most professional storm monitoring organizations. The radar indicates the track and intensity of the storm and monitors any specific attributes the storm possesses, such as hail or Tornado Vortex Signatures (TVS).

- **Automatic Messaging:** In addition to automatically activating the emergency notification system, Storm Sentry® will also automatically notify emergency personnel, employees, and even residents, of emergencies via text, email, telephone, or fax. We can also program the software to automatically publish the weather warning to a dedicated Twitter feed, Facebook page, or other social networking platform. Again, this is all done automatically, without the requirement of human intervention or supervision.

- **Reliability and Redundancy:** Storm Sentry® features two redundant data feeds – a high-speed internet feed and a G.O.E.S. satellite feed. These two feeds are independent from each other, allowing the software to operate with full functionality, even if service is interrupted from either the internet or satellite feed. If so desired, we can even incorporate multiple, separate satellite feeds for even further backup capability. We also incorporate a true UPS backup power supply for the software package that ensures the system will still operate in the event of a power failure.

- **Unlimited Flexibility:** Storm Sentry® can be programmed to monitor virtually any emergency situation. Severe snowstorms, tornadoes, earthquakes, tsunamis, or major floods are just a few of the weather events you can monitor with Storm Sentry®. Additionally, this software suite can be used to monitor amber alerts or even homeland security issues. Therefore, we can customize each individual Storm Sentry for the geographic region in which it serves. We are constantly expanding and enhancing the capability of Storm Sentry® to meet the ever-changing needs of our clients.

- **Unmatched Customer Service and Technical Support:** We stand behind our products and do everything possible to ensure our clients' installations are successful and functioning properly. We can remotely patch into any Storm Sentry in the field to troubleshoot and solve any issues that might arise. We do not charge for troubleshooting or software maintenance.

As you can see, there are many benefits our software can provide. And again, this is all available for a one-time fee.

If you have any further questions on the software or any other aspect of the project,

please do not hesitate to give me a call.
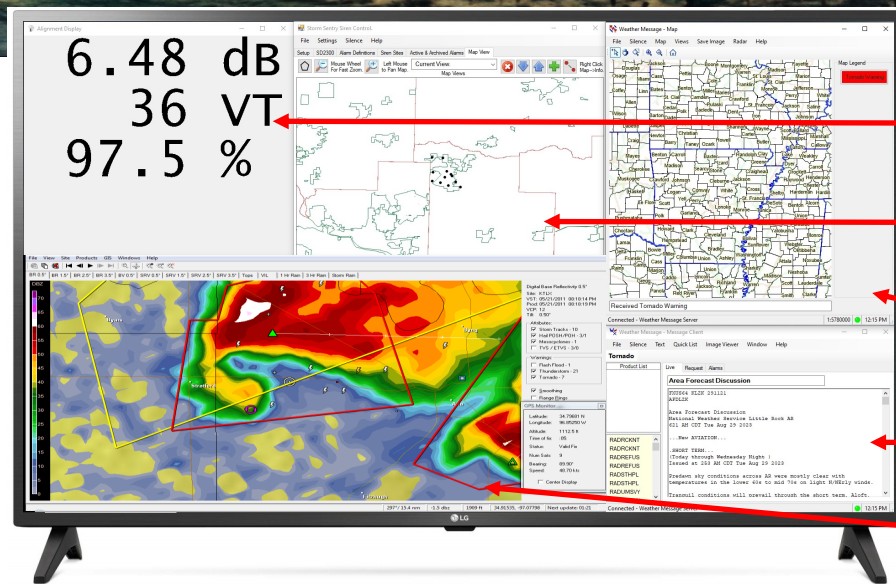
Sincerely,

Cruz L. Newberry

Table Rock Alerting Systems, LLC

417-230-6096

STORM SENTRY
BY SENTRY SIREN

Automated Weather Alerting

6.48 dB
36 VT
97.5 %

EMWIN Satellite Data Feed, Independent of Internet.

InfoStorm Point and Click Siren Activation Interface.

NWS Topographical Maps for Weather Tracking.

Weather Message Software for Monitoring NWS Data.

Gibson Ridge Live Radar Feed

43" Wall Mounted Display

Advantages

- **PC Based Weather Monitoring**
  Monitor real-time weather data, including local radar via high speed internet and satellite on the EMWIN network.

- **Real Time Warnings via the NWS**
  Be the first to know when severe weather approaches. 2-5 seconds after a warning is issued, it's on your desk.*

- **Automatic Messaging**
  Notify emergency personnel, even residents, of emergencies via text, email, telephone, social media or fax automatically without human intervention.

- **Automatic Siren Activation**
  Activate your siren system automatically. No need for a person to activate. The computers can control all siren functions.

For years emergency personnel struggled with receiving timely weather warnings from a dedicated and reliable source. The warnings were sometimes late, sometimes false, and worst of all, sometimes not received. This problem lead to the question "when do we activate our sirens, pagers, or emergency action plan?"

The key ingredient in the new **Storm Sentry** Weather Monitoring System is software that interprets and understands weather data. **Storm Sentry** has revolutionized the emergency notification market by making weather / emergency notification easier, faster, and best of all, **automatic.**

Take all the information from the National Weather Service and put it in one place, your office. Best of all, do all this for one small cost; no monthly or yearly contracts. A one time purchase of the hardware and software buys the user a lifetime of weather security.

Call today and let us help you explore what is possible with the **Storm Sentry**. From Sentry Siren, the makers of the world's most trusted warning sirens, comes the future of early warning technology.

SENTRY SIREN Inc.

STORM SENTRY
BY SENTRY SIREN

The Best Friend Emergency Managers Have … Is Information
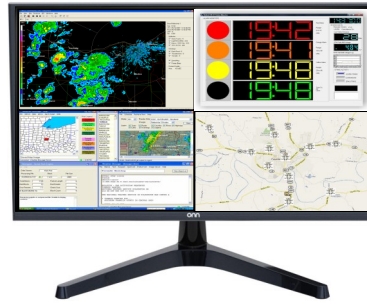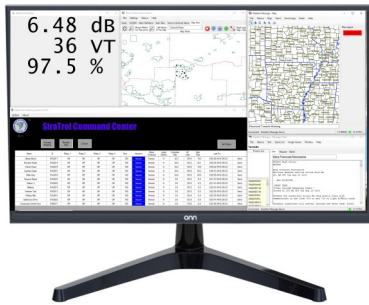
Storm Sentry Gold Package

- Mini Desktop PC with the latest Windows Operating System and Speakers.

- Wall-mounted 43" Monitor or dual, 24" desk-mounted Monitors

- Satellite Dish and EMWIN data receiver for wireless ingest of National Weather Service information—<u>your system can operate during an internet or power failure.</u>

- Siren Encoder and InfoStorm Activation Software for Automatic Siren Activation

- Kenwood NX-1000 Series Base Station Radio

- Base Station Antenna, Lightning Arrestor, and Power Supply

- Gibson Ridge Level 3 Radar Package or RadarScope

- NWS Polygon Warning System tracking

- Map and Message format display of Warnings

- No Subscriptions, Contracts, or Software Maintenance Agreements

- Onsite Programming, Setup, and Training

- Lifetime Technical Support and Remote Access

Be sure to ask about these available upgrades

- Sentry Siren S.T.A.R. Siren Monitoring System
- Siren Encryption
- Web/Phone/Cellular Based Siren Control
- Integrated Lightning Detection System
- Integrated Weather Station & Wind Sensors

Storm Sentry Locations/References:

Jonesboro, GA   Package: Gold

Dealer Info:

Sirens for Cities

Jeff Hood   Phone:

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Lincoln County, TN   Package: Gold

Dealer Info:

Sirens for Cities

Mike Hall or Kathy Hovis   Phone:

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Pike County, IN   Installation Date: 2011   Package: Gold

Dealer Info:

Direct

Ross Elmore   Phone:

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Village of Spencer, OH   Installation Date: 2011   Package: Gold

Dealer Info:

C&K Early Warning Systems

Dan DeRossett   Phone:

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Ashland Works/AK Steel Installation Date: 2011   Package: Gold

Dealer Info:

Direct

Jayne Haffer   Phone:

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City of Sugar Hill, GA   Installation Date: 2011   Package: Gold

Dealer Info:

Sirens for Cities

City EMA Director   Phone:

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Chattahoochee County, GA   Installation Date: 2012   Package: Gold

Dealer Info:

Sirens for Cities

Thomas Weaver   Phone:

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Woodward, OK   Installation Date: 2012   Package: Gold

Dealer Info:

Storm Sirens, Inc

Matt Lehenbauer   Phone:

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Pioneer Ki-Bred Int.   Installation Date: 2012   Package: Gold

Dealer Info:

Direct

Bill Orris   Phone:

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City of Chatsworth, GA   Installation Date 2013   Package: Gold

Dealer Info:

Sirens for Cities

Chief Baxter   Phone:

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Divide County, ND   Installation Date 2014   Package: Gold

Dealer Info:

Direct

Jody Gunlock   Phone:

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Chattooga County, GA   Installation Date: 2015   Package: Gold

Dealer Info:

Sirens for Cities

Eddie Henderson   Phone:

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Stilesville, IN   Installation Date 2015   Package: Gold

Dealer Info:

Direct

Mark Trusty   Phone:

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Melrose, NM   Installation Date 2015   Package: Gold

Dealer Info:

Direct

Barry Green   Phone:

Westfield, OH   Installation Date 2015   Package: Gold

Dealer Info:

C&K Early Warning Systems

Jim Likely   Phone:

Claremore, OK   Installation Date 2015   Package: Gold

Dealer Info:

Storm Sirens, Inc

Greg Long   Phone:

Rapid City (Pennington County), SD Installation Date 2015   Package: Gold w/IPAWS

Dealer Info:

Direct

Dustin Willett   Phone:

Nucor Steel-Crawfordsville, IN Installation Date 2015   Package: Gold

Dealer Info:

Direct

Marta Sweek   Phone:

Mason County (Maysville), KY Installation Date 2016   Package: Gold w/EPIC(2016)

Dealer Info:

Sirens for Cities   Phone:

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Waxahachie, TX   Installation Date 2016   Package: Gold w/IPAWS

Dealer Info:

Storm Sirens, Inc.

                                    Phone:

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Stewart County, GA   Installation Date 2016   Package: Gold

Dealer Info:

Sirens for Cities   Phone:

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Cuba, MO   Installation Date 2017   Package: Gold w/IPAWS

Dealer Info:

Storm Sirens, Inc.

Customer: Rodney Neff   Phone:

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Malakoff, TX   Installation Date 2017   Package: Gold w/IPAWS

Dealer Info:

Storm Sirens, Inc.

Customer: Tim Whitley   Phone:

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Elburn, IL   Installation Date 2018   Package: Gold

Dealer Info:

Direct

Police Chief Nicholas Sikora   Phone:

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Kiowa County, CO   Installation Date 2018   Package: Gold

Dealer Info:

Direct

Jerry Casebolt   Phone:

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Prowers County, CO   Installation Date 2018   Package: Gold

Dealer Info:

Direct

Jerry Casebolt   Phone:

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Randolph County, GA   Installation Date 2019   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

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Willow Park, TX   Installation Date 2019   Package: Gold

Dealer Info:

Storm Sirens, Inc.

Customer: Phone:

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Brush, CO   Installation Date 2020   Package: Gold

Dealer Info:

Direct

Customer: Chief Derek Bos   Phone:

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Albany, GA   Installation Date 2021   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

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Cabot, AR   Installation Date 2022   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Chad Moore   Phone:

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Palestine, AR   Installation Date 2022   Package: Gold

Dealer Info:

Storm Sirens, Inc.

Customer: Chief Jumper   Phone:

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Lorena, TX   Installation Date 2022   Package: Gold

Dealer Info:

Storm Sirens, Inc.

Customer: Phone:

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Poweshiek County, IA   Installation Date 2022   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: EMD Brian Paul   Phone:

Bellbrook, OH   Installation Date 2022   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Anthony Bizzarro   Phone:

Cohutta, GA   Installation Date 2022   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

Nickerson, KS   Installation Date 2023   Package: Gold

Dealer Info:

Storm Sirens, Inc.

Customer: Mayor Schrafwolfe   Phone:

Jessamine County, KY   Installation Date 2023   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Johnny Adams   Phone:

Comfort, TX   Installation Date 2023   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Danny Morales   Phone:

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Rincon, GA   Installation Date 2024   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

_____

Jefferson National Labs - Virginia   Installation Date 2024   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

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Orlando, OK   Installation Date 2024   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Monty Larman   Phone:

_____

Stoddard County, MO   Installation Date 2024   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Beau Bishop   Phone:

_____

Elliott County, KY   Installation Date 2024   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Dillon Lambert   Phone:

Rowan County, KY   Installation Date 2024   Package: Gold

Dealer Info:

Sirens for Cities

Customer: Phone:

Todd County, KY   Installation Date 2024   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Daniel Smith   Phone:

Harrison, AR   Installation Date 2024   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Marc Lowery   Phone:

Crescent, OK   Installation Date 2024   Package: Gold

Dealer Info:

Table Rock Alerting Systems

Customer: Ryan Wallace   Phone:

Ketchum, OK   Installation Date 2024   Package: Gold

Dealer Info:

Storm Sirens, Inc

Customer: Phone: