



Managing Risks in the Physical & Virtual World

JULY 16, 2025

Welcome & Introductions

- ▶ Craig H. Wilkie, Deputy Executive Director
 - ▶ Schedule
 - ▶ 8:30 a.m. – 9:00 a.m. – Registration & Breakfast
 - ▶ 9:00 a.m. - 9:05 a.m. – Welcome & Introductions
 - ▶ 9:05 a.m. - 10:30 a.m. Safety 360 Sensor Program
 - ▶ 10:30 a.m. – 10:45 a.m. - Break
 - ▶ 10:45 a.m. – 11:30 a.m. AI Deep Fakes Virtual Presentation
 - ▶ 11:30 a.m. – 12:00 p.m. Question & Answer Session
 - ▶ 12:00 p.m. Lunch
 - ▶ Emergency Exits
 - ▶ Bathrooms

Introduction to Safety 360

SCOTT C. TENNANT, DEPUTY EXECUTIVE DIRECTOR

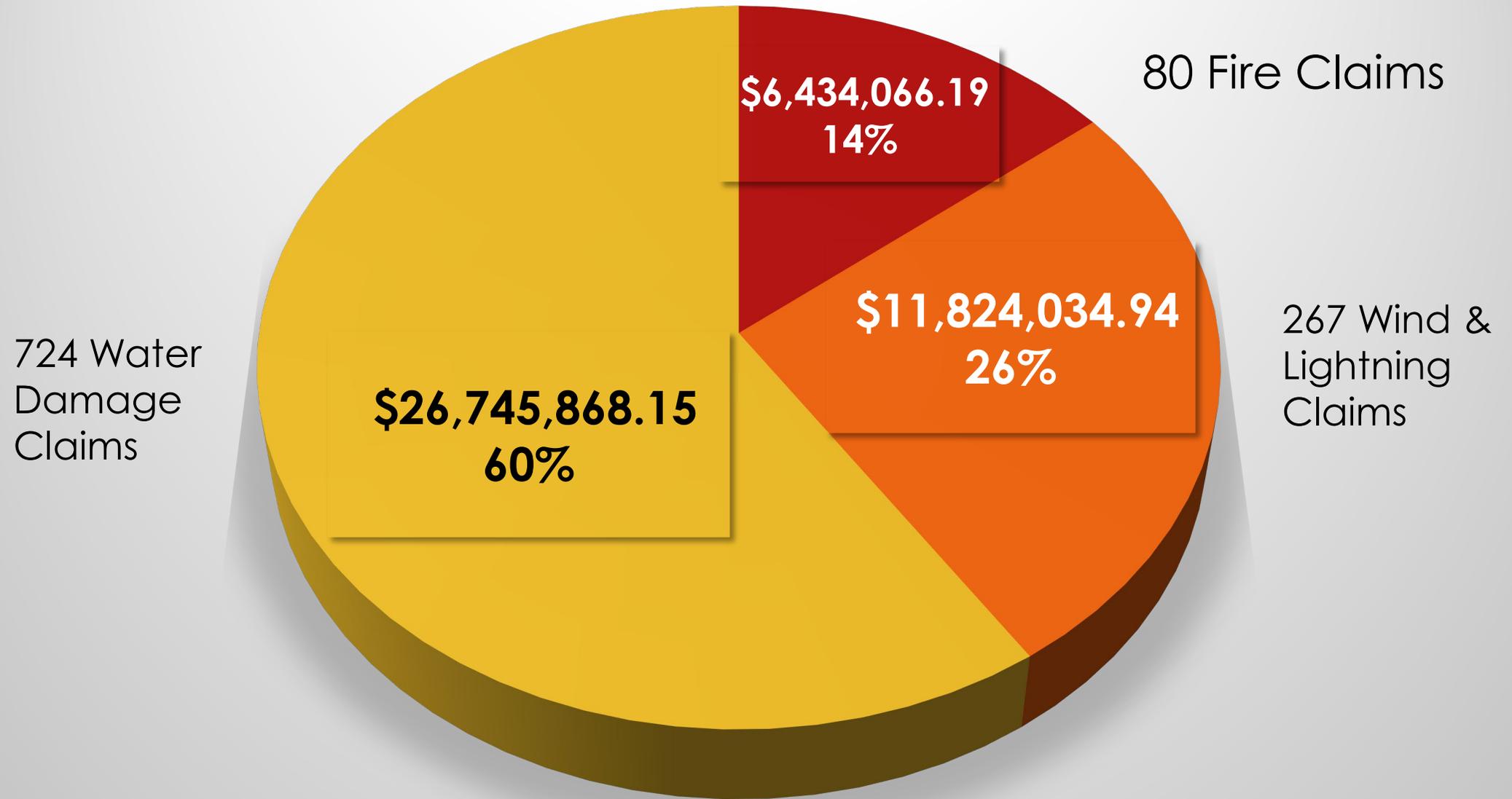
What is Safety 360

In the broader context of district safety, Safety 360 is a term for an organizational culture that encourages everyone to consider physical and virtual reality as they manage risk across their school district/s. Managing risk today requires an all in culture and practice.

Safety 360 Impediments/Challenges

1. Time
2. Retirement
3. Money
4. Towers
 1. Mentality
 2. Language
5. Distortion

SPELL Property Claims 35 Years



Value of Monitoring

- ▶ Sensors allow you to be proactive vs. reactive
- ▶ Notifications as incident is happening instead of “discovering” the problem when you are next in the building
- ▶ Collection of trend data for temperature and humidity in problem areas





Water Intrusion Tabletop Drill

RICK HILLMAN, VIRTUAL SAFETY DIRECTOR

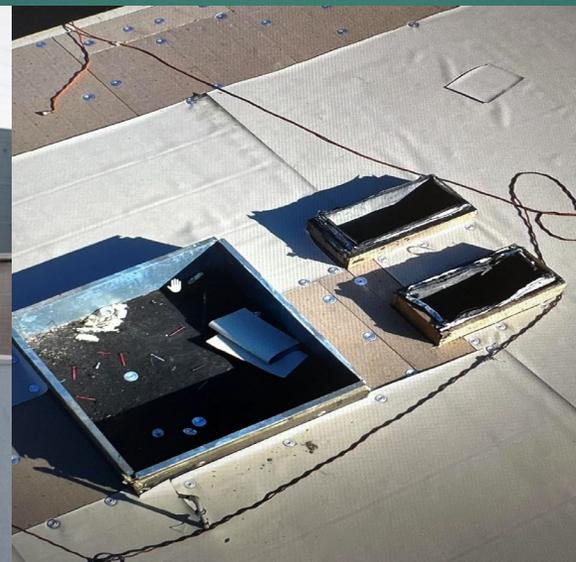
Tabletop Background Information

▶ School Profile:

- ▶ Roosevelt Middle School, three story building, 75 staff members, 650 students, built in 1903 with additions in 1950 & 1985.
- ▶ Summer Session in Progress, approximately 200 students attending summer programs.

▶ Project Profile:

- ▶ Ongoing Renovation Project – Rooftop HVAC Equipment - working 2nd Shift.



Friday, June 21st

- ▶ 9:00 PM: Contractors complete work for the day
- ▶ 9:30 PM: Contractors leave site without properly securing temporary HVAC roof openings
- ▶ 10:00 PM: Local weather service issues severe thunderstorm warning
- ▶ 10:30 P.M. Custodians/Cleaners shift ends
- ▶ 11:30 PM: Heavy thunderstorm with 3" of rainfall occurs
- ▶ 11:45 PM: Water begins entering building through unsecured roof openings



Monday, June 24th

- ▶ 6:00 AM: Head custodian, Michael, arrives at school and discovers flood and damage.



Discussion Topic 1

Immediate Response

- ▶ If you were this custodian what would be the first three things you would do upon discovering this?
- ▶ Who should be notified, in what order?
- ▶ Does your district maintain equipment to cleanup water intrusions, such as wet vacs, dehumidifiers, fans, air scrubbers?

Discussion Topic 2

Communication Strategy

- ▶ When and how would you notify parents & staff?
- ▶ What information should be in the initial communication, versus future periodic updates?
- ▶ How will you proactively manage staff/student health concerns?
- ▶ How would you manage social media and potential misinformation?

Discussion Topic 3

Documentation & Insurance Claim

- ▶ Who files the insurance claim?
- ▶ What happens when you file a claim?
- ▶ How do you balance a quick cleanup with gathering and preserving information & evidence needed by insurance?
- ▶ What evidence would you gather to demonstrate contractor negligence as the cause of this incident?

Discussion Topic 4

Remediation & Response

- ▶ How would you handle the logistical challenges of relocating summer programs?
- ▶ What internal resources does your district have to respond to this type incident?
- ▶ What should you look for when selecting a remediation contractor?

Discussion Topic 4

Remediation & Response - continued

- ▶ How will the remediation firm know what to do?
- ▶ What are the risks of cleaning this up with district staff before engaging with outside contractors?
- ▶ What is the value of using the SPELL Certified Industrial Hygienist?

Discussion Topic 5

Union Complaints, Regulatory Involvement

- ▶ How would you respond to staff health concerns ?
- ▶ If the union filed a complaint with NJ PEOSH, what steps could have been taken to mitigate that happening?
- ▶ What is needed to prepare if PEOSH does an onsite inspection?
- ▶ What strategies would you use to manage the relationship with the teacher's union?

Discussion Topic 6

Media Inquiries

- ▶ Who would act as Public Information Officer?
- ▶ Has your superintendent attended Crisis Communication Training?
- ▶ How do you prevent media inquiries from escalating the issues ?

Discussion Topic 7

Recovery Planning

- ▶ What criteria would you use to determine if the spaces are safe for re-entry?
- ▶ How would you prioritize repairs?
- ▶ What temporary accommodations might be needed for displaced students & staff?

The background features a dark teal gradient. Two large, semi-transparent arrows are positioned horizontally. The top arrow points to the left and contains the word 'REACTIVE' in a bold, sans-serif font. The bottom arrow points to the right and contains the word 'PROACTIVE' in the same font. A small red ribbon graphic is located in the top right corner.

How would your district respond ?

Reactive Response (What Happened)

- Discovery 60+ hours after initial water intrusion
- Extensive damage to building infrastructure
- Disruption to educational programs
- Staff health concerns resulting in regulatory and media involvement
- Higher remediation costs due to delayed response
- Potential for long-term mold issues
- Reputational Damage

Signs of Reactive Mindset

Responds to emergencies rather than developing preventative maintenance program to prevent them.

Operates without a clear comprehensive maintenance plan and multi-year budget.

Shows resistance to new technologies & processes/

Focuses on the short-term fixes vs. proactive investment for better operations.

Proactive Response (What could have been)

Internet of Things (IoT) Water Detection System:

- Water sensors placed in strategic locations throughout building
- Real-time alerts sent to multiple staff members when water detected
- Automatic notification to facilities team and administration
- Mobile app providing exact location of water detection
- Possibility to integrate with building automation system
- Historical data logging for analysis and reporting
- Estimated building wide implementation cost: \$ 7,500.00 and 15,000.00 depending on building size

Signs of Proactive Mindset

Develops and implements preventative maintenance programs.

Develops long term capital improvement plans and budgets.

Embraces data driven decision making.

Prioritizes continuous improvement.

Benefits of Early Detection



- Water discovery within minutes instead of days
- Immediate response possible even during off-hours
- Minimal water damage to building infrastructure
- Reduced or eliminated mold growth
- Minimal disruption to educational programs
- Lower remediation costs
- Faster recovery time
- No regulatory, media involvement or health concerns

Cost Savings- Proactive

- ▶ Reactive response to this incident:
 - Water remediation & clean up \$545,000
 - Gymnasium floor replacement: \$320,000
 - Equipment replacement: \$175,000
 - Air quality testing \$60,000
 - Total Cost of Claim : \$ 1,100,000.00
- ▶ Proactive response to this incident:
 - IoT Sensor Implementation \$ 15,000.00
 - Clean up minor leak \$ 65,00.00
- ▶ Single Claim Savings : \$ 1,020,000.00

Conclusion and Key Takeaways

▶ Contractor Management

- Implement strict contractor supervision and protocols
- Require daily site inspection before contractor departure
- Check daily with facilities staff be alerted to issues before they happen
- Include **specific language** about securing openings in contracts

▶ Early Detection

- Implement IoT water detection systems
- Establish 24/7 notification protocols
- Consider remote monitoring capabilities

▶ Response Planning

- Develop specific water intrusion response procedures
- Pre-qualify remediation contractors before incidents occur
- Train multiple staff members on initial response protocols

▶ Documentation

- Maintain detailed records of all incidents and responses
- Document with photographs and written reports
- Preserve all communication related to the incident



SPELL Sensor Program

RICK HILLMAN,
VIRTUAL SAFETY DIRECTOR

SPELL Sensor Program



▶ In Partnership with Travelers Insurance & Monnit

- Members can purchase sensors at a discount.
- SPELL will reimburse members up to \$1,000.00 subject to affirmation of acquisition and implementation
- Safety 360 Team Consultation
- Safety 360 Team Implementation Assistance
- Allows districts to move from Reactive to Proactive

▶ SPELL Sensor Program Resources

- Information Guide
- Sensor Program Purchase Information



SPELL Safety 360 Resources

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VIRTUAL SAFETY DIRECTOR



Safety 360 Resources

Click on the searchable links below to view and download valuable resources that help K-12 school districts address systemic cybersecurity risk. Have questions? [Contact Rick Hillman, your JIF Virtual Safety Director here.](#)

Table 1						
Views Grid view Hide fields Filter Group Sort						
	Document Name	Document#	Document Category	Document Type	Document Format	Attachm
1	Safety 360 Risk Advisory - Child R...	S360RA-001	Risk Advisory	Checklist	Word File	
2	Water Intrusion Standard Operatin...	S360-SOP-001	Water Intrusion Manag...	Standard Operating Pr...	Word File	
3	High Humidity Building Check Sta...	S360-SOP-002	Water Intrusion Manag...	Standard Operating Pr...	Word File	
4	Roof Drainage Checklist	S360-Checklist-001	Water Intrusion Manag...	Checklist	Word File	
5	HVAC Condensate Checklist	S360-Checklist-002	Water Intrusion Manag...	Checklist	Word File	
6	Leak, Moisture Control & Mold Res...	S360-BP-001	Water Intrusion Manag...	Best Practice	Word File	
	Stagnant Water and Mold...	S360-RG-001	Water Intrusion Manag...	Response Guideline	Word File	

SPELL Safety 360 Resources

[HTTPS://WWW.SPELLJIF.COM/SAFETY-360-RESOURCES](https://www.spelljif.com/safety-360-resources)



Cybersecurity Resources

Click on the searchable links below to view and download valuable resources that help K-12 school districts address systemic cybersecurity risk. Have questions?
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Document Name	Document#	Document Category	Document Type	Document Format	Att
1 Information Security Framework	ID-00	Information Security Fr...	Framework	PDF	
2 ISF-Risk Assessment	ID-01	Information Security Fr...	Framework	PDF	
3 Sample Vulnerability Management ...	ID-01-01	Information Security Fr...	Program Template	Word File	
4 Threat Intelligence Solutions	ID-01-02	Information Security Fr...	Solution List	Word File	
5 Information Security Assessment	ID-01-03	Information Security Fr...	Assessment Tool	Excel File	
6 ID-01-04A		Information Security Fr...	White Paper	PDF	

SPELL Cybersecurity Resources

[HTTPS://WWW.SPELLJIF.COM/CYBERSECURITY-RESOURCES](https://www.spelljif.com/cybersecurity-resources)



Emergency Preparedness Resources

Click on the searchable links below to view and download Emergency Preparedness Resources. [Contact Rick Hillman, your JIF Virtual Safety Director here.](#)

Table 1					
Views Grid view Hide fields Filter Group Sort					
	Document Name	Document#	Document Category	Document Type	Document Format
1	Emergency Preparedness Framework	EP	Emergency Preparedn...	Framework	PDF
2	School Safety & Security Plan - Cover Page	SSSP-CP	Emergency Preparedn...	Plan Template	Word File
3	School Safety & Security Plan - Introduction	SSSP-01	Emergency Preparedn...	Plan Template	Word File
4	School Safety & Security Plan - Stakeholders	SSSP-02	Emergency Preparedn...	Plan Template	Word File
5	School Safety & Security Plan - Target Hardeni...	SSSP-03	Emergency Preparedn...	Plan Template	Word File
6	School Safety & Security Plan - Response Prot...	SSSP-04	Emergency Preparedn...	Plan Template	
	Emergency	4.1.1	Emergency Preparedn...	Response Protocols	Word File

SPELL Emergency Preparedness Resources

[HTTPS://WWW.SPELLJIF.COM/EMERGENCY-PREPAREDNESS-RESOURCES](https://www.spelljif.com/emergency-preparedness-resources)



SPELL Safety 360 Services

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VIRTUAL SAFETY DIRECTOR

SPELL Safety 360 Services



Information Security

- Technical Assistance
- Implementation Assistance
- InfoSec Assessment
- Tabletop Exercises:
 - Ransomware
 - Social Engineering
 - Business Email Compromise
- Presentations
 - Cyber Awareness Training
- Document Resource Library



Emergency Preparedness

- Technical Assistance
- Implementation Assistance
- Safety Assessment
- Tabletop Exercises:
 - Intruder/Active Threat
 - Suspicious Package
 - Severe Weather
- School Safety Plan Template
- Document Resource Library



Buildings & Grounds

- Technical Assistance
- Implementation Assistance
- Facilities Assessment
- Tabletop Exercises
 - Water Intrusion
 - Power Failure
 - Gas Leak
- Contract Management
- Document Resource Library



QUESTIONS ?



15 Minute Break