

# Water Utility Resilience Forum

December 13 – 15, 2021 | Miami, FL

Cyber Resilience: Exercising Leadership

# Cyber Resilience: Exercising Leadership

- What does it mean?
  - Recover from setbacks
  - Adapt well to change
  - Keep going in the face of adversity
- How can we work together and help each other?

#### Why is Cyber Resilience Critical Now?

- Water Systems are critical infrastructure targets
- Many utilities provide both water and wastewater services: One Water
- Local governments, which often include water and wastewater systems, are common targets
- Attacks are increasing in frequency (+400% since 2020)
- Reported losses are increasing significantly
- Modified and remote operations due to COVID-19 introduce new vulnerabilities



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2021 Water Utility Resilience Forum

## Cyber Resilience: Exercising Leadership

#### **Facilitators**



**Sharon Peters** EMA, Inc.



**Nick Claudio** EMA, Inc.



**Andrew Hildick-Smith**WaterISAC



Matthew Gabrick
Boston Water &
Sewer Commission



**Ehinomen Nwani**Los Angeles Department of Water and Power



**Steve de Mik**Hampton Roads
Sanitation District

### Who is in the room today?









#### **Panel Stories**

## One Key Message

For Utility Leaders

Your Questions?

#### Adventures in AWIA – Part 1



TeamViewer access directly to the SCADA system



Bypass cable around the firewall



One login for all SCADA HMI's



Outdated (7+ years) firewall that was never updated

Who has experienced an attack?

Who has been involved in try to prevent an attack?

Who has been involved in recovering from an attack?

# What Should Utility Leaders Do?

- To support preparation/ prevention?
- In the moment of response?
- To meet expectations of recovery?

Your Questions?

#### Adventures in AWIA – Part 2



Password writing on a white board you could see from the street



Hidden WIFI router so staff could have wireless access to the internet – No firewall



"Segmented" Networks



Others?

How Can We Work Together as a Sector and Community?

- Do you work with others now?
- Who has been most helpful to you?
- Are you part of a regional network or sharing with other utilities now?

What do you think is coming next? How can we be ready?

#### Wrap Up

- What is one piece of advice you would share with everyone in this room today?
- What else?

#### **Table Discussions**