DIRECTOR AB 1234 REPORT

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Meeting Attended: Webinar: Is Your Water Supply Safe from Cyberattacks?

Date of Meeting: April 28, 2021

Location: Virtual

Board Meeting to Be Presented At: May 4, 2021

Points of Interest:

Host: Association of Water Agencies of Ventura County (AWA)

- Guest speakers:
 - · Drew Batten
 - Department of Homeland Security ~ Cybersecurity & Infrastructure Security Agency
 - · Marylu Smith
 - Federal Bureau of Investigation (FBI)
- Key points from Drew Batten's segment:
 - The Department of Homeland Security's Cybersecurity & Infrastructure Security Agency (CISA) monitors and assesses threats to sixteen different sectors
 - · Water infrastructure is one of those sectors
 - They assess where the risks are and how adversaries are likely to attack them
 - · Four areas they focus their work around
 - Federal network protection
 - · Comprehensive cyber-protection
 - They have a team ready to deploy to help with networks that have been attacked
 - Infrastructure resilience and field operations
 - They provide best practices, white papers, research, alerts about bad domains/IPs
 - They provide free tools for agencies to use
 - Is our agency aware of these tools and are we using them?
 - · Partnership development
 - Developing relationships with community partners is vital
 - It's important to them to have the perspective from those who operate utilities and understand the on-the-ground issues
 - They provide <u>free</u> technical assistance, tools, and exercises/training to agencies/utilities

- They have a team that will come to your agency for a couple of days and run exercises with them to help identify weaknesses
 - Can we request this?
- They also have a 3-4 day class to learn about defensive tools for highlevel industrial control systems
- They have a National Cyberincident Response Plan
 - There is a "watchboard" with representatives from various agencies that consult with each other and help distribute information about potential attacks and actual attacks
 - Is our agency connected to this information?
- Operational Technology vs Information Technology
 - There can be competing department priorities
 - Cybersecurity often isn't given attention and resources until there is a problem
 - Fancy tools don't necessarily mean better protection
 - You need three things
 - · People who know what they're doing
 - Tools to help do the work
 - Access to the data and understanding about how to use it
- · Remote access to control systems
 - Understand and implement best practices
- Be aware of publicly accessible information
 - Photos shared online and on social media can reveal information that should be protected
 - Job postings should not include information specific to IT systems software packages
- Key points from Marylu Smith's segment:
 - The FBI has a unit that covers critical infrastructure and looks at what happens during attacks from the victim's point of view
 - They assess how it was attacked, how to recover, and who the attacker was
 - · Water and Wastewater is one of the sectors they assess
 - Vital because everyone needs clean water to live, but also because of the intersection between water and energy sectors
 - Effects of cyberattacks
 - Possible water contamination or impact to flow of water to community
 - Attack on business operations
 - How this is done
 - · Malware that compromises systems
 - Ransomware
 - · Insider threats from people familiar with systems manipulating them
 - Examples of attacks
 - Unauthorized remote access to SCADA system in Florida due to outdated software
 - Unauthorized remote access to chemical levels in a California system by former employee whose credential were not removed in a timely fashion

- Human Resources departments needs to prioritize disabling credentials for employees who don't leave amicably
- SCADA systems in Nevada and North Carolina were hacked and held ransom
- Mitigation
 - Multi-factor authentication
 - · Strong passwords to protect RDP
 - Up-to-date anti-virus, spam filter and firewalls
 - · Identify and suspend access of users exhibiting unusual activity
 - Audit
 - Network configurations and isolate computer systems that can't be updated
 - Networks for systems using RDP, closing unused ports, applying two-factor authentication when possible, and logging RDP login attempts
 - · Train users to identify and report attempts at social engineering
 - Keep software updated
 - · Are we implementing all these mitigation strategies?
- FBI involvement
 - If you think you're experiencing an attack, contact:
 - · Los Angeles Field Office
 - Ventura Resident Agency
 - InfraGard
 - · Partnership between FBI and agencies
 - · Internet Crime Complaint Center
 - IC3.gov
 - Water-ISAC
 - · waterisac.org
 - 60% of utilities belong to this group
 - · Are we part of this?
 - They give information to support and protect utilities