

WaterISAC and SANS Institute

DECEMBER 12, 2024

Prepared for:

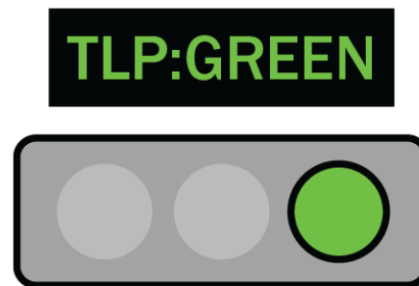
**Strengthen Water System ICS Cybersecurity, an
AMWA-SANS Institute Webinar**



Disclosure

TLP:GREEN = Limited disclosure, recipients can spread this within their community.

Recipients may share TLP:GREEN information with peers and partner organizations within their community, but not via publicly accessible channels. TLP:GREEN information may not be shared outside of the community.



On Tap

About WaterISAC

SANS – WaterISAC Partnership

**WaterISAC's 12 Cybersecurity
Fundamentals for Water and Wastewater
Utilities**



What is an ISAC?

ISAC – Information **S**haring and **A**nalysis **C**enter

- 1998 – Presidential Decision Directive (PDD-63)
- 2013 – Executive Order (EO 13636)
- Critical Infrastructure sectors

ISACs share information about threats, vulnerabilities, and events/incidents to help **protect** the critical infrastructure of the United States.



About WaterISAC | Background

- Established in 2002 at the urging of the White House, FBI, and EPA
- 600+ Members: utilities, consulting firms, government agencies
- Board Members: utility managers and a state primacy agency administrator



Advancing the security of the sector

WHO WE ARE

The Water Information Sharing and Analysis Center (WaterISAC) is the only all-hazards security information source for the water and wastewater sector. We were formed over 20 years ago by the sector's leading national associations at the urging of the White House, FBI, and EPA.

OUR MEMBERS

We serve over 600 utilities and member companies with 3,900+ active water and wastewater sector personnel. Our utility members provide water and wastewater services to Americans across the nation. We also serve utilities in Canada, Australia, and New Zealand.

Category	Color
Utilities	Dark Blue
State/Local Government	Medium Blue
Federal Government	Light Blue
Consultants	Teal
Associations	Lightest Blue

About WaterISAC | Mission

Protect water and wastewater utilities by providing information and tools for preventing, preparing for, responding to, and recovering from all hazards.

- Cybersecurity
- Physical Security
- Natural Disasters



Information Gathering, Curation, Analysis & Dissemination



EDUCATION

Over **12,000 items** available 24/7 in our online Resource Center Library.



1,870 attendees at our monthly Cyber Threat Web Briefings.

Represented and spoke at **29 engagements** throughout the year.



OUTREACH

Distributed **171 mailings** and advisories throughout the year, including 100+ Security & Resilience Updates.



Racked up close to **200,000 impressions and views** across social media channels and website ads.

Make sure to follow us @waterisac!



SANS Institute – WaterISAC (first) Platinum Champion!

WaterISAC Champions are subject-matter experts in physical and cyber security, resilience, and emergency preparedness. Each firm offers its unique support to our members and the sector at-large. Champions are considered leaders in their spaces and one-of-a-kind solution providers.

Check out each of our Champions below and the resources they provide the sector.

[Become a WaterISAC Champion](#)

CHAMPIONS

The logo for SANS Institute, featuring the word "SANS" in a large, blue, serif font.The logo for WaterISAC, featuring a stylized blue and red graphic to the left of the words "WATER" and "ISAC" stacked vertically in a bold, sans-serif font.

White Paper

Protecting Critical Water Systems with the Five ICS Cybersecurity Critical Controls

Written by **Dean Parsons**

March 2024

Whitepaper SANS Video Training Series

Module 1: ICS-Specific Incident Response Plan

Module 2: ICS Defensible Control System Network Architecture

Module 3: ICS Network Visibility & Monitoring

Module 4: ICS Secure Remote Access

Module 5: Risk-Based ICS Vulnerability Management

12 Cybersecurity Fundamentals for Water and Wastewater Utilities

Download the guide: www.waterisac.org/fundamentals

2024



**12 Cybersecurity Fundamentals
for Water and Wastewater Utilities**

*Recommended Practices to Reduce Exploitable
Weaknesses and Consequences of Attacks*

1. Incident Response Planning
2. Minimize Control System Exposure
3. Cybersecurity Culture
4. Threat Detection & Monitoring
5. Understanding Assets
6. Enforce Access Controls
7. Physical Access Protection
8. Cyber-Physical Safety Systems
9. Vulnerability Management
10. Governance
11. Third Party Risks
12. Information Sharing



Upcoming WaterISAC Webinars

Water Sector Cyber Resilience Briefing

- Wednesday, December 18, 2024, 2:00 – 3:00 PM ET

WaterISAC Physical Threat Briefing

- Wednesday, January 15 or 22, 2025, 2:00 – 3:00 PM ET

WaterISAC Natural Disaster Threat Briefing

- Wednesday, February 19, 2025, 2:00 – 3:00 PM ET

Register for all events via WaterISAC's Events webpage:

<https://www.waterisac.org/events>



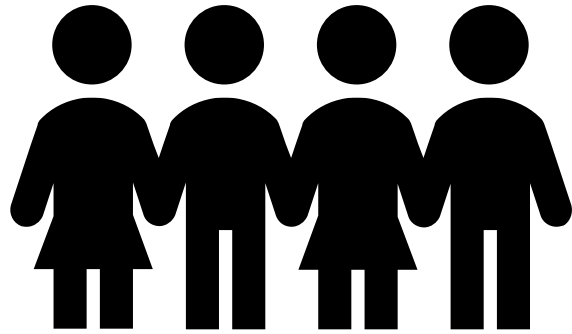
Confidential Incident Reporting

Please report incidents and suspicious activity to WaterISAC

- By phone | 1-866-H2O-ISAC**
- On the website | <https://www.waterisac.org/report-incident>**
- Via email | analyst@waterisac.org**

www.waterisac.org





Be a Good Neighbor

Invite a friend to your next cybersecurity event

Thank You!

Tom Dobbins
Executive Director
dobbins@waterisac.org

Jennifer Lyn Walker
Director of Infrastructure Cyber Defense
walker@waterisac.org

Website | www.waterisac.org

Incident Reporting Form | <https://www.waterisac.org/report-incident>

24 Hour Line | 866-H2O-ISAC

Email | analyst@waterisac.org

