OTCO Annual Water Workshop

> March 5, 2024 Andrew Barienbrock



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Carrie Winger	Environmental Specialist 3	Developing Inspector Training, District Oversight, Reclassifications, Technical Assistance, Emergency Response and Sanitary Survey Auditing
Rebecca Ilic	Environmental Specialist 2	Operator of Record notifications, Technical Assistance, Sanitary Survey Auditing
Jessica Frey	Environmental Specialist 2	Security, Contingency Planning, Emergency Response Planning, Operator Notifications and Enforcement
Kevin Swiadek	Environmental Supervisor	<b>Operator Certification</b>
Susan Riggins	Environmental Specialist 2	Contact Hours, Advisory Council, eBusiness and application processing
Colt Bush	Environmental Specialist 2	Contact Hours, eBusiness, ACHTP Program, and application processing

Operations, Resiliency, and Certification Section



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# Security

- Heightened awareness of water and wastewater plant security
- Increased attacks on America's infrastructure
  - U.S. EPA and the Cybersecurity and Infrastructure Security Agency (CISA) are warning of high risk due to Russian tensions
- Resources:
  - Implementing a cybersecurity program
  - Updates on vulnerabilities and reporting attacks CISA
  - What to do if you are attacked Department of Justice





#### Cybersecurity Assessment and Technical Assistance

Cybersecurity is a broad term that refers to the security of computer network infrastructure and data. A cyber attack is an attempt to undermine or compromise the function of a computer network or system, or an attempt to track the online movements of individuals without their permission.

#### What is the assessment and technical assistance?

With the U.S. Environmental Protection Agency, Horsley Witten Group (HWG) is offering free, confidential, cybersecurity assessments and technical assistance to interested water and wastewater utilities. The assessment consists of a questionnaire completed with HWG staff, and the technical assistance consists of developing a cyber action plan based on the results of your utility's assessment focused on best practices to prepare for, respond to, and recover from a cyber incident. Adoption of these practices can reduce the likelihood that a cyber attack will be successful and allow the utility to recover from any cyber attacks faster and at a lower cost. Due to the COVID-19 pandemic, HWG is offering this assessment and technical assistance virtually.

#### What are the expected outcomes?

All individual utility information gathered during the assessment will be protected and remain confidential. Trends in the anonymized, aggregated data will be shared with other utilities and agencies so that lessons learned from the assessments may benefit all.

Participating utilities can expect to receive a straightforward overview of their vulnerabilities and suggested best practices to reduce risks to their business enterprise, SCADA, and communications systems. Additionally, the utility will develop their cyber action plan with HWG and work to implement any recommended best practices.

#### What does the utility need to prepare before the assessment and technical assistance?

The assessment will require input from management, IT, operations/control staff and engineers as appropriate. The utility will also need to compile and provide any existing system documentation/diagrams, policies, and procedures.

#### Is there any follow-up?

Yes, HWG will contact the utility on two separate occasions after the development of the cyber action plan to gauge progress and see if additional assistance is required.

#### How does my utility participate?

To date, we have worked with over 100 utilities across the United States providing free cybersecurity technical assistance. EPA plans to expand the program as resources allow. We are continuing to register interested utilities at the link below. If you would like more information about the program, contact Gemma Kite at *gkite@horsleywitten.com*, or (508) 833-6600.

To register your utility, please visit: <u>www.horsleywitten.com/cybersecurityutilities</u>

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U.S. EPA offers free, confidential, Cybersecurity Assessments and Technical Assistance for interested Water and Wastewater Utilities

#### **To register your utility, please visit:** <u>EPA's Water Sector Cybersecurity Evaluation Program | U.S.</u> <u>EPA</u>



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# Cybersecurity

#### Unitronics PLCs Hack –

- Iranian actors targeting components made in Israel
- Make sure to change default passwords
- Change default communications port



This photo provided by the Municipal Water Authority of <mark>Aliquippa</mark> shows the screen of a Unitronics device that was hacked in Aliquippa, Pa., on Nov. 25. *Municipal Water Authority of Aliquippa via AP* 



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## **Cyber Security Resources**

- Resources
  - Ohio EPA Emergency and Security Preparedness
  - <u>U.S. EPA Cybersecurity Best Practices for the Water Sector</u>
  - Response partnerships
    - CISA <u>Shields Up | CISA</u>
    - Free cyber scanning <a href="https://www.cisa.gov/cyber-hygiene-services">https://www.cisa.gov/cyber-hygiene-services</a>
    - Water ISAC (water Infrastructure security network)
      - <u>WaterISAC</u>

– Dragos – Free Community Defense Program Registration



## **Cyber Security Take Aways**

- Change default passwords
- Segment networks
- Update software with patches



# **Supply Chain Issues**

- U.S. EPA website on Supply Chain Resilience <u>Water</u> and Wastewater Sector Supply Chain Resilience | U.S. <u>EPA</u>
  - Identify alternate suppliers
  - Stay up-to-date on current and potential issues
  - Notify U.S. EPA



## **Contingency Plan Rules**

- Changes were effective April 15, 2022
- Minor clarification language (i.e., hard copy vs. electronic copy)
- Added a few required circumstances to address
  - Contamination of treated water
  - Malevolent acts (cyber, vandalism, etc.)



#### **Paper and Pencil Exams**





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Last paper and pencil examination was held on May 3, 2023

#### **Future Exams**

• Exams are still being given by our third-party exam provider Water Professionals International (WPI)(formerly ABC)

 Preparation is the same - use the Need-to-Know Criteria and References Materials

• Ohio EPA developing course on exam preparation



#### **Preparing for Exams**

- How to prepare
  - Need to know criteria
  - References
- What <u>not</u> to do
  - Do not use question sets as your only study method

#### WPI/ABC Need To Know Criteria

Please note that the title on WPI's Need to Know Criteria may be a different exam level than the Ohio EPA certification you are seeking. When you are applying through WPI's provider, once you select Ohio EPA certification, you will select the Ohio EPA certificate level you are seeking and the appropriate WPI test is selected.

- <u>Class 1 Water Distribution</u>
- <u>Class 2 Water Distribution</u>
- <u>Class A Water Supply</u> (see Drinking Water Class A)
- <u>Class 1 Water Supply</u>
- <u>Class 2 Water Supply</u>
- <u>Class 3 Water Supply</u>
- <u>Class 1 Wastewater Collection</u>
- <u>Class 2 Wastewater Collection</u>
- Class A Wastewater Treatment
- <u>Class 1 Wastewater Treatment</u>
- <u>Class 2 Wastewater Treatment</u>
- <u>Class 3 Wastewater Treatment</u>

#### WPI/ABC Reference Material

- <u>Water Supply</u>
- <u>Water Distribution</u>
- <u>Wastewater Treatment</u>
- <u>Wastewater Collection</u>



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## **WPI Exams**

- WPI is in the process of updating the exams:
  - Water and wastewater surveys were sent
- Developing job analyses
- Developing questions
- Building exam data banks



### 2023 Renewals

- Renewals were due November 30, 2023
- Certificates expired on December 31, 2023
- Anyone with an expired certificate has until June 30, 2024 to renew prior to being required to retest.



# **Minimum Staffing Reporting**

- Use the reporting app
- You were required to start using the tool for the July 2021 minimum staffing report
- DDAGW is sending NOVs to operators of record who do not submit



#### Website Update



Stay Compliant

Make a Difference

Monitor Pollution

Get Funding

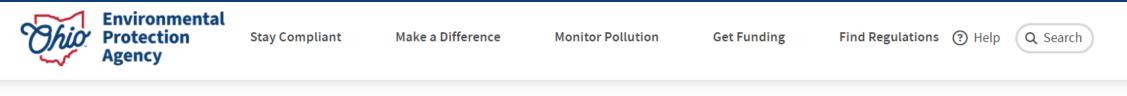
Find Regulations (?) Help

Q Search

# Protecting public health and the environment Learn about what we do



#### Website Update



Ohio EPA / Divisions & Offices / Drinking & Ground Waters / Certified Operators

Drinking & Ground	Certified Operators		
Waters	Certified water and wastewater operators are essential for the protection of public health and the environment. Ohio EPA's Operator Certification program has certified more than 12,000 operators, ensuring public water and wastewater systems are operated by properly trained and qualified individuals.		
Welcome	Learn how to become a certified water or wastewater operator.		
Announcements	To submit an Ohio EPA Paper and Pencil exam, renewal, third party certification or reciprocity application(s) please visit the <u>Ohio EPA eBusiness Center webpage</u> . For instructions to utilize the eBusiness Center please view the instructions below under the Operator tab.		
About DDAGW	REQUIRED TRAINING: Starting Aug. 15, 2018, all applicants will need to review the training document below prior to submitting the Ohio EPA exam, third-party exam certification, reciprocity and renewal applications and Operator-in-Training forms. This document will be updated periodically to reflect the current rules, regulations and policies.		
Programs	RENEWAL GRACE PERIOD: The operator renewal application grace period has been reduced to 6 months. A complete renewal application must be received by June 30 of the year		
Certified Operators	following your expiration date. If a complete renewal application is not received by June 30 of the year following you expiration date, you must re-take the examination to be certified.		
Guides & Manuals	Ohio EPA Professional Operator Certification Training - Updated Jan. 5, 2022		
Engineering and Plan			
Approval	OP CERT HOTLINE		
Public Water Systems	<u>866-411-6728</u>		
	<u>opcert@epa.ohio.gov</u>		



Advisory Council Provides guidance and input to Ohio's water and wastewater operator certification program.



Announcements



**Career Information** 



Contract Operators

Lists or forms you may need as a contract operator, an owner of a contract operating company or a system in need of an operator.



Exam information Third Party Exam scheduling, reference material and Need-to-Know criteria, Class IV information, and Class A



**Forms and Resources** 



Operator Certification Enforcement Actions Enforcement actions have been taken as a result of violations of the operator certification rules.

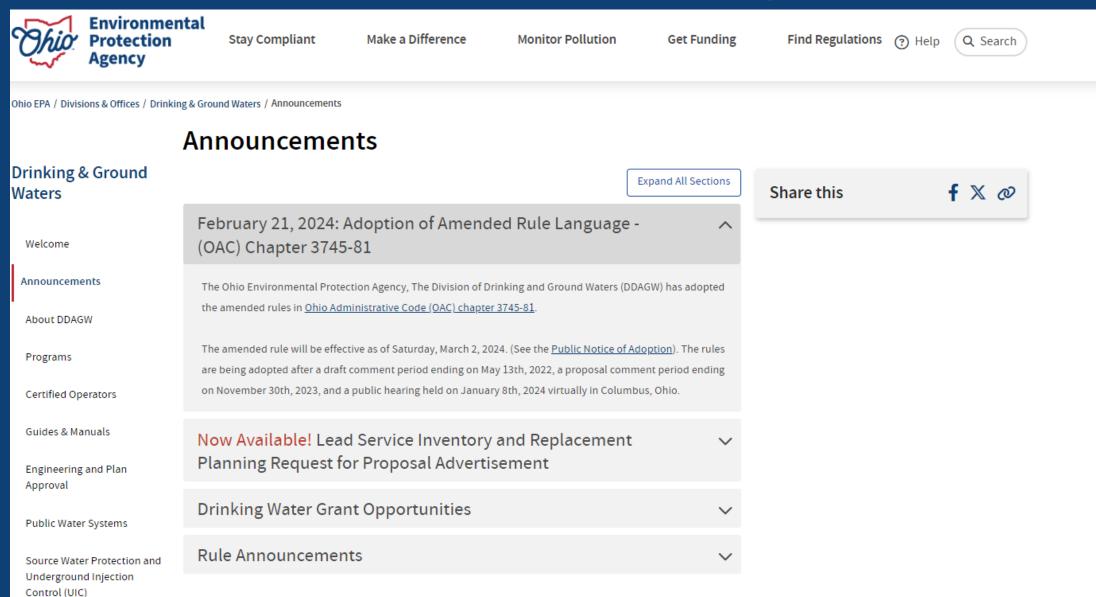


Operator Services, lists, or forms you may need as an operator, or to become an operator.

## Website Update



#### **Announcements Page**



## **Required Operator Training**



Ohio EPA / Divisions & Offices / Drinking & Ground Waters / Certified Operators

Drinking & Ground	Certified Operators		
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## **Required Operator Training**

Ohio Environmental Protection Agency Operator Rules & Requirements

#### **Required Training**

This training is required prior to signing any operator certification application.



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#### Items of Note in the Required Training

- Reporting minimum staffing times
- Logbook information
- Must still meet minimum staffing time in weeks with holidays
- Contract operator rule
- As rules change within the program, highlights will be added



## **Website Information**

#### **Career Information tab**

- Updated job boards
- Improved veteran information and outreach
- Provide links to apprenticeship, associate degrees, and certificate programs



# **Operator Certification Rules Review**

- Rules are out for interested party review
- Clarifications
- Removal of old language
- Allowances for holidays
- Allowances for off-site meetings
- Allowing OIT for Class III
- Proposing facility-specific certification Class III and IV facilities
- Reducing the operating experience requirement for Class II, III and IV certificates
- Reciprocity



# Questions, Comments, or Concerns?





# Thank Vou

#### **Andy Barienbrock**

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http://epa.ohio.gov/ddagw

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