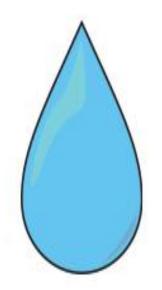
2022 Water Distribution Workshop

November 9, 2022 Andrew Barienbrock





THANKFUL FOR PROFESSIONAL WATER AND WASTEWATER OPERATORS



THE UNSUNG HEROES PROTECTING THE ENVIRONMENT AND KEEPING YOUR WATER CLEAN AND SAFE 24/7!

#NOTALLHEROESWEARCAPES



Operations, Resiliency, and Certification Section

Andrew Barienbrock	Environmental Manager	
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
Spencer Lydon	Environmental Specialist 2	Security, Contingency Planning, Emergency Response Planning, Operator Notifications and Enforcement
Kevin Swiadek	Environmental Supervisor	Operator Certification
Lydia Maschmeier	Environmental Specialist 2	Contact Hours, Advisory Council, eBusiness and application processing
Colt Bush	Environmental Specialist 2	Contact Hours, eBusiness, ACHTP Program, and application processing
Vacant	Administrative Professional 2	Operator Certification, Exams
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Ohio Environmental Protection Agency

- Effective November 1, 2018
- Specifies responses any time distribution pressure goes below 20 PSI
- Transient (TNC) and Non transient non community (NTNC) serving <1000 shall provide bottled water or the equivalent



 All community and non transient non community systems serving 1000 or greater must follow the event response and notification provisions



- During an event, systems must monitor pressure upstream and downstream of water line repairs
- Pressure monitored by in-line pressure monitors, hydrant pressure recorders, elevated storage tanks, towers or other Director approved methods



 <u>TYPE 1 Event</u> – controlled pipe repair, positive pressure maintained and no sign of contamination intrusion.



- **TYPE 1 Reporting Requirements**
 - No notification to Ohio EPA is required provided the event response items are followed
 - An after action report must be maintained by the facility



 <u>Type 2 Event</u> – controlled pipe repair, positive pressure maintained until a controlled shutdown of the affected area can be completed and no signs of contamination. Water line replacement does not exceed one full section of pipe.



- **Type 2 Event Response** (Continued)
 - Flush lines in accordance with C651
 - Verify disinfectant presence
 - Document activities
 - No boil advisory
 - No coliform samples
 - Move to Type 3 if process not followed



- TYPE 2 Reporting Requirements
 - No notification to Ohio EPA is required provided the event response items are followed
 - An after action report should be maintained by the facility



 <u>Type 3 Event</u> – loss of pressure at the repair site, localized depressurization near repair, an uncontrolled shut down or signs of possible contamination intrusion



 <u>Type 4 Event</u> – Catastrophic failure, widespread depressurization or actual contamination intrusion



Reporting

- Contact your District Office during normal business hours
- After hours contact Ohio EPA's 24 hour emergency hotline. 1-800-282-9378. Indicate this is a water plant emergency
- Online after action reporting tool. Required to be used for Type 3 and 4. You can use it for Type 1 and 2 and either save or print the report.



Reporting



Press the button and it will take you to the disruption of service web page. Press it a second time and you will go to the reporting tool



- Type 3 Reporting Requirements
 - If the disruption affects 10 percent of a systems customers or 100 service connections whichever is least, notify the appropriate District office or Ohio EPA hotline (after hours)
 - Must speak with a person at Ohio EPA
 - Document activities in writing. Submit after action report to Ohio EPA w/in 48 hrs



Security

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



Contingency Plan Rules

- Changes were effective 4-15-2022
- Minor clarification language (i.e. hard copy vs. electronic copy)
- Added a few circumstances to address
 - Contamination of treated water
 - Malevolent acts (Cyber, vandalism, etc.)





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 ths 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 Kita a gktte@horsleywitten.com, or (508) 833-6600.

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



Horsley Witten Group Sustainate Environmenter Solutions hors synthesis U.S. EPA offers free, confidential, Cybersecurity Assessments and Technical Assistance for interested Water and Wastewater Utilities

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



WATER UTILITY PREPAREDNESS

Please follow the steps outlined below to protect your organization from ransomware attacks.

If you suspect that you are a victim of a ransomware attack, please contact CISA (<u>central@cisa.dhs.gov</u>) or local law enforcement.

- 1. Backup your data, system images, and configurations, regularly test them, and keep the backups offline
- 2. Update and patch systems promptly
- 3. Test your incident response plan
- 4. Check Your Security Team's Work
- 5. Segment your networks



Cyber Security Resources

- Resources
 - <u>Ohio EPA Emergency and Security Preparedness</u>
 - <u>US EPA Cybersecurity Best Practices for the Water</u>
 <u>Sector</u>
 - Response partnerships
 - CISA
 - Water ISAC (water Infrastructure security network)



Supply Chain Issues

- US EPA website
- Water and Wastewater Sector Supply Chain <u>Resilience | US EPA</u>
 - Identify alternate suppliers
 - See current issues
 - Notify US EPA



Paper and Pencil Exams



• Holding 2 more paper and pencil exams

Exam Date	Application Deadline	
December 1, 2022	Closed	
May 3, 2023	February 2, 2023	
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Ohio Environmental Protection Agency

Preparing for Exams

- How to prepare
 - Need to Know Criteria
 - References
- What not to do
 - Do not use question sets as your only study method



2022 Renewals

- The renewal button is active. Click the blue renew button to the right of your certificate
- Renewals are due November 30, 2022
- Certificates will expire on December 31, 2022
- 1,571 approved so far.



Minimum Staffing Reporting

- The reporting app is available.
- You were required to start using the tool for the July 2021 minimum staffing report.
- NOVs are now being sent to drinking water facilities for not reporting.



Eanguage Translation

An Official Site of Ohio.gov

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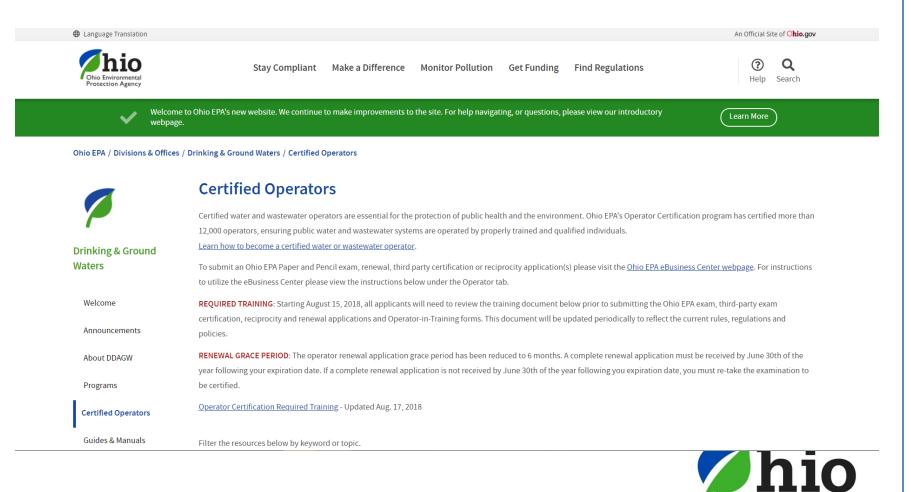


Stay Compliant Make a Difference Monitor Pollution Get Funding Find Regulations

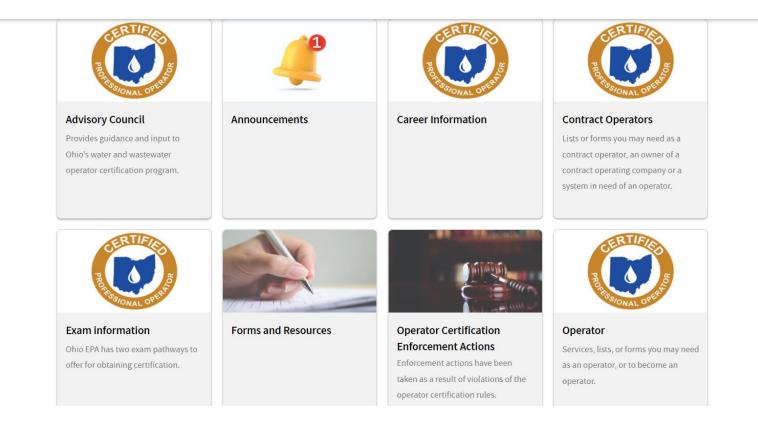
Welcome to the new Ohio Environmental Protection Agency website

Learn more about what we do 🤿





Ohio Environmental Protection Agency





Announcements page

C epa.ohio.gov/di	ivisions-and-offices/drin	nking-and-ground-waters/c	ertified-operators/announc	ements		12 \$		
An official State of Ohio site. Here	<u>e's how you know</u> 🗸					🕀 Langu	age Trans	lation
Chio Environmental Protection Agency	Stay Compliant	Make a Difference	Monitor Pollution	Get Funding	Find Regulations	(?) Help	Q Search	1
Ohio EPA / Divisions & O	_		Operators / Announceme	ents				
	Announc	ements						
	Ohio EPA has deve	eloped a new minimum s	staffing reporting tool. Th	e tool is available				
	through the ebusi	iness center and can be ι	ised in lieu of reporting m	ninimum staffing on	Share this	t	y (S
	your eDMR or eDV	VR. Directions for using t	his tool can be found belo	SM:				
Drinking & Ground	<u>Minimum Staffing</u>	Reporting Tool						
Waters					For more in	formati	ion	
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Required Operator Training

	Certified Operators					
Drinking & Ground 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. <u>Learn how to become a certified water or wastewater operator</u> .					
	To submit an Ohio EPA Paper and Pencil exam, renewal, third party certification or reciprocity application(s) please visit the Ohio EPA eBusiness Center webpage. For instructions to utilize the eBusiness Center please view the instructions below under the Operator					
Welcome	tab.					
Announcements	REQUIRED TRAINING: Starting August 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					
About DDAGW	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 following your expiration date. If a complete renewal application is not received by June 30 of the					
Certified Operators	year following you expiration date, you must re-take the examination to be certified. <u>Operator Certification Required Training</u> - Updated Jan. 5, 2022					
Guides & Manuals						
Engineering and Plan	OP CERT HOTLINE (866) 411-6728					
Approval						

Ohio Environmental Protection Agency

Required Operator Training

Ohio Environmental Protection Agency Operator Rules & Requirements

Required Training

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



Items of Note in the Required Training

- Reporting minimum staffing times
- Log book information
- Must still meet minimum staffing time in weeks with holidays
- Contract operator rule



Career Information tab

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



Operator Certification Rule

- No major changes planned
- Clarifications
- Removal of old language
- Early Stakeholder outreach
 - Considering requiring completion of some type of basic training course work prior to taking the Class 1 or 2 certificates



Questions?

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Protection Agency