Operator Training Committee of Ohio Distribution Workshop Disruption of Service Rule/Operator Certification Update

Andrew Barienbrock

November 13, 2018

Ohio Environmental Protection Agency

Disruption of Service Rule

- 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

Ohio Environmental Protection Agency

Disruption of Service Rule

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

Disruption of Service Rule

- 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

Disruption of Service Rule

- **TYPE 1 Event – controlled pipe repair, positive pressure maintained and no sign of contamination intrusion.**

Ohio Environmental Protection Agency

Disruption of Service Rule

- **TYPE 1 Event Response**
  - Excavate below the repair
  - Maintain pit water level below the repair
  - Disinfect in accordance with AWWA C651
  - Repair under positive pressure
  - After repair verify disinfectant presence
  - Document steps taken
  - No boil advisory
  - No Coliform Sampling necessary
  - If all steps not followed the event is elevated to Type 2

Disruption of Service Rule

- **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

Disruption of Service Rule

- **<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.**

Disruption of Service Rule

- **Type 2 Event Response**
  - Excavate to below the repair
  - Maintain pit water level below the repair
  - Affected critical customers notified
  - Perform controlled shut down
  - Repair the water line
  - Disinfect affected area in accordance with C651

Disruption of Service Rule

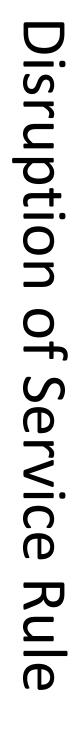- **Type 2 Event Response** (Continued)
  - Flush lines in accordance with C651
  - Verify disinfectant presence
  - Document activities
  - No boil advisory
  - No coliform samples
  - Move to Type 3 if process not followed

Ohio Environmental
Protection Agency

Disruption of Service Rule

- **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

Ohio Environmental Protection Agency

Disruption of Service Rule

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

Ohio Environmental Protection Agency

Disruption of Service Rule

- **Type 3 Event Response**
  - Activate the notification procedures in the system's contingency plan
  - Document possible contamination
  - Issue precautionary boil advisory
  - Disinfect, repair and flush in accordance with C651
  - Test for chlorine residual and comply with minimum requirement
  - Move to Type 4 if event becomes a widespread disruption

Ohio Environmental Protection Agency

Disruption of Service Rule

- **Type 3 Event Response** (Continued)
  - After repairs, repressurization and chlorine verification, collect special purpose total coliform samples
    - If samples negative for E. Coli or fecal coliform the boil advisory may be lifted
    - If samples positive for E. Coli or fecal coliform the advisory stays in effect and need consecutive samples 24 hrs apart to lift advisory

Ohio Environmental Protection Agency

Disruption of Service Rule

- **<u>Type 3 Reporting Requirements</u>**
  – 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

Ohio Environmental Protection Agency

Disruption of Service Rule

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

Ohio Environmental Protection Agency

Disruption of Service Rule

- **Type 4 Event Response**
  - Activate notification process in contingency plan
  - Document contamination
  - Consult with Ohio EPA
  - Issue boil advisory or "Do Not Drink" advisory
  - Disinfect, repair and flush in accordance with C651
  - Test for chlorine residual and comply with minimum requirement

Disruption of Service Rule

- **Type 4 Event Response** (Continued)
  - After repairs, repressurization and chlorine verification, collect special purpose total coliform samples
    - If samples negative for E. Coli or fecal coliform the boil advisory may be lifted
    - If samples positive for E. Coli or fecal coliform the advisory stays in effect and need consecutive samples 24 hrs apart to lift advisory

Disruption of Service Rule

- **Type 4 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

Ohio Environmental Protection Agency

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.

Ohio Environmental
Protection Agency

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

Public Water System Service Disruption

Ohio Environmental Protection Agency

New Operator Certification Rules

- Effective August 15, 2018

- Congratulations you are all now considered professional operators

- New definition of operating experience beginning on August 15, 2019

- Minimum Staffing requirements for distribution systems.

- Reporting of minimum staffing on eDWR

Ohio Environmental
Protection Agency

New Operator Certification Rules

- Requirement for electronic submission of renewal applications beginning with certificates that expire December 31, 2018

- Moving official due date for renewals to November 30 of the expiration year.

- Reducing grace period from 1 year to 6 months.

Ohio Environmental Protection Agency

New Operator Certification Rules

- Certify that Ohio EPA Certification Course has been reviewed for all applications
- 3745-7-21 (Contract Operator Rule)
  - Require Director approval for all contract operators and contract operation companies
  - Spells out requirements for contract operations companies
  - Provisions for preventing companies or operators from acting as contract operators

Ohio Environmental
Protection Agency

Andy Barienbrock

Phone: 614-728-1216

Email:

andrew.barienbrock@epa.ohio.gov

Ohio Environmental
Protection Agency