Consideration of a Cross-Connection Control Program Work Plan to Comply with the New Regulations in the Cross-Connection Control Policy Handbook

June 17, 2025

"Note: This PowerPoint presentation is intended solely as a visual aid to an oral staff presentation of an agenda report topic. In the event of any differences between the presentation and the agenda report, the information in the agenda report prevails."

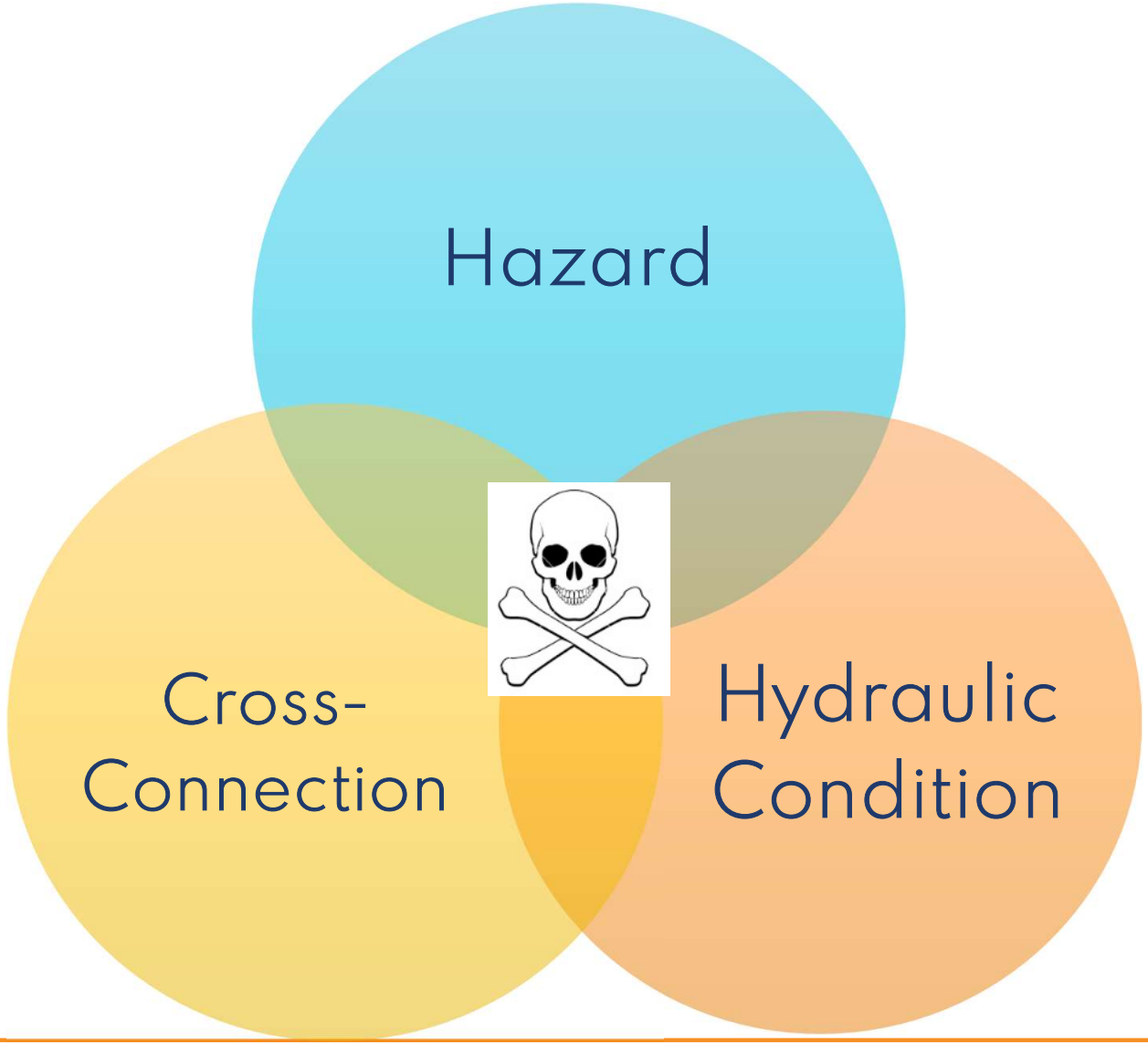
Cross-Connection Control Plan

- A comprehensive plan detailing how the City will comply with new regulations contained in the Cross-Connection Control Policy Handbook (CCCPH)
  - The CCCPH has the full force and affect of law
  - Effective date of July 1, 2024
- Contains 10 major elements
- Must be submitted to the State Waterboard for approval by July 1, 2025

What is a Cross-Connection?

A cross-connection is an interconnection between a potable water supply and a non-potable source via any actual or potential connection or structural arrangement between a Public Water System (PWS) and any source or distribution system containing liquid, gas, or other substances not from an approved water supply.

How Does Backflow Occur



Cross-Connections Are Common

- Many commercial products aren't listed for potable-water connections
- Plumbing installations and repairs may go uninspected for code compliance
- EPA research found a high number of service connections with health-hazard cross-connections
- Examples

CCC Plan Elements

1. Operating Rules or Ordinance
2. Hazard Assessments
3. Backflow Prevention
4. Cross-Connection Control Program Coordinator
5. Certified Backflow Prevention Assembly Testers and Cross-Connection Control Specialists
6. Backflow Prevention Assembly Testing
7. Recordkeeping
8. Backflow Incident Response, Reporting and Notification
9. Public Outreach and Education
10. Local Entity Coordination

1. Operating Rules or Ordinance

- Municipal Code Chapter 7.46 has been adopted
- Established City authority to implement and enforce the CCC program

2. Hazard Assessments

- Evaluate every service connection and assign a risk class
- Assessment types: initial, periodic, triggered
- Risk classes:
  - None (no backflow risk)
  - Low (aesthetic impact only)
  - High (health risk)
- City facilities: 24 unprotected high-risk services

3. Backflow Prevention

- **Low hazard services:** Require at least a Double Check Valve Assembly.
- **High hazard services**: Require at least a Reduced Pressure Principle Assembly.
- **Special cases** (e.g., sewage connections):
- May need Physical Separation (Air Gap).
- **Installation Responsibility**: Customer's responsibility.
- **Current Status**: 20 of 21 required assemblies installed at City facilities.

4. Cross-Connection Control Program Coordinator

- Responsible for tracking, reporting and general administration of the CCC program
- Cross-Connection Control Specialist certification is required for public water systems greater than 3000 service connections, out of 13,258

5. Certified Testers and Specialists

- Certification through third party organizations
  - American Backflow Prevention Association
  - CA-NV Section, American Water Works Association
  - American Society of Sanitary Engineers
- Rigorous program to ensure Tester and Specialists possess the expertise to protect the public water supply
- Renewal is only industry certification that requires re-examination

6. Backflow Prevention Assembly Testing

- Tested upon initial installation
- Tested after any repair or relocation
- Tested at least once a year
- Tested using a third-party, certified tester for all tests

7. Recordkeeping

- Requires maintenance of legally defensible documentation
  - Hazard assessments
  - Assembly test reports
- Records retention for 3 years, or the last record for the service connection
- Electronic database
- Photos
- Site plans

CROSS-CONNECTION HAZARD ASSESSMENT REPORT

DATE:	SITE ADDRESS:		ASSESSOR NAME:	CCCS CERT #:
OWNER:		OWNER PHONE:	ASSESSOR EMAIL:	
OWNER EMAIL:			ASSESSOR PHONE:	ASSESSOR AGENCY/COMPANY
BUILDING USE:			SITE HAZARD LEVEL:	PIPING COMPLEXITY/ACCCESSIBILITY:
SITE ACCESSIBILITY:		AUX WATER ONSITE? IF YES, SPECIFY:		DISTRIBUTION SYSTEM CONDITIONS:

HAZARD SERVICE, EQUIP, ETC.	EXIST. PROTECTION TYPE AND SIZE	SERIAL #:	DATE OF LAST TEST	DEGREE OF HAZARD HIGH, LOW, NONE	EXIST. PROTECTION ADEQUATE?	PROPOSED UPGRADE TYPE AND SIZE

HAZARDOUS MATERIALS ONSITE? IF YES, SPECIFY:	HAZARD ASSESSMENT REPORT SUMMARY:	SITE SUPERVISOR/ATTENDEE NAME:
DATE OF PREVIOUS BACKFLOW EVENTS, IF ANY:		SITE SUPERVISOR/ATTENDEE PHONE:

NOTE: This form is intended to assist the Cross-Connection Control Specialist (Assessor) complete a hazard assessment to address potential cross-connections, as mandated by the State Water Board and CCR Title 17. It is the responsibility of building owner/tenant to inform Assessor of all water use on premises to permit inspection for cross-connections and issuance of corrective action. Failure to comply with corrective action may result in discontinuation of water/sewer service.	ASSESSOR SIGNATURE:	DATE OF ASSESSMENT:

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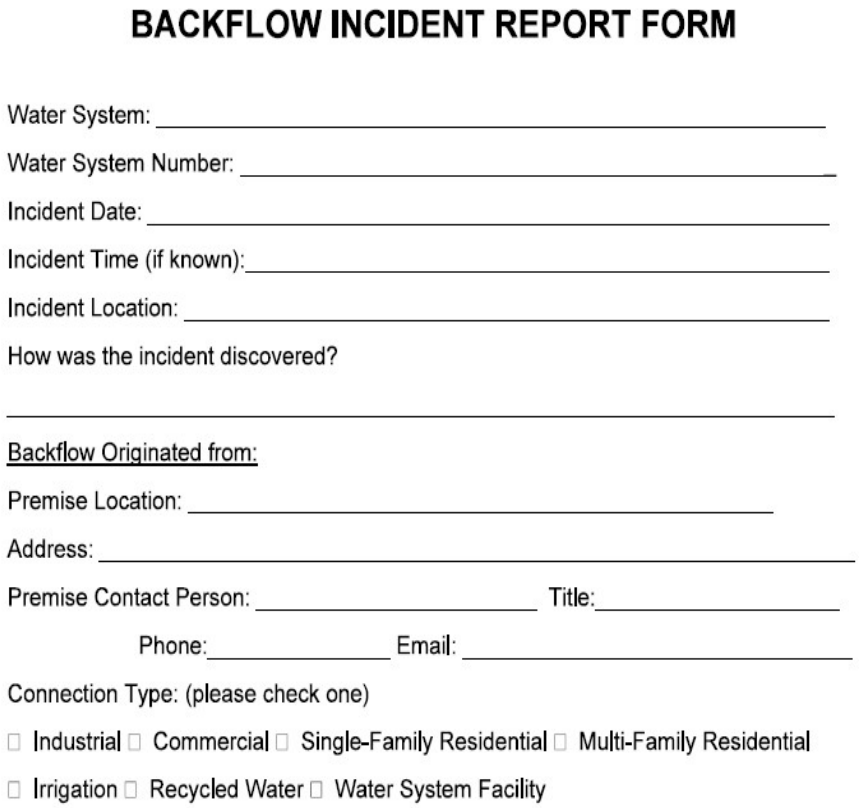
8. Backflow Incident Response, Reporting and Notification

- Ensures timely and effective response to a backflow incident
- Standardizes reporting that captures all relevant information required for the proper response
- Requires timely notification to regulatory staff
- Establishes procedures for any required customer notification



BACKFLOW INCIDENT REPORT FORM

Water System: _____

Water System Number: _____

Incident Date: _____

Incident Time (if known): _____

Incident Location: _____

How was the incident discovered?

_____

Backflow Originated from:

Premise Location: _____

Address: _____

Premise Contact Person: _____ Title: _____

Phone: _____ Email: _____

Connection Type: (please check one)

☐ Industrial ☐ Commercial ☐ Single-Family Residential ☐ Multi-Family Residential

☐ Irrigation ☐ Recycled Water ☐ Water System Facility

9. Public Outreach and Education

- Reduce new cross-connections
- Empower customers & contractors
- Develop web, social media & print materials
- Leverage public events such as Hometown Fair, Water Harvest Festival, etc.
- Engage local businesses through the Manhattan Beach Downtown Business & Professional Association and others.

10. Local Entity Coordination

- One-Team approach unifies CCC program throughout various City units:
  - Environmental Compliance
  - Fire Department
  - Community Development
  - Code Enforcement

- Harmonizes the CCC program with other City processes
- Establishes a process for tracking and documentation across departments
- Prevents program gaps
- Leverages workforce for improved efficiency

Cross-Connection Control Plan Implementation

- New customers addressed at time of establishing water service
- Target timelines for each major water service type

Initial Assessment Task	Schedule
Assessment of all new connections	At time of application for water service
Identification and assessment of high-hazard premises which are listed on Appendix D of the CCCPH	Within 24 months
Identification and assessment of hazardous premises supplemental to Appendix D of the CCCPH	Within 36 months
Identification of residential connections with special plumbing facilities and/or water use on the premises	Within 60 months
All remaining service connections.	Within 120 months

Impact On Property Owners

- Un-protected cross-connections will require corrective action
- Backflow prevention assembly installation costs vary by site and borne by the customer
- Installation location is the greatest challenge
  - City staff is dedicated to work with customers and contractors to find solutions
- Property owners must arrange testing, maintenance, and repairs of backflow assemblies
- Every customer will be treated fairly and equitably
- Public health protection, regulatory compliance, and customer service standards require full cooperation

CCC Program Goals

1. Protection of public health
2. Comply with regulations
3. Mitigate risk to City
4. Enhanced community confidence
5. Economic stability

Recommendation

- Adopt the City of Manhattan Beach Cross-Connection Control Plan (CCC Plan), prepared in accordance with the Cross-Connection Control Policy Handbook (CCCPH), and authorize submittal to the State Water Resources Control Board's Division of Drinking Water (DDW) for final approval, as required by state drinking water regulations.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