



Amendments to Administrative Code: Deliveries of Member Agency Water in Metropolitan's System in an Emergency

Engineering and Operations Committee

Item 8-4

July 8, 2019

Water System Reliability

Addressing seismic vulnerabilities and system resiliency

● Infrastructure Reliability

- Rehabilitation of prestressed concrete cylinder pipe
- Seismic upgrades of treatment plants and conveyance systems



● Emergency Response

- In-house manufacturing and construction capability
- Emergency communications
- Mutual assistance agreements with partners



Maintaining Water Deliveries during Emergencies – Current Options

- Utilize flexibility in Metropolitan's system to deliver water from multiple supply sources, feeders and/or reservoirs
- Utilize interconnections or operating agreements with other agencies



Maintaining Water Deliveries during Emergencies – *Proposed Future Option*

- Agencies may benefit from a proactive approach for utilizing Metropolitan's system during emergencies
- Discussed this topic with the member agency managers in January, February, March, and May 2019
- Presented the concept to the Board in March 2019
- Presented proposed Administrative Code changes to the Board in June 2019

Emergency Scenario

- An area within Metropolitan's system is out of service for a prolonged period after an earthquake
- There are no other delivery options for part of the impacted area
- Metropolitan's system could be used when a local system that has no other delivery options, subject to specific conditions, until repairs are complete

Emergency Example: One Agency



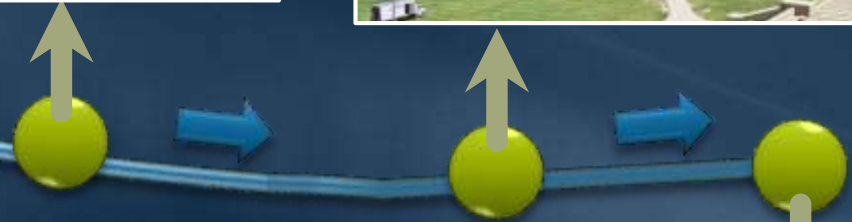
Emergency Example: One Agency



Emergency Example: Two Agencies

Normal Operations

MWD Water Treatment Plant



 = Service Connection

Agency A Water Supply



Emergency Example: Two Agencies

Emergency Operations

MWD Water Treatment Plant



No Flow

Agencies A and B fed with Agency A's water thru MWD system



 = Service Connection

Agency A Water Supply



Proposal: Update Administrative Code for Emergency Water Deliveries

- Provide member agencies with the option of using Metropolitan's system for agency water deliveries in an emergency, under specific conditions
- Amendments to the Administrative Code will provide for the use of Metropolitan's system under emergency conditions

Proposed Administrative Code Changes

- Emergency
 - Determined by Metropolitan's General Manager
 - 7 days or longer without Metropolitan supplies after a natural disaster or other emergency
- Emergency Deliveries
 - Only considered if there are no other options
 - Subject to Metropolitan General Manager's approval



Proposed Administrative Code Changes

- Multiple Agencies
 - One agency delivers to itself
 - One agency delivers to one or more other member agencies
 - Participating member agencies agree on the sharing of requirements
- Ability to Serve
 - Deliveries don't impair or impede Metropolitan's emergency recovery efforts

Proposed Administrative Code Changes

- Water Quality Standards and Liability
 - Participating member agencies responsible for meeting water quality standards and requirements and assume risk of any adverse impacts to downstream water quality
- Indemnification
 - Participating member agencies indemnify Metropolitan for any claims resulting from the emergency deliveries

Proposed Administrative Code Changes

- System Integrity

- Participating member agencies are responsible for any costs of repairing any damage to Metropolitan's system

- Compensation

- Rate for wheeling service not charged
- Participating member agencies reimburse Metropolitan for direct costs and administration fees
- Participating member agencies pay full-service rate for flushing (unless use own water)

Proposed Administrative Code Changes

- Operational Requirements

- Participating member agencies responsible to comply with Administrative Code requirements, for example, the section on Hydraulic Transients

- Term

- Discretion of Metropolitan's General Manager
- Ends when emergency deliveries are no longer necessary or need to be discontinued
- Not to exceed one year in length unless a longer term is approved by the Board

Options

- Option #1: Authorize amendments to the Administrative Code regarding deliveries of member agency water supplies in Metropolitan's system in an emergency
- Option #2: Do not authorize amendments

Staff Recommendation

- Option #1

