



Engineering, Operations and Technology Committee

Emergency Management Program Update

Item 7b

July 10, 2023

Emergency Management Program Update

Presentation Outline

- Program Overview
 - Authority
 - Response
 - Recovery
 - Planning/Preparedness
- Real-World Responses
- Future Actions



Authority



Operating Policy A-06

- Addresses how Metropolitan organizes and deploys resources to manage emergencies and ensure continuity of operations and critical business processes
- General Manager delegates authority for:
 - Emergency Management Program
 - IT Disaster Recovery
 - Business Continuity Program
- Establishes policies and responsibilities for Emergency Management Program

Emergency Response Organization

Response

Incident Command Posts (ICPs)

- Diemer
- Jensen
- Mills
- Skinner
- Weymouth
- Western Distribution
- Eastern Distribution
- Desert Distribution
- Lake Mathews

Emergency
Operations Center
(EOC)

EOC
Duty
Officer

Headquarters
ICP

Water
Quality ICP

IT
ICP

Manages District-wide emergencies

Follows State and Federal guidelines



Response Emergency Operations Center

Fixed-site, remote,
virtual, hybrid

Brings key managers
and staff together



Response Incident Command Posts

- Manage local incidents
- 12 located throughout Metropolitan
- Follow State and Federal guidelines

External
Agencies

Metropolitan
Management



EOC Duty Officer

Member
Agencies

Metropolitan
Staff

Response

EOC Duty Officer

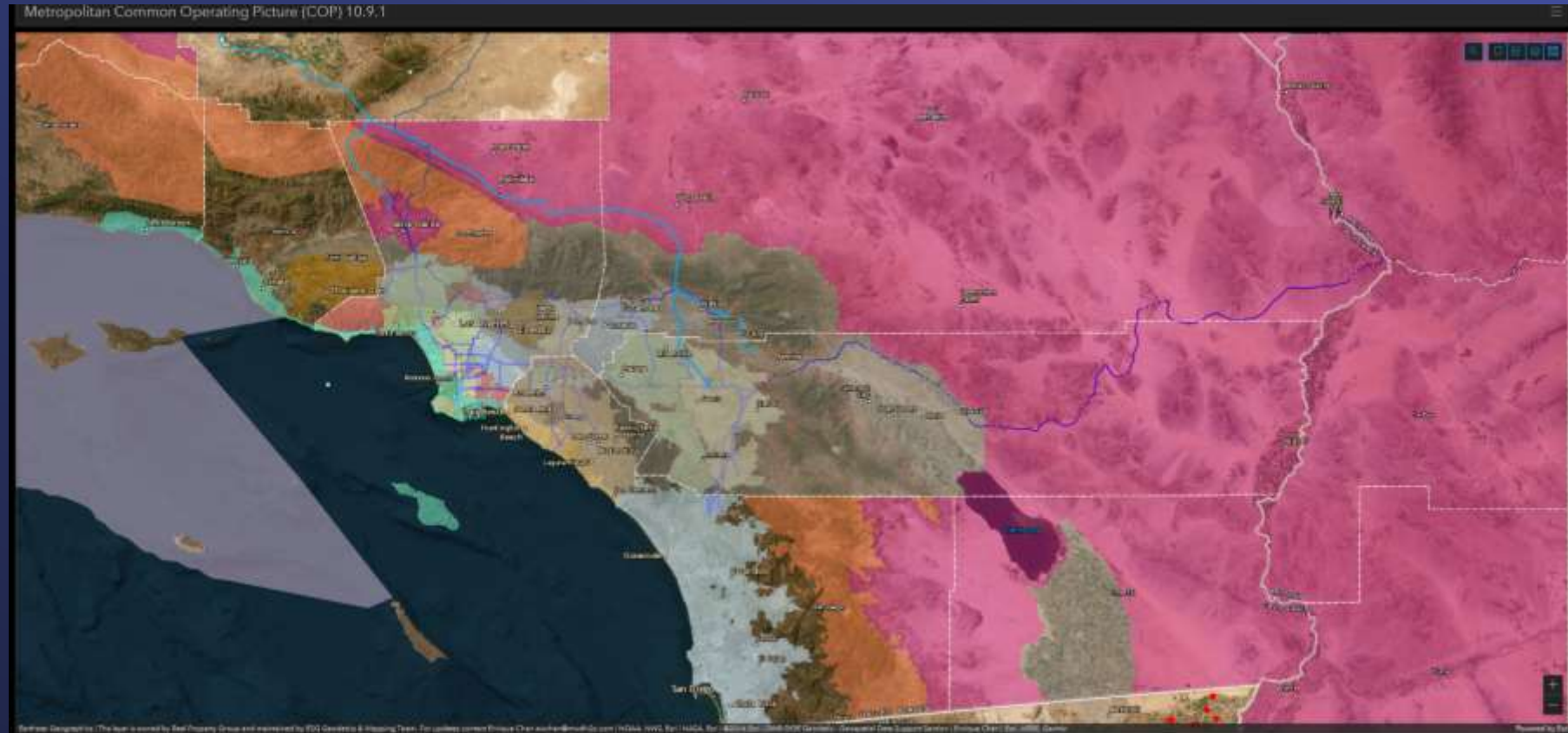
- On Call 24/7
- Covers EOC when not activated
- Monitors potential threats
- Connects all Metropolitan groups
- One-stop emergency point of contact

Response

Everything in One Place

- Weather alerts
- Duty Officer updates
- Earthquakes
- Fire thermal imagery
- Fire cameras
- Aqueducts
- Member Agency boundaries

Common Operating Picture Map



WebEOC | Ian Whyte | EOC - Management EOC Coordinator | Exercise - 2022 Shake Out Exercise | Log Out

Dashboard | File Library

Incident: Exercise - 2022 Shake Out Exercise

MWD EOC Activated Yes Details

Metropolitan EOC Events (32)

Warehouse Shelving Collapsed	Details
Influent capacity reduced 20%	Details
State of Emergency in 8 counties	Details
Injured Employee	Details
WQ POC request	Details
Route 5 (Team Yellow) Weymouth Patrol Route - 9:20am	Details
Route 4 (Team Green) Weymouth Patrol Route - 9:20am	Details
Route 3 (Team Red) Weymouth Patrol Route - 9:20am	Details
Route 2 (Team Orange) Weymouth Patrol Route - 9:20am	Details

ICPs Activated

Jensen		
Diemer	Yes	Details
Skinner		
Mills		
Weymouth	No	Details
Lake Mathews	No	Details
Desert C/D	No	Details
Western C/D	No	Details
Eastern C/D		
IT ICP		
Headquarters		
Water Quality		

Metropolitan EOC Dashboard

Incident Summary

This is an Exercise Message:
 EARTHQUAKE - A major earthquake happened this morning at approximately 0830 hours in the San Gabriel Mountains, approximately 8 miles north of the City of Azusa. The earthquake preliminary magnitude was 5.9 and it occurred in the San Gabriel Fault Zone. Shaking was felt throughout the Los Angeles County area, with the strongest shaking felt 20 miles of the epicenter. The shaking intensity lasted for up to 40 seconds in some areas. Caltech and the USGS advise that generally there could be at least one magnitude 5.5 up to magnitude 6.4 aftershocks along with hundreds of smaller magnitude aftershocks in the near future.
 CalOES reports that at 10:20am Los Angeles area felt a 5.5 magnitude aftershock along the Santa Susana fault line, that lasted approximately 20 seconds.

Member Agency Significant Events (0)

EOC Emergency GIS Map

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Example from 2022 ShakeOut Exercise

Response

Metropolitan's WebEOC System

- Connects the EOC to the ICPs in real-time
- Separate from Metropolitan's business network
- Can track multiple events at once
- Customized to meet the needs of Metropolitan
- Can incorporate Member Agency updates as well

Ensuring Emergency Readiness



Response

Training and Exercises



- Standardized training
- Minimum of 3 exercises per unit, per year
 - Over 40 exercises annually
- Recent exercises include:
 - ShakeOut 2022
 - Diemer Full-Scale Exercise 2022
- Monthly communication drills

Response

Training and Exercises

Partnering with Member and External Agencies



Incident: Exercise - Desert ICP 2023 CRA Shut Down - 1/31/23 to 2/24/23

MWD EOC Activated	No
Metropolitan EOC Events (90)	
ARC - Army II Power Grid Logic	2023/07/20
ARC - Training at Rock Mountain	2023/07/19
Health Policy Power Grid Scenario	2023/07/19
Health 230kV & 4V Stack 1 & 2 w/ RSCD testing	2023/07/19
Health 110/138V State Panel equipment	2023/07/19
Health Pump plant balancing	2023/07/19
230kV Turret Clearing - West of Hards	2023/07/19
Support Roles & Detail Reserve Plant Personnel	2023/07/19
Health Pump plant - Last Pump Off	2023/07/19
ICPs Activated	
Genent	
Lawson	
Hansen	
Mills	
Wynneault	
John Matthews	
Desert CIO	2023/07/20
Western CIO	
Eastern CIO	
TICP	
Headquarters	
Walker Utility	



Pursuing Damage Recovery Funding After Emergencies

Recovery



- Seeking public assistance and reimbursement
 - FEMA and Cal OES
- Coordinating with outside partners
- Transitioning from Response to Business Continuity

Comprehensive Overall Emergency Response Plan

Planning / Preparedness



- Metropolitan's Emergency Response Plan meets criteria set in the 2018 American Water Infrastructure Act (AWIA)
- The plan follows a multi-hazard approach, and lays out how Metropolitan will respond to an emergency
- Requires Risk and Resilience Assessment, as well as Emergency Response Plan
- Updated plan is due mid-2025

New Plans Under Development

Planning / Preparedness



- Local Hazard Mitigation Plan
 - Identifies potential hazards and mitigation strategies
 - Provides framework for future project funding
- Dam Emergency Action Plans
 - Approved by Cal OES
 - Requires outreach to local jurisdictions
 - Requires annual exercises and updates

Coordination Required for Effective Plan Implementation

Planning /
Preparedness



- Emergency Response Plan
- Local Hazard Mitigation Plan
- Dam EAPs
- Safety and Regulatory Plans
- Business Continuity Plans
- Crisis Communications Plan

Fairview Fire

Real-World Responses

- Metropolitan EOC, Eastern C&D and Skinner ICPs activated
 - Supported fire suppression operations
- September 5-11, 2022
 - Near Diamond Valley Lake and Skinner Plant
 - 28,307 acres burned



January 2023 Storms

- High turbidity into Jensen Plant due to heavy rains over Castaic watershed
- Jensen ICP activated
- Effectively managed high solids loading
- Met all water quality compliance goals

Real-World Responses



Castaic Lake Boat Ramp (Jan 12, 2023)



Real-World Responses



Malibu Earthquake

- Magnitude 4.2 earthquake offshore near Malibu
- ShakeCast alerted of possible damage
- Outreach to local Member Agencies
- Patrollers responded, confirmed no damage



From USGS

Preparing for Wildfires

Real-World Responses

- Coordinate with local and state firefighting agencies
- Duty officer monitors local brushfires
- Staff prepared to participate at fire department command posts



Future Actions



Next Steps

- Enhance EOC/ICP operations, including mobile response capabilities
- Expand planning and exercises with first responders and other partners to improve readiness
- Participate in planning for 2028 Olympics



