

**CALIFORNIA DEPARTMENT OF WATER
RESOURCES - ALL HAZARDS
EMERGENCY MANAGEMENT**



**June 19, 2013 Presentation to the
California Water Commission**

DWR'S EMERGENCY MANAGEMENT APPROACH AND PRINCIPLES



Training

- First Responders and Support Staff
- Emergency Operation Center Staff and Executive/Management Staff



Exercising

- Workshops, Tabletop, Functional and Full Scale Level Internal and External Exercises
- Building and Improving from Lessons Learned



Establishing Key Partnerships

- Governmental and Tribal
- Non Governmental Agencies



DWR'S EMERGENCY MANAGEMENT APPROACH AND PRINCIPLES CONTINUED



Mandatory Certification and Qualifications

- Standardized Emergency Management System/Incident Command System ACI
- National Incident Management System ACI



Preferred Background and Experience

- CA Safety Assessment Certification, Certified Emergency Manager (State and/or National), P.E., Geotech, Biologist, GIS, Hydrologist, PIO, Environmental Resource Specialist, etc.
- Man Made and Acts of Mother Nature Caused Emergencies and/or Disasters



Meet Our Missions

- In CA Water Code, Government Code, Burns Porter Act, State Emergency Plan and DWR Administrative Orders
- Comply With Regulatory Codes and Law



EXECUTIVE ORDERS

- S-01-06, February 24, 2006
 - A State of Emergency was declared in California due to the dangerous condition of the State's levee system and DWR was required to complete 24 critical levee erosion repairs.
- S-06-08, June 4, 2008
 - Declared a Statewide drought and ordered DWR to address the water shortage and water delivery limitations. A State of Emergency was declared in June 2008 and February 2009 due to the drought.



DWR EXERCISE PLAY – RECENT AND PAST

- Golden Guardian 2013: 7.9 Magnitude Earthquake in the San Francisco Bay Area Region impacting 10 Counties.
- 2011/2012: CA National Guard Dual Status Command: Catastrophic 8.1 magnitude earthquake in the Southern California Region
 - First time utilizing Unified Coordination Group Concept, and Title 32 (Governor's Command) versus Title 10 (US Army Command) resources.

Note: DWR received recognition for its leadership role and assistance in the development, mission training and conduct of this exercise

- Golden Guardian 2011: Catastrophic Flood impacting Northern California and the Central Valley (Eureka to Fresno).

Note: DWR served as the co-lead in the design and simulation of this exercise and received awards from the CA Emergency Services Association and the CNG Adjutant General.



DWR EXERCISE PLAY CONTINUED

- Golden Guardian 2010: Port Terrorism exercise simulating simultaneous attacks to seven California ports.
- Golden Guardian 2008: 7.8 Magnitude Earthquake impacting Southern California along the San Andreas Fault.
- Golden Guardian 2006: 7.9 Magnitude Earthquake, modeled after the 1906 San Francisco Earthquake.



DWR EXERCISE PLAY CONTINUED

- Golden Guardian 2005 Exercise Included:
 - Three improvised explosive devices (IED's) exploding on three rail cars
 - Multiple small back packs detonating
 - Gasoline tanker exploded and burned
 - A multiple vehicle accident, which trapped a large Liquid Propane Tanker Truck

- Golden Guardian 2004 Exercise Included:
 - Dirty bomb attack
 - Train derailment
 - Toxic spill
 - Airport hijacking



DWR EXERCISE PLAY CONTINUED

- 1999 – American River Flood Tabletop
- 2001 – DWR Internal Flood Operations and State Water Project
- 2002 – State Water Project Terrorism
- 2003 – DWR Internal Incident Command Team, Flood Operations Center and Public Affairs Communication
- 1999 – FERC Relicensing Exercises: Pyramid Facilities, Oroville Facilities (2004), and Pyramid Facilities (2009). DWR is beginning exercise design for a 2014 Oroville Facilities exercise.
- 2011, 2012 and 2013 – Emergency Communication and Command Trailer
- 2013 – Flood Operations, Engineering and State Water Project Workshop; a subsequent Tabletop Exercise is scheduled for Fall.



MARS AIRPLANE LOADING WATER FROM SAN LUIS RESERVOIR (2007)

- Only two exist; used for aerial water drops during wild land fire fights



EMERGENCY REPAIR WORK ON JONES TRACT LEVEE IN THE DELTA (2004)



CALIFORNIA EMERGENCY SERVICES ASSOCIATION GOLD AWARD FOR “OUTSTANDING SERVICE IN EMERGENCY MANAGEMENT”



DWR EMERGENCY COMMAND AND COMMUNICATIONS TRAILER



EXAMPLES OF EMERGENCIES AND/OR DISASTERS RESPONDED TO BY DWR:

- 1980: CA Aqueduct Mile Post 10 Emergency Repair
- 1983: Coalinga Earthquake
- 1986: Yuba City Floods
- 1989: Loma Prieta Earthquake
- 1990: CA Aqueduct Mile Post 55 Emergency Repair
- 1994: Northridge Earthquake



EXAMPLES OF EMERGENCY RESPONSES CONTINUED

- 1995: CA Aqueduct Mile Post 39.5 Emergency Repair
- 1997: El Nino Flood
- 1997: CA Aqueduct Mile Post 56.5 Emergency Repair
- 1998: La Nina Flood
- 2001: Electric Power Shortage Emergency
- 2003: Southern CA Wild land Fires



EXAMPLES OF EMERGENCY RESPONSES CONTINUED

- 2004: Jones Tract Levee Failure Repair
- 2005/2006: Winter/Spring Northern CA Storms
- 2006: 34 Critical Levee Erosion Site Repairs
- 2007: Lightning Caused Wild land Fires – Statewide
- 2008: Statewide Wild land Fires
- 2010: Baja – Calexico Earthquake



COALINGA EARTHQUAKE (1983)



SO CAL FIRE – EVACUEE SHELTER SITE AT SAN DIEGO QUALCOM STADIUM (2003)



SO CAL FIRE – BURNED SAN DIEGO HOMES (2003)



NORTHRIDGE EARTHQUAKE (1994)



LOMA PRIETA EARTHQUAKE – CYPRESS FREEWAY (1989)



LOMA PRIETA EARTHQUAKE – BAY BRIDGE (1989)



LOMA PRIETA EARTHQUAKE – MARINA DISTRICT (1989)



WILD LAND FIRES (2007 – 2008)



FUTURE CHALLENGES FOR DWR'S EMERGENCY MANAGEMENT AND SECURITY PROGRAM

- Maintaining high level liaisons, contact and coordination with local, state and federal and non governmental
- Loss of Institutional Knowledge
- Maintaining viable and effective FEMA Cost Recovery Program



FUTURE CHALLENGES - CONTINUED

- Maintaining Continuity of Government Plan and the Continuity of Operations Plan
- Maintaining SEMS/NIMS/ICS Training Program
- Maintaining Safety and Security of Department staff and facilities
- Effective working budget and staffing



THANK YOU!

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