

Emergency Preparedness & Response

June 26, 2018

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Director



Together, Building
a Better California

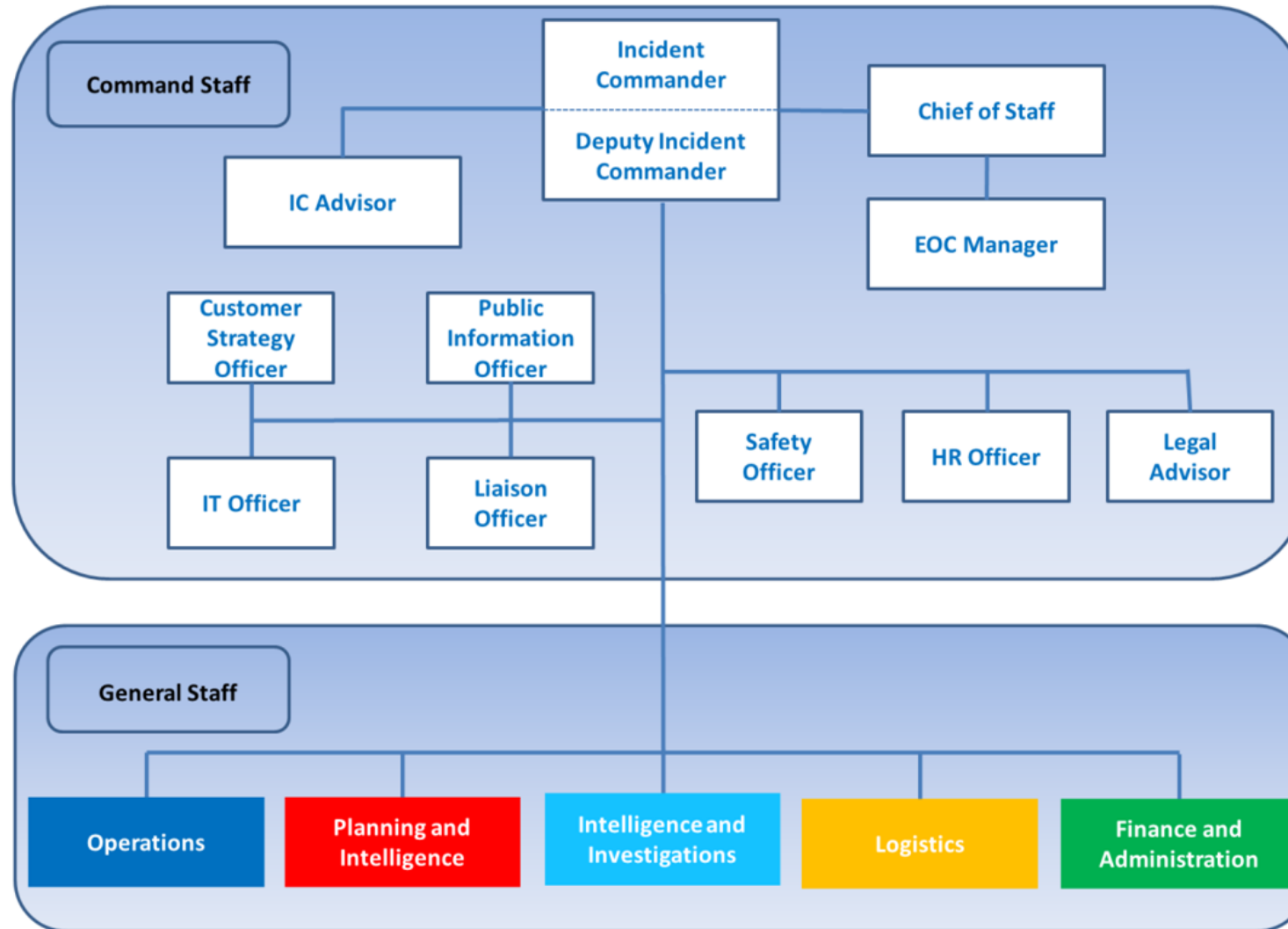
The Emergency Preparedness and Response (EP&R) organization is an overarching organization that leads initiatives focused on enhancing emergency preparedness and response company-wide.

Our approach to a catastrophic incident is predicated on two principals: our ***ability to scale***, and our ability ***to do so quickly***.





Command and General Staff





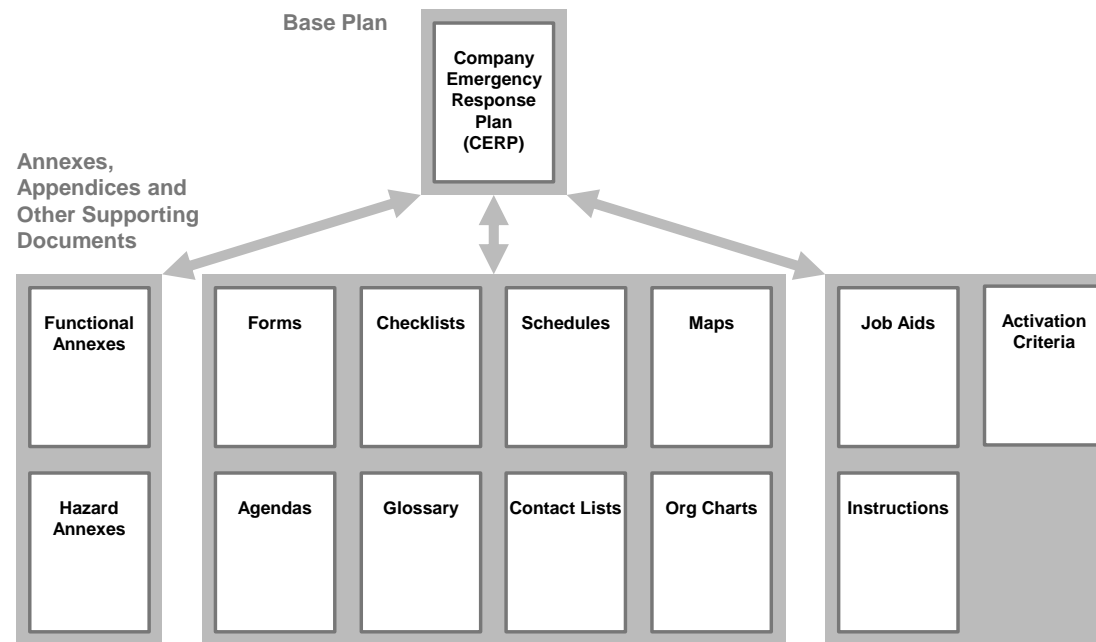
CERP Base Plan and Annexes

Base Plan

- CPUC GO 166 requires emergency response plan be updated annually
- Is applicable company-wide
- Flows from general emergency response concepts and guidelines to specific emergency management organizational structures, roles, responsibilities and processes

Annexes

- EMER-01 requires all PG&E emergency plans & annexes be updated annually
- Appendices to the base plan.
- Are packaged separately for ease of reference and referred to as the “[Topic] Annex”
- Contain more detailed process information than is found in the base plan





Ability to Scale Safely and Quickly

2014 Napa



2015
Middletown



1400 personnel on
a 44 acre site

2017 Rohnert
Park



80 acre site (dual commodity)

Logistics/Supply Chain continues to
expand capabilities to maximize
response





Role of WSOC

- In preparation for 2018 wildfire season PG&E is using new and extended operating practices and reinforcing our workforce's mindset on how we prevent, detect, and respond wildfires. One of the extended operation practices is the inauguration of PG&E's Wildfire Safety Operations Center (WSOC).
- The Wildfire Safety Operations Center (WSOC) is outfitted with a wall of screens displaying various real-time information throughout PG&E's service territory to coordinate an effective response. Specifically, the WSOC:
 - Monitors wildland fire detection, weather, and fire index forecast sources to identify potential or new wildland fires
 - Collects and assesses wildland fire information
 - Provides situational awareness to field staff and executive leadership, and creates reports, as needed
 - Makes notifications and facilitates coordination calls, as needed





External Stakeholder Partnerships

PG&E is working with external partners to ensure alignment with preparedness and asset resiliency efforts

CAL OES

- PG&E utility rep sits on the Mutual Aid Regional Advisory Committee (MARAC)
- Physically staffed CAL OES offices during emergencies.



Lifelines Council



City and County of San Francisco
LIFELINES COUNCIL



- Partnerships and quarterly meetings with SF DEM
- Early earthquake warning systems

Red Cross and SF DEM

- Partnered with Red Cross discussing crisis decision making and leadership
- Partnered with Salvation Army & participated in SF Fleet Week



American Red Cross



9 Bay Area Counties



- Working sessions with 9 Bay Area County OES' to identify critical and essential customers

Edison Electric Institute (EEI)

- Partnered with EEI to develop the Western Region Mutual Assistance Group (WRMAG) for coordinated resource acquisition
- Cyber Mutual Assistance





External Engagements

Participating members of:

- Lifelines – SF, Bay Area
- California Emergency Services Association (CESA)
- California Utilities Emergency Association (CUEA)
- Fleet Week San Francisco
- EEI and WEI

Work Closely with:

- CPUS
- Cal ISO
- FEMA
- Cal OES
- SF DEM
- Police/Fire, FBI, NCRIC, CHP, etc.
- Red Cross
- Salvation Army





2017 Mutual Assistance Support Provided

Outgoing Support:

- Respond to FPL to support Irma restoration
- Respond to Puerto Rico to support Maria restoration

Mutual Assistance Agreements:

- Western Region Mutual Assistance Agreement
- California Utilities Emergency Association
- Florida Power Light
- American Gas Association
- Trinity
- Irrigation District
- WAPA





2017 Mutual Assistance Support Received

MARS Event January 2017

Companies:

- Central Lincoln
- Healdsburg
- Eugene Water & Electric Board (EWEB)
- LADWP
- Lodi Electric
- Redding Electric Utility (aka Redding MUNI)
- Roseville Electric
- SCE
- Tacoma Power

Intensified Wind Event January 2017

Companies:

- Central Lincoln
- Tucson/Sturgeon Tucson Electric Power
- Eugene EWEB
- Redding Electric Utility
- PNM (Albuquerque)
- Avista
- SRP – Salt River Project
- City of Vernon
- Lodi Electric

Presidents Day Event February 2017

Companies:

- Redding Electric Utility
- Lodi Electric
- Puget Sound Energy
- Tacoma Public Utilities
- APS
- Imperial Irrigation District (1st wave)
- Avista
- NorthWestern Energy
- Southern California Edison
- Pasadena Water & Power

Northbay Fires October 2017

Companies:

Electric Recourses:

- Redding Electric Utility
- PacificCorp
- Los Angeles Dept. of Water & Power
- Southern California Edison

- Sacramento Municipal Utilities District
- Modesto Irrigation District

Gas Resources:

- Socal Gas
- San Diego Gas & Electric





- PG&E uses HSEEP methodology to design/develop/execute exercises.
- 4+ internal exercises a year (Seminars, Workshops, TTX, FE, FSE)- several are in coordination with external partners.
- Exercise planning team consists of SMEs from all lines of business.
- EP&R leads the exercise program and After Action Report process.
- After action issues are identified, prioritized, assigned and placed into CAP



Benefits of CAP:

- Enables the consistent **identification, evaluation** and **resolution** of work and related issues.
- Allows us to identify trends and take proactive action
- Enhances **Safety Culture** within the organization
- Promotes **Continuous Improvement** at PG&E

CAP is used across many industries





2017 EEI Emergency Recovery Award

Pacific Gas and Electric Company Earns “Emergency Recovery Award” for Restoration Efforts After Continuous Winter Storms

BOSTON (June 13, 2017) — The Edison Electric Institute (EEI) today presented Pacific Gas and Electric Company (PG&E) with the association’s “Emergency Recovery Award” for its outstanding restoration efforts following a series of severe winter storms that hit California in January and February 2017.

The award is presented twice annually to EEI member companies to recognize their extraordinary efforts to restore service to customers following disruptions caused by severe weather conditions or other natural events. The winners were chosen by a panel of judges following an international nomination process, and the awards were presented during EEI’s Annual Convention in Boston.

In the winter of 2017, California experienced a series of winter storms that brought gusty winds, rainfall, flooding, mudslides, and snow to various regions. In total, 18 days out of the first two months of the year saw a severe weather event with service disruptions. During the two months of extreme weather, PG&E crews successfully restored service to more than 2.3 million customers impacted.

“The tireless work of PG&E crews to restore service following the winter storms exemplifies our industry’s commitment to customer service,” said EEI President Tom Kuhn. “The courageous and dedicated PG&E crews who faced hazardous conditions in the wake of this severe weather are greatly deserving of this recognition.”



Our team’s commitment and teamwork was truly One PG&E.

Thank You



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