

PG&E Emergency Preparedness & Response 2024 Public Safety Power Shutoff (PSPS) and Wildfire Full-Scale Exercise (FSE)

April 15-19, 2024

Observer Briefing

TRUSTED AGENT USE ONLY




Safety and Security Orientation

Everyone and everything is always safe

Assign safety roles if in person

Psychological Safety

- 
- Practice transparency and vulnerability
 - Avoid blame; learn from mistakes
 - Show care and appreciation
 - Invite new ideas from all
 - Disagree respectfully and with curiosity
 - Prioritize mental health by encouraging self-care



Fire

- Exits, escape routes, evacuation
- Fire ext.



Earthquake

- Drop, cover, hold



Medical Emergency

- 911/share location
- First aid/CPR
- AED



Security:

- Active shooter—get out, hide out, take out, call out
- Maintain situational awareness to mitigate hazards



Ergonomics

- [Proper ergo](#)
- 30/30: move 30 secs every 30 min

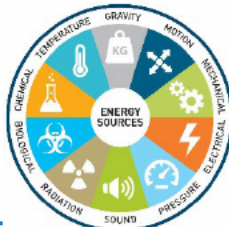


Start When Safe

- Are you physically and mentally able to work?

Don't report to work if testing positive for COVID-19 or have cold/flu-like symptoms

Energy-Based Hazard Wheel



On the road, off the phone



Park in a safe location

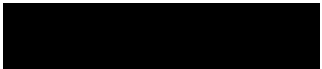
[SIF prevention field guide](#)

Welcome and Introductions

Director, Strategy and Execution (S&E), Emergency Preparedness & Response (EP&R)



Manager, S&E, EP&R Training & Exercises



Emergency Management Specialist, S&E, EP&R Training & Exercises



Agenda

- Exercise Overview
- Exercise Scenario
- Exercise Guidance
- Observer Guidance
- Final Reminders

Exercise Overview

PSPS and Wildfire Exercise Series Overview

Exercise Name	2024 PG&E PSPS/Wildfire Exercise Series
Exercise Dates	Wildfire Seminar: March 12, 2024 TTX: March 19, 2024 FSE: April 15-19, 2024 Seminar: September 3 rd , 2024
Region	PSPS Event Region: System Wide Wildfire Event Region: North Valley/Sierra
Exercise Scope/Scenario	A PSPS Event impacting a specific region(s); concurrent wildfire ignition <ul style="list-style-type: none">• North Valley/Sierra• North Coast• Central Valley (PSPS with REC and OECs staffed)• South Bay/Central Coast• Bay Area
Location	Virtual (MS Teams) or Vacaville Emergency Response Center (VERC) and corresponding emergency coordination centers
Plans	<ul style="list-style-type: none">• Company Emergency Response Plan (CERP)• PSPS Annex, Wildfire Annex• Others, e.g. FA-specific guidance, External Agency Plans/Procedures
Staffing	<ul style="list-style-type: none">• EOC, REC, and OEC Incident Management Teams; External Agency Partners; EOC staffing Charlie/Delta and on-call IMT

Objectives

- **Planning:** Implement a PSPS planning cycle according to CERP procedures and ICS principles that uses the circuit information provided to conduct a PSPS, and develop a restoration plan prior to receiving the "All Clear" from the Officer-in-Charge
- **Operational Coordination and Communication:** Implement a response structure that effectively integrates EOC sections, FAs, field crews, and external partners into a cohesive team capable of successfully aligning operational activities with internal and external priorities to safely manage the PSPS and Wildfire event (PSPS patrol assets, qualify and re-qualify patrollers, both air and ground patrols)
- **Public Information and Warning:** Communicate strategic messages to key audiences including PG&E personnel, Public Safety Partners, and customers including developing press releases, social media posts, and FAQs for the public and delivering required notifications to Cal OES, CPUC, and other regulatory bodies
- **Situational Awareness:** Support company-wide situational awareness by establishing and maintaining a common operating picture across the response organizational structure to meet the needs of relevant internal and external stakeholders impacted by PSPS (e.g., critical, medical baseline, and commercial customers)
- **Critical Resources:** Analyze the impacted area to prioritize available resources in a way that reduces physical security concerns and minimizes impacts of the shutoff to company facilities and other critical infrastructure
- **Fire Management and Suppression:** Provide support to firefighting activities to manage and suppress fires of all types and complexities while protecting the lives, property, and the environment in the affected area.
- **Natural and Cultural Resources:** Protect natural and cultural resources and historic properties through appropriate planning, mitigation, response, and to preserve, conserve, rehabilitate, and support to restore them consistent with post-disaster community priorities and best practices and in compliance with applicable environmental and historic preservation laws and executive orders.

Internal Participation

- **Electric Distribution**
- **Electric Transmission**
- **Electric Field Operations**
- **Information Technology**
- **Electric Incident Investigations**
- **Corporate Safety**
- **Corporate Security**
- **Corporate Real Estate Strategy and Services (CRESS)**
- **Aviation Services**
- **Corporate Affairs**
- **PSPS PMO**
- **Safety and Infrastructure Protection Team (simulated)**

- **Customer Care**
- **Human Resources**
- **Marketing & Communications**
- **PSPS Technology/Operations**
- **Meteorology (simulated)**
- **Temporary Generation (simulated)**
- **Hazard Awareness & Warning Center (HAWC)**
- **Finance**
- **Vegetation Management**
- **Power Generation**
- **Gas Operations**
- **Materials and Sourcing**
- **Land Management**
- **Environmental Management**

External Participation

➤ **Playing**

- Cal OES
- Alameda County
- Mariposa County
- Winter FD
- Yolo County
- Shasta County
- Marin County
- Madera County
- California Foundation for Independent Living Centers (CFILC)
- Community Based Organizations (CBOs)
- NCPA

➤ **Observing**

- Telecom Companies
- CPUC
- CBOs
- Cal Fire
- City of Lompoc Electric
- SCE
- SDG&E
- Tennessee Valley Authority
- Ernst & Young
- California State Schools
- XCEL Energy
- Sierra County
- Calaveras County
- Shasta County
- Fresno County

Exercise Assumptions

Assumptions help ensure the exercise is realistic, and frame the “rules” for exercise play.

- The exercise will be conducted in a no-fault environment where systems, processes, and outcomes—not individuals—will be evaluated
- The exercise scenario is plausible, and events occur as they are presented
- Exercise simulation contains sufficient detail to allow Players to react to information and situations as if the simulated incident were real
- Participating teams may need to balance exercise play with real-world emergencies. If they occur, real-world emergencies take priority

Exercise Artificialities

Artificialities are designed to alleviate potential constraints that could detract from exercise realism

- Exercise communication and coordination is limited to participating exercise organizations and venues listed in the Player Phonebook. The SimCell will simulate all other entities or organizations
- Exercise simulation will be realistic and plausible and will contain enough detail from which Players can respond
- Players should physically report to their exercise locations at StartEx, and should presume to be “activated” within the simulated exercise world
- Certain resources may purposefully be unavailable or available only in part to ensure exercise objectives can be accomplished
- Tech down procedures (e.g., satellite phones, radios) will be simulated; all exercise communications will be via telephone and email

Exercise Artificialities (2/2)

Artificialities are designed to alleviate potential constraints that could detract from exercise realism

- Each day of the exercise will serve as one Operational Period with night shift being simulated, providing shift transition collateral every morning
- All phases of a PSPS Event will be exercised
- Day 1 will start with Readiness Posture
- Under no circumstances will power be de-energized during this exercise

Exercise Artificialities

Artificialities are designed to alleviate potential constraints that could detract from exercise realism

- Exercise communication and coordination is limited to participating exercise organizations and venues listed in the Player Phonebook. The SimCell will simulate all other entities or organizations
- Certain positions and agencies will be simulated. Exercise simulation will be realistic and plausible and will contain enough detail from which Players can respond
- Players should physically report to their exercise locations at StartEx, and should presume to be “activated” within the simulated exercise world
- Certain resources may purposefully be unavailable or available only in part to ensure exercise objectives can be accomplished
- Tech down procedures (e.g., satellite phones, radios) will be simulated; all exercise communications will be via telephone and email

Exercise Artificialities (Cont.)

Artificialities are designed to alleviate potential constraints that could detract from exercise realism

- The four days of exercise conduct will be viewed as one Operational Period per day with night shift being simulated, providing shift transition collateral every morning
- All phases of a PSPS Event will be exercised **EXCEPT** Day 5 (Patrol and Restore)
- Day 1 will start with Readiness Posture
- Field operations will be simulated
- Under no circumstances will power be de-energized during this exercise

Initial Conditions & Player Shift Transition

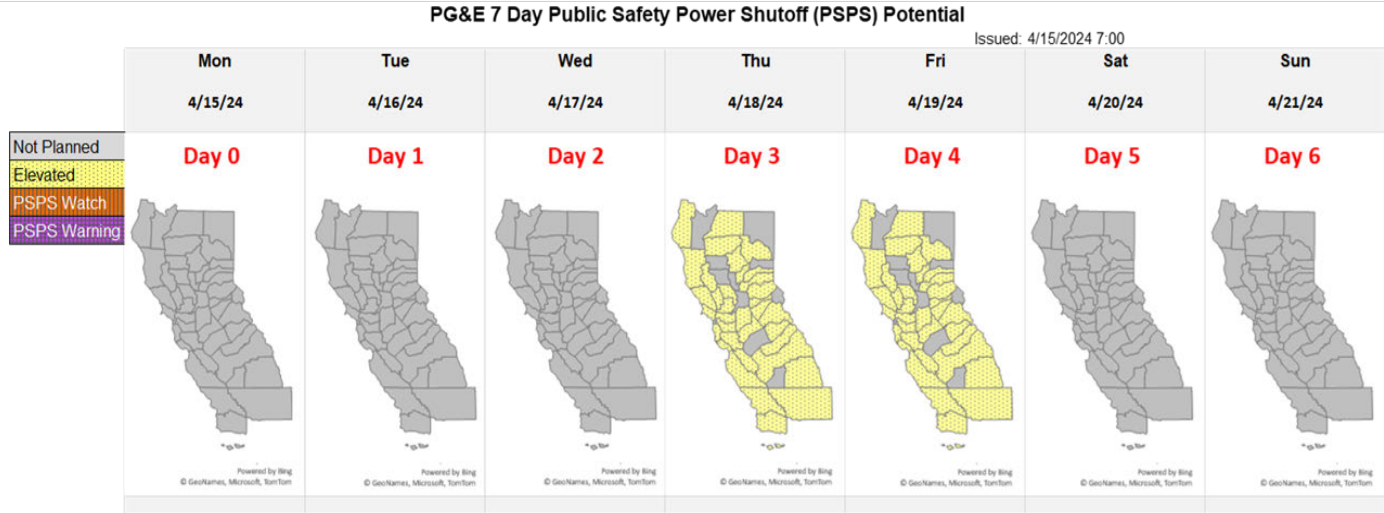
Players will receive a transition briefing to level-set initial StartEx conditions and ResumeEx conditions.

- Initial Conditions will begin with Meteorology (part of player brief and StartEx)
- A “simulated” night shift will approve the IAP and any other collateral and next morning will discuss at transition
- Weather will give an update at each morning transition

Scenario Overview

Meteorology Overview

PG&E Meteorology is tracking variable weather conditions. A dry, offshore wind event is expected to develop Thursday, April 18th, 2024, with increasing winds during the late morning timeframe, before reaching peak intensity Thursday evening. Wind speeds are expected to be highly variable, reaching 25 – 35 mph with gusts 45 – 55+ mph across elevated terrain.



This forecast has been customized solely for PG&E utility operations and should not be used for any other purpose or by any other entity. This tool provides an outlook of the potential for a Public Safety Power Shutoff (PSPS) event in the next 7 days. It is not a fire danger forecast. PSPS decisions are made at more granular levels than provided here; thus, only a portion of a county may experience a PSPS event.

Day 0 Mon 4/15/2024			Day 1 Tue 4/16/2024			Day 2 Wed 4/17/2024			Day 3 Thu 4/18/2024			Day 4 Fri 4/19/2024			Day 5 Sat 4/20/2024			Day 6 Sun 4/21/2024		
Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning	Elevated	PSPS Watch	PSPS Warning
									Humboldt			Humboldt								
									Shasta			Shasta								
									Tehama			Tehama								
									Mendocino			Mendocino								
									Marin			Marin								
									Sonoma			Sonoma								
									Lake			Lake								
									Napa			Napa								
									Solano			Solano								
									Yolo			Yolo								
									Butte			Butte								
									Nevada			Nevada								
									Placer			Placer								
									Plumas			Plumas								
									Yuba			Yuba								
									San Mateo			San Mateo								
									Santa Clara			Santa Clara								
									Santa Cruz			Santa Cruz								
									Stanislaus			Stanislaus								
									Alameda			Alameda								
									Contra Costa			Contra Costa								
									Amador			Amador								
									Calaveras			Calaveras								
									El Dorado			El Dorado								
									Mariposa			Mariposa								
									Tuolumne			Tuolumne								
									San Joaquin			San Joaquin								
									Monterey			Monterey								
									San Benito			San Benito								
									Fresno			Fresno								
									Madera			Madera								

Meteorology Overview

The Meteorology Services team will implement a Distribution System Operations (DSO) Storm Outage Prediction Project (SOPP) model to determine the severity of the incident

DSO SOPP is used to predict the daily outage volume and resources needed to respond to weather events. DSO SOPP Model is projecting a Cat 2 system total wind event, with Cat 3 outage totals possible for some divisions, indicating that significant adverse weather is possible. The DSO SOPP model is showing the potential for up to 56,500 customers to be impacted on Thursday, April 18th and approximately 64,600 for Friday, April 19th.

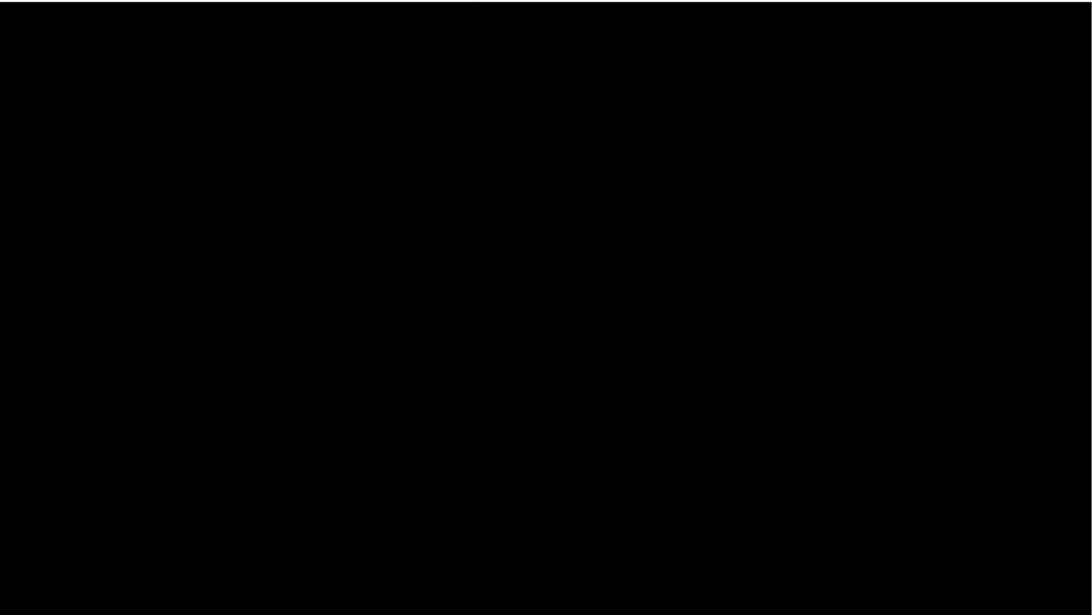
NOTE: The DSO SOPP model provides a forecast of unplanned outages for the entire territory and the estimated customer impacts are not related to those who may be de-energized due to PSPS.

DSO SOPP Model Forecast

Issued: Monday, April 15, 2024 08:00

Transformer Level Outages and Above

Cat	Staffing	Qualitative Weather
Cat 1	Normal, but have a plan	Sig. Adverse weather unlikely
Cat 2	Have a plan for escalation	Adverse weather possible
Cat 3	Staffing & Timing as Directed	Adverse weather likely
Cat 4	Staffing & Timing as Directed	Extreme weather possible
Cat 5	Staffing & Timing as Directed	Extreme weather likely

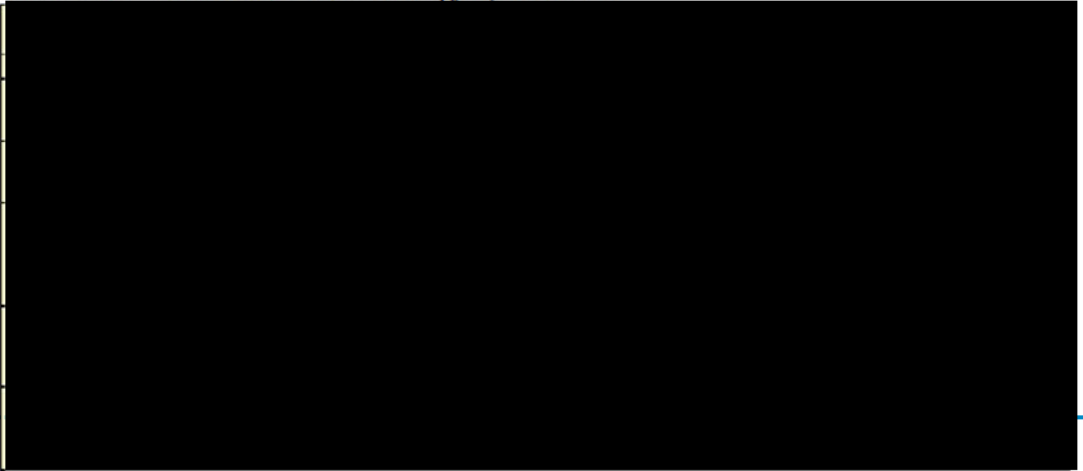


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Meteorology Operations & Analytics

Notes: SO = Sustained Outages, CESO = Customers Experiencing Sustained Outages, TM = Troublemakers, CR = Crews

DSO SOPP Model Forecast Timing, by Division



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Meteorology Operations & Analytics

Note: Timing reflects the risk period of outage producing weather for any division at elevated Cat 1 or above

Meteorology Overview

Winds will decrease below outage producing thresholds between 0700 and 0900 hours on Friday, April 19th. DSO SOPP model and derivate products show typical resource requirement for a wind event; no resources have been added to account for increased patrolling needs.

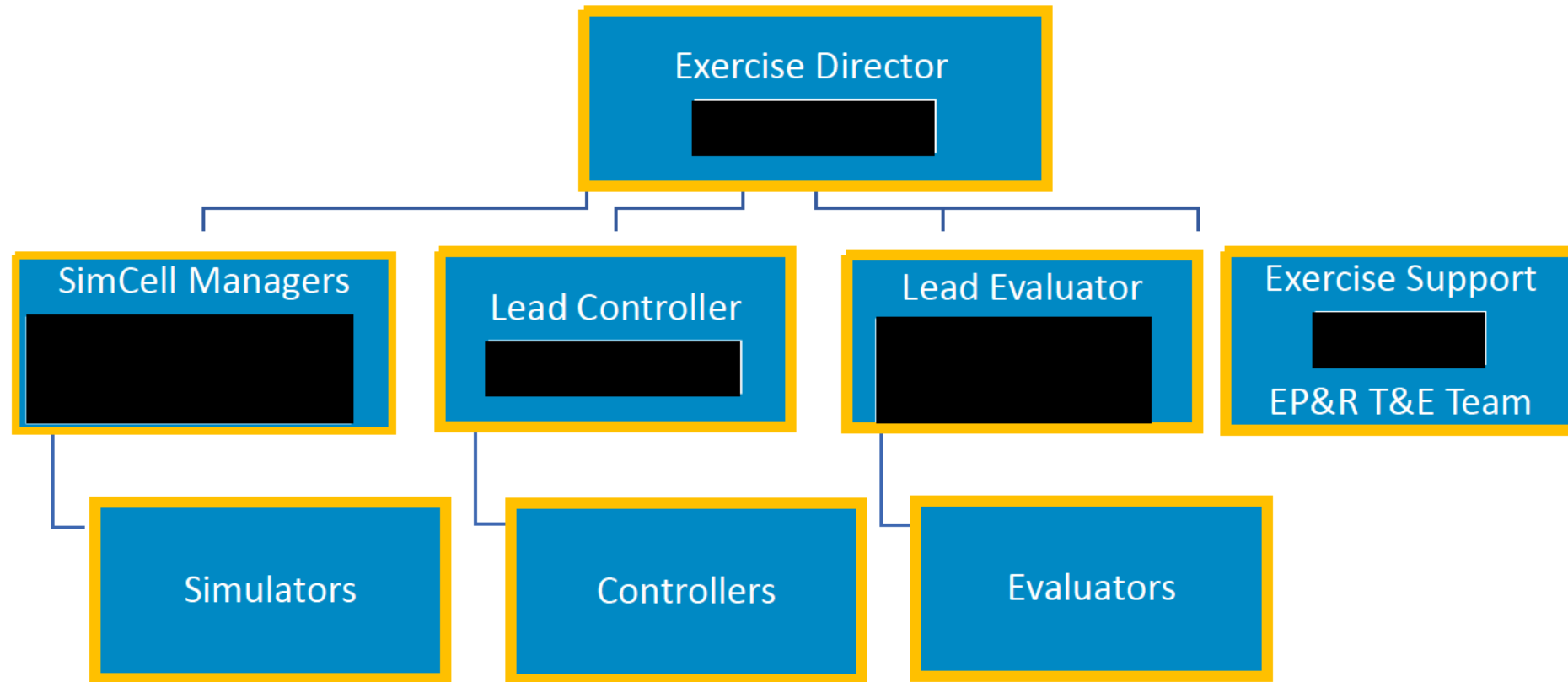
Given the extremely dry conditions, Extreme-Plus fire danger is expected between 1400 Thursday and 1000 Friday in Fire Index Areas (FIA) 105, 140, 150, 154, 175, 177, 180, 185, 190, 244, 246, 247, 248, 250, 280, 282, 300, 305, 320, 330, 335, 340, 345, 348, 350, 360, 370, 400, 420, 424, 427, 428, 430, 438, 440, 448, 450, 490, 500, 507, 510, 512, 518, 520, 525, 530, 535, 540, 545, 553, 560, 575, 582, 585, 586, 588, 590, 651

Exercise Guidance

Exercise Roles

- **Players:** Players are personnel who perform their regular roles and responsibilities during the exercise. Players initiate actions in response to the simulated emergency.
- **Controllers:** Controller's plan and manage exercise play, set up and operate the exercise sites, and/or portray the roles of organizations or individuals that are not playing in the exercise
- **Simulators:** Simulators are control staff personnel who role play nonparticipating organizations or individuals
- **Evaluators:** Evaluators observe and document performance against established exercise objectives and critical tasks in accordance with Exercise Evaluation Guides (EEGs)
- **Observers:** Observers visit or view selected segments of the exercise. Observers do not play in the exercise, nor do they perform any control or evaluation functions
- **Support Staff:** The exercise support staff includes individuals who perform administrative and logistical support tasks during the exercise

Exercise Control Organization



Exercise Terminology & Authority

- **STARTEX:** Start of the exercise
 - Can only be called by the Exercise Director or Lead Controller
- **PAUSEEX:** Global or local brief suspension in play
 - Global PAUSEEX is called by the Exercise Director or Lead Controller when all organizational units will pause exercise operations for a short period of time or between exercise conduct days
 - Local PAUSEEX is called by the on-site Controller and communicated to the Lead Controller and Exercise Director when a localized safety issue or brief training moment is required
- **RESUMEEX:** Resumption of the exercise
 - Called by the Exercise Director or Lead Controller to resume exercise play after a short pause or to start a subsequent exercise conduct day
- **ENDEX:** End of the exercise
 - Can only be called by the Exercise Director or Lead Controller once time has run out or the exercise objectives have been accomplished



2024 FSE Pro Flow

Co-Op Call (1200) & State Call (1530)

Ext Sit Report (0900 & 1500)

Playbook Available

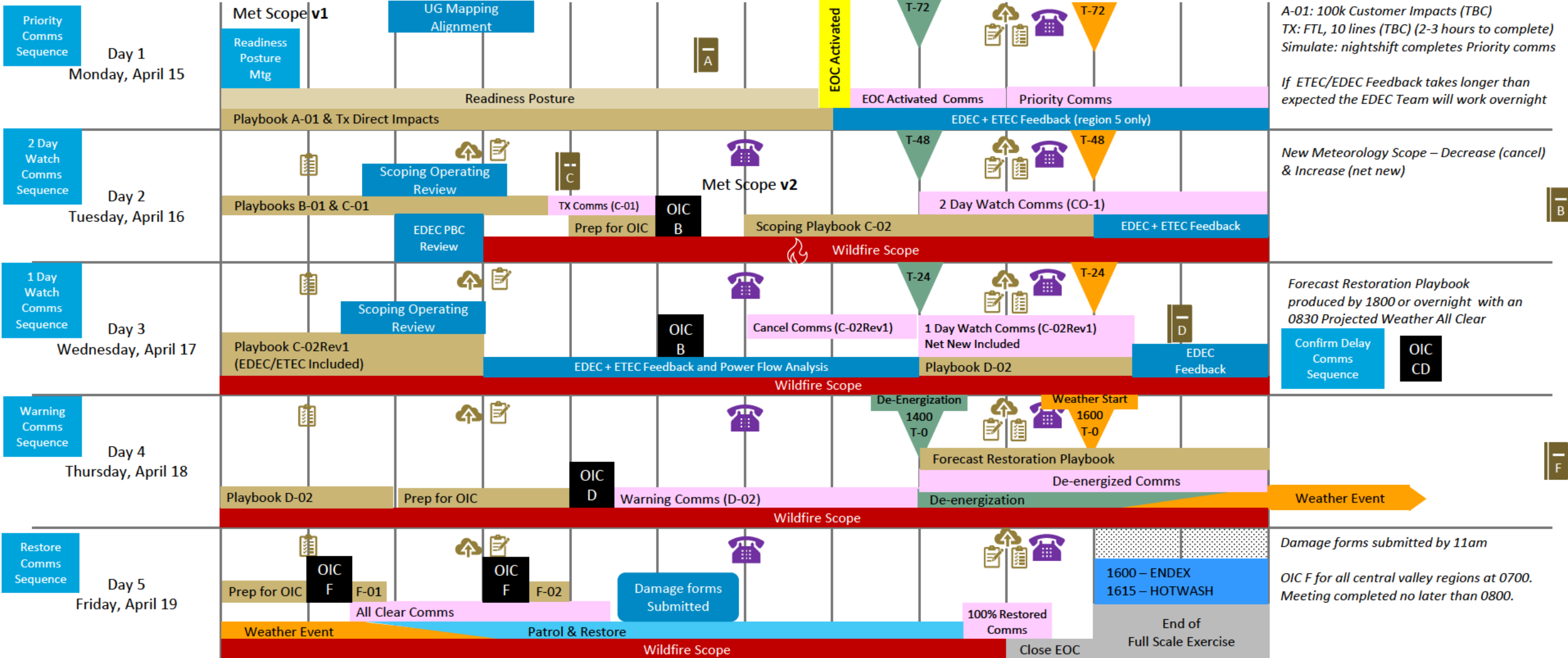
Portal Update (0900 & 1500)

Wildfire Activity

Cal OES Form (0700 & 1500)

Dx – 201 Circuits (maybe shrunk)
EDEC Feedback only on Region 5 (80k customer)
Tx – 20 Lines

0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 Overnight



Observer Guidance

Safety and Real-World Emergencies

- Safety and real-world emergencies take priority over exercise events
 - If there is an unsafe situation, stop activity
 - Report all minor accidents and injuries to the Lead Controller
 - For all major accidents or injuries, call 911
- **“Emergency Traffic”** is the designated phrase that indicates there is a real emergency

Observer Guidance

- If you are an external Observer, please use the link that will be sent to check in and out daily.
- The observer role is a controlled role and limited to observation and listening. Communication between players and observers is not allowed during the exercise.
- Observers should reach out to the Exercise Design Team if they have any questions or comments.
- Observers will be invited to meetings by leads or section chiefs or EOC players.
- Observers should consult with their leads for advice on which meetings they should plan to attend.

Observer Guidance

- Start of day and end of day meetings will take place in the EOC Main Floor Meeting Invite. All Observers are welcome to attend EOC Main Floor meetings, but their role is limited to observation and listening.
- In-Person observers will check-in at the EOC front desk and work with our Liaison team to be escorted

VERC Visitor Guide

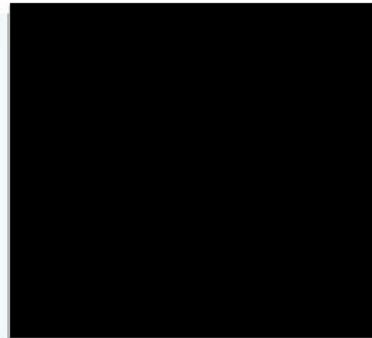


Vacaville Emergency Response Center (VERC) Public Safety Partner Guide

Pacific Gas and Electric Company (PG&E) activates its Emergency Operations Center (EOC) to respond to hazards for customer safety.

Public Safety Partner Access

- If a member of your organization plans to embed in PG&E's EOC, please inform your PG&E Liaison EOC contact and share:
 - Your vehicle type
 - The estimated time of arrival
 - Whether you require access accommodations
- VERC Security Staff will be notified and allow you access through the parking lot gate located in front of the VERC.
 - Upon arrival to the gate, press the button in the phone box to speak to security.
- Please sign in at the front security desk with a photo ID (i.e., government, agency, etc.) to verify your identity.
- Your Liaison EOC contact will also be at the front security desk to provide you with materials to wear until departure from PG&E's EOC:
 - Visitor vest
 - Emergency contact label (to be filled out and displayed on your vest)



VERC Public Safety Partner Guide Continued

Code of Conduct and Safety

Public Safety Partners visiting the VERC witness EOC personnel perform essential duties and access EOC information first-hand. During your visit, please refrain from:

- Participating in disruptive behavior
- Removing sensitive documents
- Taking photographs, audio recordings or video recordings
- Live-streaming EOC activities

In the event of an exercise, please avoid asking questions to participants unless you are an exercise player.

If you are experiencing COVID-19 or other illness/symptoms, we ask that you stay home to protect others.

What to Expect

While embedded your Liaison EOC contact will:

- Provide you with a **tour and safety orientation**
- Show you your **temporary work area** and provide WiFi information
- **Confirm your visitors' schedule**, including meeting times and opportunities for observation

What to Bring

- Laptop and charger
- Phone charger
- Pen and paper
- Refillable water bottle (as needed)
- Food and beverages*

**Food, snacks and beverages are available at the VERC, as well as microwaves/refrigerators for use. Gifting rules may apply: food/beverages consumed by agency partners may be considered a gift and reported as such.*

Some of the measures included in this document are contemplated as additional precautionary measures intended to further reduce the risk of wildfires. "PG&E" refers to Pacific Gas and Electric Company, a subsidiary of PG&E Corporation. ©2023 Pacific Gas and Electric Company. All rights reserved. 05/03/2023.

Community Resource Center (CRC) at the VERC

CRC Set Up:

Wednesday, 4/17/24

CRC Team meeting and training video recording

CRC Open

Thursday, 4/18/24

CRC open for viewing 0900 – 1700

All visitors welcome

Friday, 4/19/24

CRC open for viewing 0900 – 1400

All visitors welcome

CRC Demob 1400

Map of CRC Set Up at the VERC (4/17 - 4/19)



Exercise Environment-Internal Observers

For CES participants:

- General>>Check-in and out
 - (CES staff use “other” dropdown)
- R&R and OT based on
- All PSPS/WF FSE personnel will use **8210897** for all expenses, including time cards, check-in and check-out
- ICS 214 everyday
- Hotwash link
- Access to 3 restricted channels
- **Controllers** to help players use these links
- **1. Exercise Support** Channel for participants to get admin/Teams help

Teams | **General** | Posts | Files | **Check In/Out List** | Fill | 214 Form for 202... | Fill | Hotwash - 2024 P... | Useful Links

Exercise Environment

- General
- 1. Exercise Support
- Exercise Command Chat
- Exercise Comms Huddle
- Exercise Customer Strategy Chat
- Exercise Demobilization Unit Chat
- Exercise Finance Admin Chat
- Exercise Intelligence and Investigation ...
- Exercise Liaison Chat
- Exercise Logistic Chat
- Exercise Operations Chat
- Exercise PIO Chat
- Exercise Planning Section Chat
- Exercise REC and OEC Chat
- Exercise Safety Chat
- Exercise Temp Gen Chat
- Restricted Exercise CES Channel
- Restricted Exercise Planners
- Restricted Exercise Sim Cell
- Virtual EOC

Name *
Enter a name or email address
You can't leave this blank.

Employee Personnel Number *
Enter value here

Event Name *
2024.04.15 PSPS & Wildfire FSE Exer...

Emergency Center *
EOC
Please note which emergency center you are assigned to: EOC, REC, OEC etc.

Emergency ICS Position *
—

Date Time In
4/9/2024 01:50 PM

Date Time Out
Enter a date
3:30 PM

Team Name *
—

Shift Inquiry
☒ Regularly scheduled day on (ext hours possible)
☐ Regular day off / Weekend
☐ Night shift
☐ Holiday
What sort of day is this for you?

Workstation *
☐ In-Person
☐ Remote

Supervisor's LAN
Enter value here

Test - People
Enter a name or email address

Notes
Enter value here
Anything additional info to share for compensation purposes.

Attachments
[Add attachments](#)

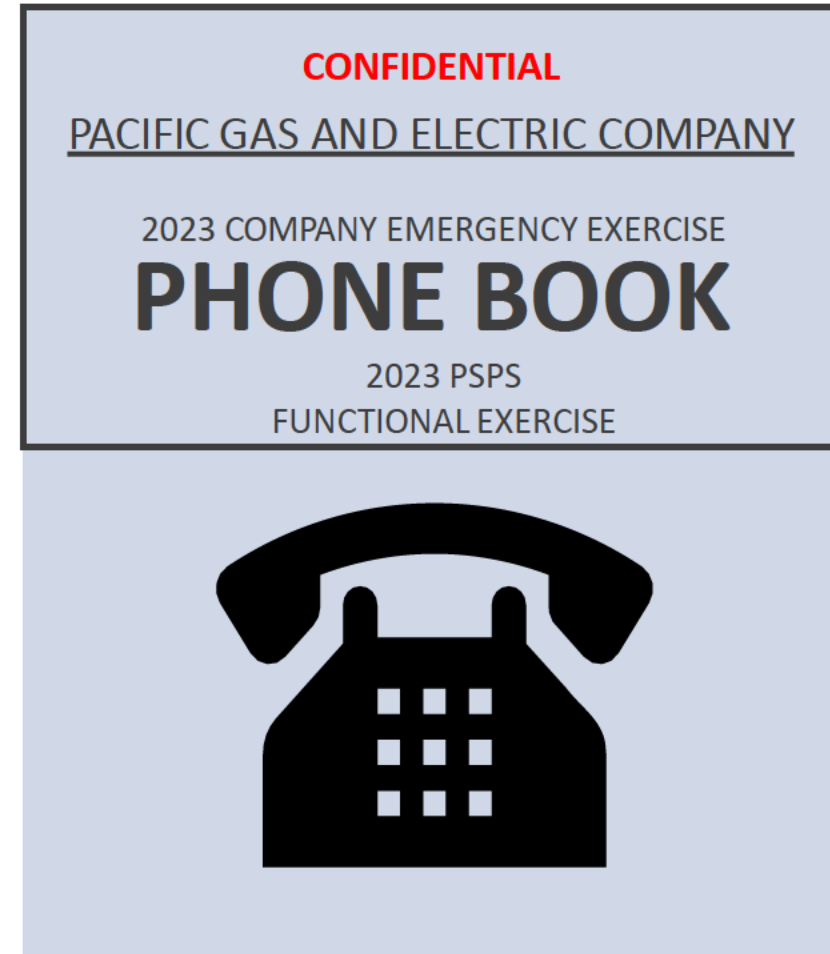
Save **Cancel**

Exercise Materials

Document	Audience	Purpose	Developed by
Exercise Plan (ExPlan)	Players and Observers	Provides participants with a synopsis of the exercise	EP&R
Observer Guide	Observers	Provides observers with guidelines during the exercise.	EP&R
Controller/Evaluator/ Simulator (C/E/S) Handbook	Controllers, Simulators, and Evaluators	Describes the roles and responsibilities of exercise controllers and evaluators, as well as the procedures they should follow during the exercise	EP&R
Master Scenario Events List (MSEL)	Controllers, Simulators, and Evaluators	Contains a chronological listing of the events aka injects that drive exercise play	EP&R, Exercise Planners
Exercise Evaluation Guides (EEGs)	Evaluators	Provides evaluators with information on what they should expect to see and evaluate during exercise play	EP&R, Exercise Planners
Initial Conditions Slides	Controllers, Simulators, and Evaluators	Provides detailed scenario information prior to START-EX	EP&R, Exercise Planners
State-of-the-World Slides/Docs	Players, Controllers, Simulators, and Evaluators	Provides a high-level overview of exercise scenario information prior to RESUME-EX between exercise conduct days	EP&R, Exercise Planners
Exercise Phone Book	Players, Controllers, Simulators, and Evaluators	Provides a list of who is playing and their contact information to use during the exercise	EP&R

Exercise Phone Book

- Reference for all communications related to the exercise
- Includes contact information for individuals, groups, external agencies, off-site addresses, all player positions, and simulated entities



Final Reminders

Documents

All information in this briefing is covered in more detail in the ExPlan, Visitor Guide and Phone Book

- **ExPlan**
 - Exercise and Scenario Overview
 - Exercise Rules and Guidance
 - Exercise Evaluation
 - Player Information and Guidance
 - Player Instructions
 - Exercise Participants

- **Visitor Guide**
 - Visiting the VERC
 - Security
 - Code of Contact & Safety

Questions