



# 2023 Public Safety Power Shutoff (PSPS) Functional Exercise (FE)

May 8-11, 2023

## Exercise Plan (ExPlan)





## HANDLING INSTRUCTIONS

1. The title of this document is the *2023 Public Safety Power Shutoff (PSPS) Functional Exercise (FE) Exercise Plan (ExPlan)*. The contents in this C/E/S Handbook reflect the information provided to exercise staff as of the date of publication and may be modified prior to execution at the direction of the Exercise Director.
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3. At a minimum, the attached materials will be disseminated strictly on a need-to-know basis and, when unattended, will be stored in a locked container or area that offers sufficient protection against theft, compromise, inadvertent access, and unauthorized disclosure.
4. For more information on this exercise, please consult the Exercise Director:

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Pacific Gas and Electric Company

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## EXERCISE OVERVIEW

<b>Exercise Name</b>	2023 Public Safety Power Shutoff (PSPS) Functional Exercise (FE)	
<b>Exercise Dates</b>	May 8-11, 2023 (Command and General Staff are in-person at the VERC)*  *other roles may be required as planning proceeds	
<b>Scope</b>	This FE simulates R5-Plus weather conditions to test PG&E's ability to prepare for, respond to, and recover from a PSPS event in alignment with the Company Emergency Response Plan (CERP), PSPS Annex, and functional area specific plans. The scenario will challenge players to respond in real-time to solve operational concerns.	
<b>Exercise Objectives</b>	The overarching exercise objectives align to the following core capabilities: <ol style="list-style-type: none"><li>1. <b>Planning</b></li><li>2. <b>Operational Coordination and Communication</b></li><li>3. <b>Public Information and Warning</b></li><li>4. <b>Situational Awareness</b></li><li>5. <b>Critical Resources</b></li><li>6. <b>Natural and Cultural Resources</b></li></ol>	
<b>Threat/Hazard</b>	R5-Plus Weather Conditions & Wildfire Risk	
<b>Participating Functional Areas</b>	<ul style="list-style-type: none"><li>▪ Electric Distribution</li><li>▪ Transmission Grid Operations</li><li>▪ Electric Transmission</li><li>▪ Electric Field Operations</li><li>▪ Information Technology</li><li>▪ Electric Incident Investigations</li><li>▪ Corporate Safety</li><li>▪ Corporate Security</li><li>▪ Corporate Real Estate Strategy and Services (CRESS)</li><li>▪ Hazard Awareness &amp; Warning Center (HAWC)</li><li>▪ Safety and Infrastructure Protection Team (SIPT)</li><li>▪ Customer Care</li><li>▪ Human Resources</li><li>▪ Marketing &amp; Communications</li><li>▪ PSPS Technology/Operations</li><li>▪ Meteorology</li><li>▪ Public Affairs</li><li>▪ Temporary Generation</li><li>▪ Finance</li><li>▪ Vegetation Management</li><li>▪ Power Generation</li><li>▪ Gas Operations</li><li>▪ PSPS PMO</li><li>▪ Aviation Services</li><li>▪ Corporate Affairs</li><li>▪ Supply Chain Logistics</li></ul>	
<b>Points of Contact</b>	<div>██████████ EP&amp;R Pacific Gas and Electric  ██████████ ████████████████████</div>	<div>██████████ EP&amp;R Pacific Gas and Electric  ██████████ ████████████████████</div>



## QUICK LOOK PG&E PARTICIPANT GUIDE

More detailed schedule on page 13

### Exercise Start Day 1, May 8 - READINESS POSTURE

- 0600 Virtual for Readiness Posture participants
- Readiness Posture participant list located in the phone book
- Anyone who wishes to participate at the VERC is welcome

### Exercise Start Day 1, May 8 – EOC Activation

- 1300 for all participants
- At the VERC, in person:
  - Command and General Staff
  - Resources Unit
  - Distribution Branch Director and Deputy Distribution Branch Director
  - Transmission Branch Director
- All other positions will participate virtually unless instructed otherwise by your Officer or Section Chief

### Exercise Start Day 2-4, May 9-11 – EOC Activation

- 0600 all participants
- At the VERC, in person:
  - Command and General Staff
  - Resources Unit
  - Distribution Branch Director and Deputy Distribution Branch Director
  - Transmission Branch Director
- All other positions will participate virtually unless instructed otherwise by your Officer or Section Chief

### Exercise End Day 4, May 11

- 1600 all Participants
- Hot wash for all participants directly following the end of the exercise

## Expenses

Please make your own reservations for hotel. Keep receipts of your food and room expenses. Finance will provide you the appropriate charge codes when you file your expense reports.





## GENERAL INFORMATION

### PURPOSE OF THE EXERCISE PLAN

This Exercise Plan provides participants with an overview of the exercise process, including general information, rules and guidelines, exercise outcomes, and an outline of the evaluation process.

### EXERCISE OBJECTIVES AND CORE CAPABILITIES

During this Functional Exercise (FE), PG&E will be evaluated on the exercise objectives and capabilities described below:

1. **Objective 1 — Planning:** Implement a planning cycle according to CERP procedures, PSPS Annex, 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 (OIC).
2. **Objective 2 — Operational Coordination and Communication:** Implement a response structure that effectively integrates EOC sections, Functional Areas (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 event.
3. **Objective 3 — Public Information and Warning:** Communicate strategic and required messages to key audiences including PG&E personnel, the public, response partners, and customers including developing press releases, social media posts, and frequently asked questions (FAQs) for the public and delivering required notifications to California Governor's Office of Emergency Services (Cal OES), California Public Utilities Commission (CPUC), and other regulatory bodies.
4. **Objective 4 — 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).
5. **Objective 5 — 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.
6. **Objective 6 — Fire Suppression and Management:** 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.
7. **Objective 7 — Natural and Cultural Resources:** Protect natural and cultural resources and historic properties through appropriate planning, mitigation, response, and recovery actions to preserve, conserve, rehabilitate, and restore them consistent with post-disaster community priorities and best practices and in compliance with applicable environmental and historic preservation laws and executive orders.



## SCENARIO AND SCOPE OVERVIEW

PG&E Meteorology is tracking variable weather conditions. A dry, offshore wind event is expected to develop Thursday, May 11th, 2023, 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. The Meteorology Services team will implement a Distribution System Operations (DSO) Storm Outage Prediction Project (SOPP) model to determine the severity of the incident.

The 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 28,000 customers to be impacted on Thursday, May 11th and approximately 23,400 for Friday, May 12th.

Winds will decrease below outage producing thresholds between 0700 and 0900 hours on Friday, May 12th. DSO SOPP model and derivative 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 1200 Thursday and 1200 Friday in Fire Index Areas (FIA) 100, 105, 120, 130, 150, 154, 170, 175, 177, 180, 244, 245, 246, 248, 280, 282, 285, 290, 420, 438, 445, 448, 530, 651.



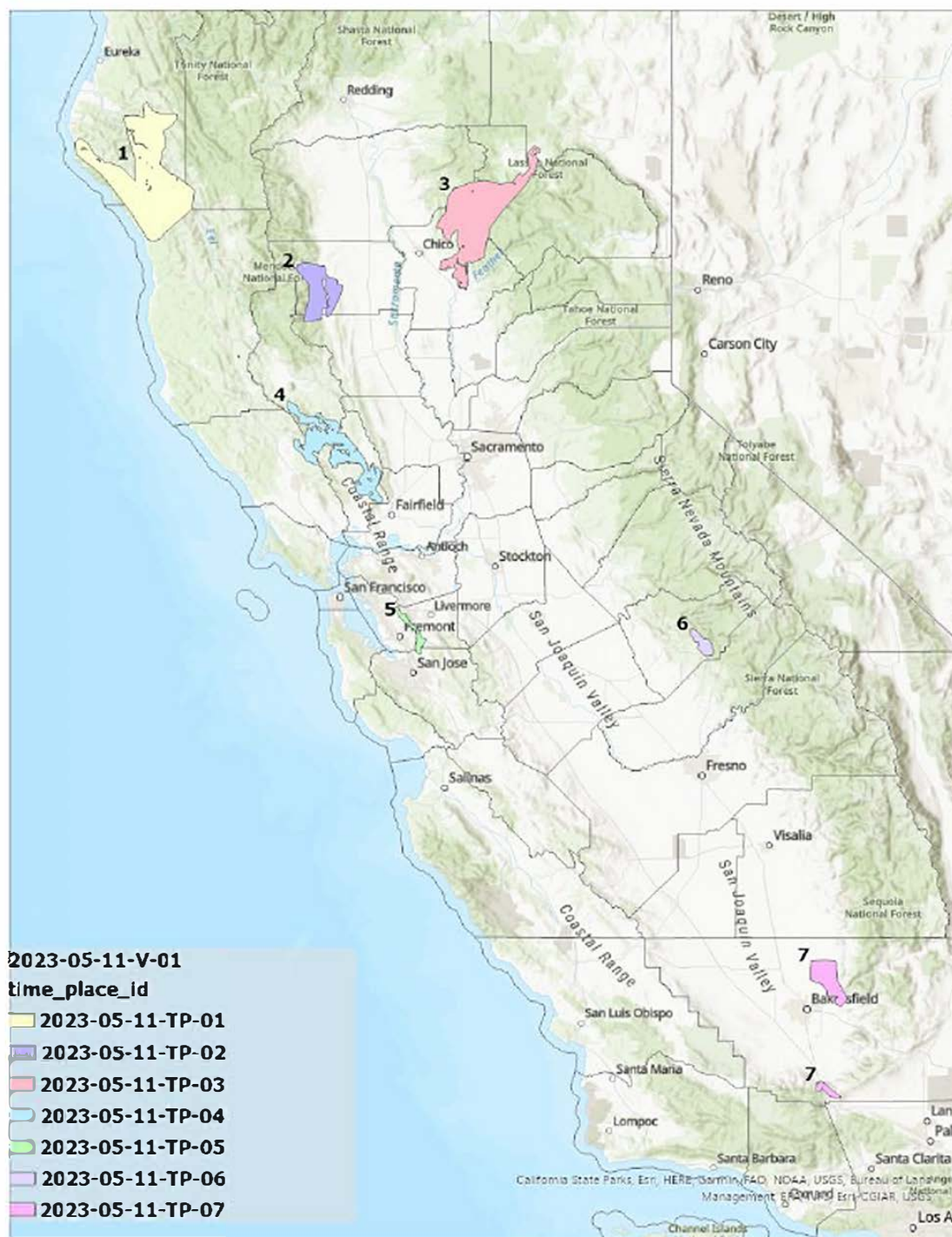


Figure 1. By Counties

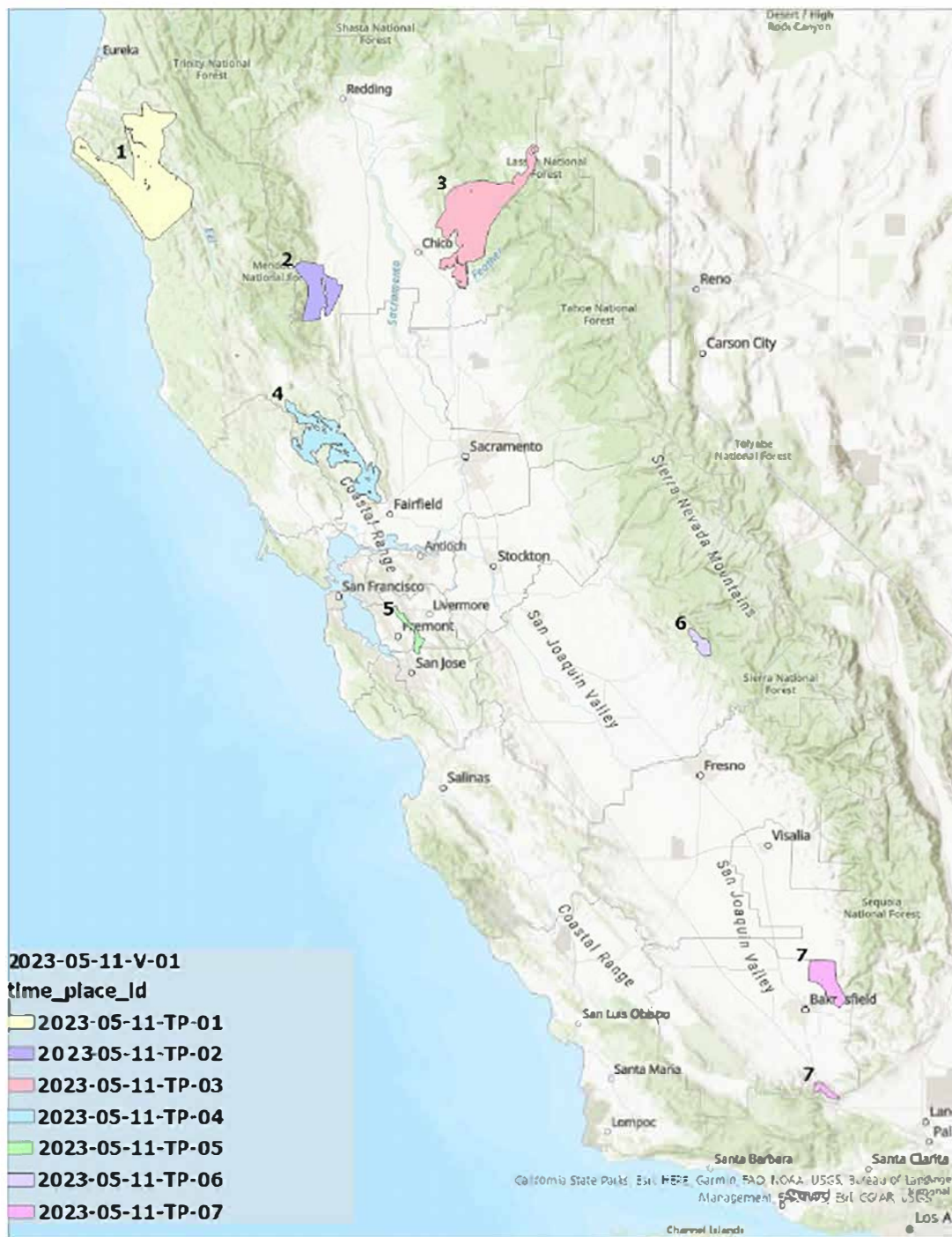


Figure 2. By Divisions



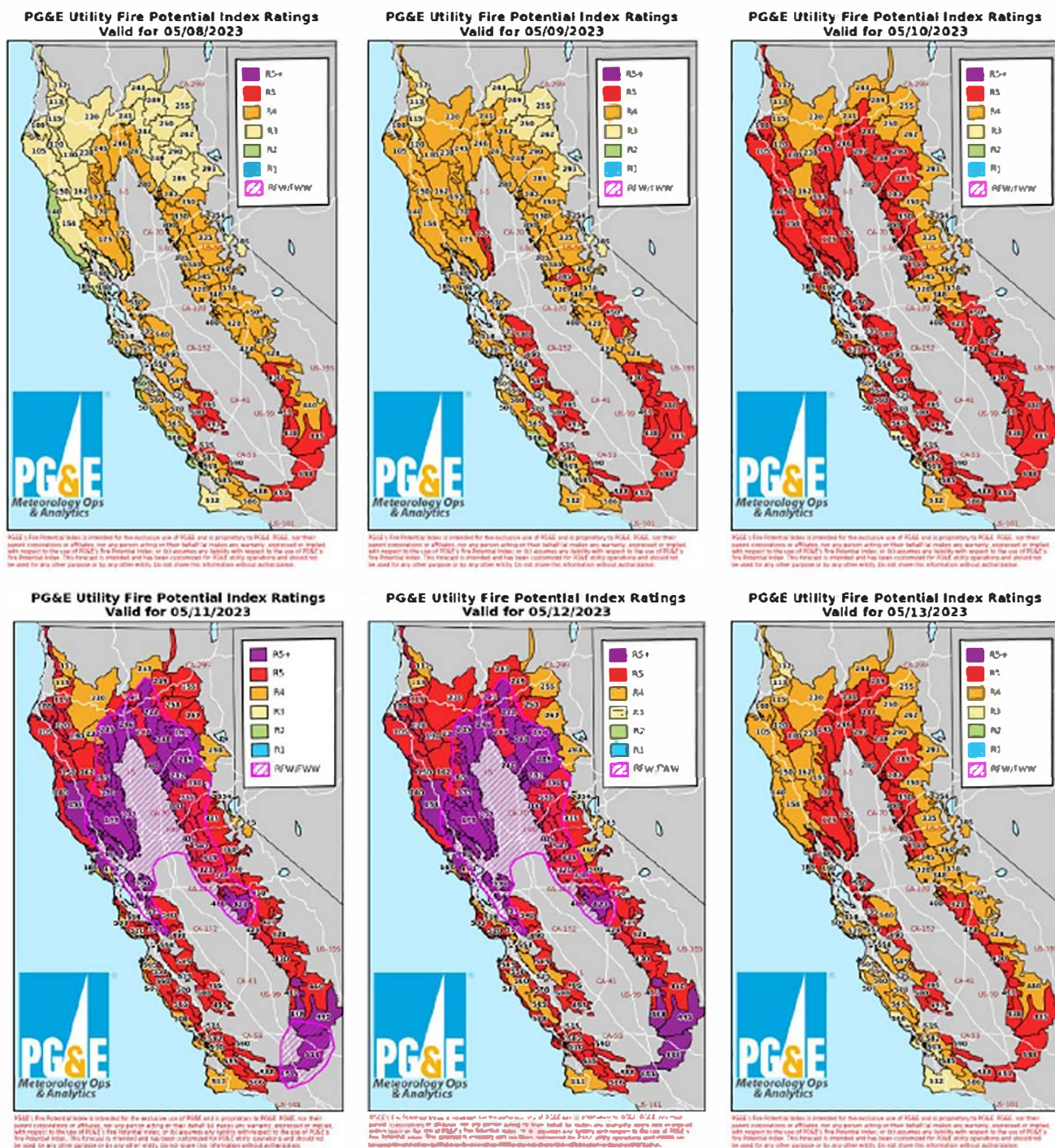


Figure 3. Fire Potential Index (FPI)  
Maps

## PARTICIPANT ROLES AND RESPONSIBILITIES

Several types of participants are involved in this exercise. Note that the term “participant” refers to all the categories listed below, not just those playing in the exercise:

- **Players.** Players are personnel who perform their regular roles and responsibilities during the exercise. Players initiate actions in response to the simulated emergency. **Players will not speak to observers during the exercise. Refer all observer questions to the observer's point of contact (POC).**
- **Controllers.** Controllers plan and manage exercise play. Controllers direct the pace of the exercise, provide key data to players, and may prompt or initiate certain player actions to ensure exercise continuity. Controllers may check in with players more frequently to capture key actions taken.
- **Simulators.** Simulators role play nonparticipating organizations or individuals. They operate out of the Simulation Cell (SimCell). Simulators function semi-independently under the supervision of a SimCell manager, enacting roles (e.g., media reporters, customers, or partnering agencies) in accordance with instructions provided in the Master Scenario Events List (MSEL). All simulators are ultimately accountable to the Exercise Director and Lead Controller.
- **Evaluators.** Evaluators observe, document, and analyze performance against exercise objectives in accordance with the Exercise Evaluation Guides (EEGs).
- **Observers.** Observers view the exercise and 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 MS Microsoft Teams IT support tasks during the exercise, e.g., registration, moderating, and others.

## EXERCISE ASSUMPTIONS AND ARTIFICIALITIES

In any exercise, assumptions and artificialities may be necessary to complete exercise play in the time allotted and/or account for logistical limitations. Exercise participants should accept that assumptions and artificialities are inherent in any exercise and should not allow these considerations to negatively impact their participation.

### ASSUMPTIONS

Assumptions constitute the implied factual foundation for the exercise and, as such, are assumed to be present before the exercise starts.

The following general assumptions apply to the exercise:



- The exercise will be conducted in a no-fault environment wherein 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 players may need to balance exercise play with real-world emergencies. If they occur, real-world emergencies take priority.

## ARTIFICIALITIES

Artificialities are exercise limitations which could detract from exercise realism that participants should be aware of. During this exercise, the following artificialities apply:

- Exercise communication and coordination is limited to participating exercise organizations, and venues, listed in the Exercise Phone Book.
- The SimCell will simulate nonparticipating entities or organizations. Exercise simulation will be realistic and plausible and will contain enough detail from which Players can respond.
- Players should log in to Teams a few minutes before **STARTEX** and **RESUMEEX** 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.



## EXERCISE RULES AND GUIDANCE

### EXERCISE TERMINOLOGY AND 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 organization 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

- RESUMEEX is 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

### PLAYER INSTRUCTIONS

Exercise play will proceed in accordance with established plans and procedures. The exercise will conclude once time has run out or upon the completion of operations and the exercise objectives as determined by the Exercise Director or Lead Controller.

The following general rules govern exercise play:

- ALL communications, to include emails, phone calls, and text messages, will be marked ***“THIS IS AN EXERCISE”*** or ***“EXERCISE EXERCISE EXERCISE”***. Meetings may be book ended with such statements.
- Players should join the MS Teams Meeting Invite at StartEx and operate as they normally would when activated.
- Players participating in-person will report to the Vacaville Emergency Response Center.
- The Lead Controller will initiate exercise play by transmitting the StartEx message in the Exercise Environment and to all Controllers in the MS Teams Exercise Controller Evaluator Cell Channel. Announcements will be made in the VERC for those participating in-person.





- Players **will not** send communications to departments and agencies that are not participating in the exercise and should direct those inquiries to the SimCell. All participating departments, agencies, and external partners are listed in the Exercise Phone Book.
- Players placing telephone calls to the SimCell must identify the organization, agency, office, or individual with whom they wish to speak.
- The Exercise Director or Lead Controller will announce any exercise suspension or termination and will instruct participants to stop-in-place safely.
- Players will comply with real-world response procedures unless otherwise directed by Controllers.
  - If an actual emergency occurs, the exercise may be suspended or terminated at the discretion of the Exercise Director, depending on the nature of the incident.
  - The Exercise Director or Lead Controller will announce restart of the exercise once the emergency or situation has been resolved.

## PLAYER BRIEFING

Players will attend Player Briefings and Lead Functional Area Controllers have discretion to provide exercise participants with briefings before or after exercise conduct (See Table 1. Exercise Schedule). Exercise handouts or other materials may also be provided to orient players with the exercise.

## PLAYER COMMUNICATIONS

Players will use existing and routine PG&E communication systems. The need to maintain capability for a real-world response may preclude the use of certain communication channels or systems that would usually be available for an actual emergency incident. **In no instance will exercise communication interfere with real-world emergency communications.** The primary means of communication between Players is via telephone and email. An Exercise Phone Book will be distributed prior to the exercise with a list of key telephone numbers and emails relevant to the exercise.

## CONTROLLER/EVALUATOR/SIMULATOR COMMUNICATIONS

The principal method of information transfer for Controllers during the exercise is via a MS Teams Channel. Controllers, Evaluators, and Simulators will receive an invitation as a member to an exercise MS Teams Channel and must ensure they are able to log in which will enable access to the Teams channel. The controller communications network allows the Exercise Director and SimCell Manager to make and announce universal changes in exercise documentation, such as changes to



the MSEL, inject release, etc. Controller communications will link control personnel at all exercise areas and will remain separate from player communications. In no case will controller communications interfere with, or override, player communications. Additionally, a central meeting point (titled “CES Bridge Line”) will be available via MS Teams to facilitate group meetings and discussions.

## **SIMCELL COMMUNICATIONS**

The primary means of communication between the SimCell and Players is via MS Teams, telephone, and email. An Exercise Phone Book will be distributed prior to the exercise with a list of key telephone numbers and emails relevant to the exercise.

Players should contact the SimCell via telephone or email to:

- Ask clarifying questions about an inject
- Provide information requested by an inject
- Contact a non-participating organization, department, or individual

When contacting the SimCell:

- Reference the Exercise Phone Book for the appropriate contact numbers
- Clarify the organization, department, and/or individual you would like to contact



## EXERCISE SCHEDULE AND LOCATIONS

Table 1. MS Teams Exercise Environment Schedule and Participant Location

Activity	Day 1	Day 2-3	Day 4	Meeting Link Location	Who attends?
C/E/S Daily Brief and Bridge Line	0545 RP (Virtual) 1230 EOC (A)	0545	0545	—	C/E/S only
Sim Cell	0600-1800	0600-1800	0600-1600	—	C/E/S only
*STARTEX Opening Brief	0600 RP 1300 EOC (A)	—	—	██████████ ██████████	All
Exercise Play (WL)	0600-1800	0600-1800	0600-1600	EOC Sections Meeting Invites Emergency Coordination Center Meeting Invites	All
Morning Shift Transitions	—	0615	0615	EOC Sections Meeting Invites	P, O, C/E
*PAUSEEX	1800	1800	—	██████████ ██████████	All
*RESUMEEX	—	0600	0600	██████████ ██████████	All
C/E/S Debrief	1745	1745	1545	██████████ ██████████	C/E/S only
Evening Shift Transitions	1745	1745	1545	EOC Sections Meeting Invites	P, O, C/E
ENDEX	—	—	1600	—	All
*Player Hotwash	—	—	1615	██████████ ██████████	All
WL=Working Lunch	RP=Readiness Posture EOC (A) = Activation		*NOTE: StartEx, PauseEx, ResumEx, and Hotwash are all the same link and titled "internal player invite" once opened. This is the Main EOC floor.		C/E/S=Controller Evaluator Simulator P= Player O=Observer



## EMERGENCY OR COORDINATION CENTERS

Table 2. Emergency or Coordination Center and Corresponding Functional Areas

Functional Areas	Emergency or Coordination Center	Functional Exercise Status
Customer Care	CCECC	Staffed-Players
Operations	OECs	Simulated
	REC	Simulated
	GCC/ETEC	Staffed-Players
	STOEC (Substation/T-Line)	Simulated
	EDEC	Staffed-Players
IT	ITCC/ENOC	Staffed-Players
Logistics	MTCC	Simulated
Planning	HAWC	Staffed-Players
Facilities	FCC	Staffed-Players

## SYSTEM OPERATIONS

System Operations and/or their corresponding QA Sandbox test environment(s) will be made available during exercise play. It is the responsibility of the FA/Partner to provide access to the QA environment that is needed for exercise play and injects.

Table 3. System Operations

Owner	System	QA/Live/Simulated	Purpose
<b>PSPS Technology</b>	PSPS Viewer	QA	Used to develop playbooks, customer impact lists, customer notification files, transmission lists
	PSPS Portal	Live	Provides PSPS impact visibility to approved SLTT and externals
	PSPS Foundry	Live	
<b>Customer Care</b>	On-Track Tool	Simulated	Used to track door knock status complete/incomplete
<b>Operations</b>	Outage Management Tool (OMT)	QA	Electric outage monitoring and mitigation
<b>HAWC</b>	SIPT Viewer (Field Observation Dashboard)	Simulated	Aggregates real-time field observations from SIPT crews
	Live Incident Dashboard	Simulated	Intelligence and monitoring Situational Awareness
<b>Resource Unit</b>	ARCOS	QA	Resource tracking



## SYSTEM COMMUNICATIONS AND NOTIFICATIONS

System Communications and/or their corresponding QA Sandbox test environments will be made available during exercise play. It is the responsibility of the Functional Area/Partner to provide access to the QA environment that is needed for exercise play and injects.

Table 4. System Communications and Notifications

Owner	System	QA/Live/Simulated	Purpose
EP&R	Everbridge	QA	Emergency mass notifications
Liaison	Quorum	Simulated	Backup notification system
Customer	Message Broadcast	Simulated	Primary notification system Will develop message but simulate delivery
Customer	Broadnet	Live	Backup notification system





## SAFETY

Safety is an integral part of the exercise process, and a responsibility of all participating organizations to conduct an exercise of this magnitude as safely as possible.

### GENERAL

Exercise participant safety takes priority over exercise events. Although the organizations involved in this exercise come from various functional areas, they share the basic responsibility for ensuring a safe environment for all personnel involved in the exercise. Professional health and safety ethics should guide all participants to operate in their assigned roles in the safest manner possible. The following general requirements apply to the exercise:

- Participants will be responsible for their own and each other's safety during the exercise. It is the responsibility of everyone associated with the exercise to stop play if, in their opinion, a real safety problem exists. Once the problem is corrected, exercise play can resume.
- All organizations will comply with their respective environmental, health, and safety plans and procedures, as well as the appropriate federal, state, and local environmental health and safety regulations.

### ACCIDENT REPORTING AND REAL EMERGENCIES

For an emergency that requires assistance, the phrase to use is ***"Real-World Emergency."*** The following procedures should be used in case of a real emergency during the exercise:

- Anyone made aware of a participant who is ill or injured will first advise a Controller. For all major accidents or injuries, call 911. If there is an unsafe situation, stop activity.
- The Controller who is made aware of a real emergency will initiate the broadcast ***"Real-World Emergency"*** in the SimCell virtual breakout channel, providing the following information to the Lead Controller and Exercise Director:
  - Venue/function
  - Location within the venue/function
  - Condition
  - Requirements
- The SimCell will be notified as soon as possible if a real emergency occurs. The SimCell may halt all injects as determined by the Sim Cell Manager.
- If the nature of the emergency requires a suspension of the exercise at the








venue/function, all exercise activities at that facility will immediately cease. Exercise play may resume at that venue/function once the situation has been addressed.

- Exercise play at other venues/functions should not cease if one venue/function has declared a ***“Real-World Emergency”*** unless directed by the Lead Controller.
- If a real emergency occurs that affects the entire exercise, the exercise may be suspended or terminated at the discretion of the Exercise Director. The notification will be made from the SimCell.

## VIRTUAL LOGISTICS AND RULES OF BEHAVIOR

The exercise will be held virtually in the Microsoft (MS) Teams Exercise Environment. The MS Teams Exercise Environment is designed in a layout like the MS Teams Virtual EOC site to accommodate activities for each EOC section. All participants will be required to use both audio and video via MS Teams to communicate with one another. The various channels represent the sections of the EOC during an activation. A few others have been added for exercise control and design.

Figure 3. Exercise Environment and Virtual EOC (illustrative)

T Exercise Environment	T Virtual EOC
<div></div> <div>Exercise Environment</div> <div>...</div> <div>General</div> <div>Exercise Command Chat</div> <div>Exercise Customer Strategy Chat</div> <div>Exercise Demobilization Unit Chat</div> <div>Exercise EOC Main Floor Chat</div> <div>Exercise Finance Admin Chat</div> <div>Exercise Intelligence and Investigation Chat</div> <div>Exercise Liaison Chat</div> <div>Exercise Logistic Chat</div> <div>Exercise Operations Chat</div> <div>Exercise PIO Chat</div> <div>Exercise Planning Section Chat</div> <div>Exercise REC and OEC Chat</div> <div>Exercise Safety Chat</div> <div>Exercise Temp Gen Chat</div> <div>Restricted Exercise Controller Evaluator ... </div> <div>Restricted Exercise Planners </div> <div>Restricted Exercise Sim Cell </div> <div>Tech Exercise Support and File Share</div>	<div></div> <div>Virtual EOC</div> <div>...</div> <div>General</div> <div>Command</div> <div>Customer Strategy</div> <div>EOC Main Floor</div> <div><b>Finance and Admin</b></div> <div><b>ICS 214 - Activity Log</b></div> <div>Liaison</div> <div>Logistics</div> <div>Operations</div> <div><b>PIO</b></div> <div><b>Planning</b></div> <div>7 hidden channels</div>

## MS TEAMS SITE EXERCISE ENVIRONMENT USE AND ACCESS

The following is a use and access guide for each type of participant, both internal and external. Depending on the participant's role and if they have a LAN ID will determine the level of access they will have and the ability to engage in the exercise.

Table 5. Exercise Environment Use and Access for Members and Guests

Use and Access for Members and Guests		
	Internal Participants	External Participants
<b>Role</b>	CES, Players, Observers are the role(s) in the exercise.	CES, Players, Observers are the role(s) in the exercise.
<b>Access</b>	CES, Players, Observers with LAN ID will have Member access.	CES, Players, Observers without a LAN ID will have Guest access.
<b>Functionality</b>	<p>Members have full functionality in MS Teams to:</p> <ul style="list-style-type: none"> <li>• Access chat via meeting link</li> <li>• Share content via chat in channels</li> <li>• Edit messages</li> </ul> <p>Members shall not:</p> <ul style="list-style-type: none"> <li>• Create private channels</li> <li>• Store exercise collateral in channels</li> <li>• Delete and restore channels</li> <li>• Add, remove, upload apps</li> <li>• Delete messages</li> </ul>	<p>CES, Players, Observers can join MS Teams meetings by dialing in or using a meeting link.</p> <p>CES, Players, Observers have limited functionality but can view presentations and chat via meeting link.</p>
	<p>Internal and External Observers shall not:</p> <ul style="list-style-type: none"> <li>• Engage in conversation</li> <li>• Use the chat feature during the exercise</li> </ul>	



## MS TEAMS MEETINGS

- Players can use all the features associated with an MS Teams Meeting.
- Teams Meetings are designed to reopen at any time. The chat should also be available as well for those who were added to the meeting.

## CHATS

- All meetings should occur with chat enabled.
- Chats outside of MS Teams Site are not allowed during an exercise.

## TEAMS SITE RULES OF ENGAGEMENT AND BEST PRACTICE

Table 6. Exercise Environment Rules of Engagement and Best Practice

Rules of Engagement	Best Practices
<p>The MS Teams Exercise Environment allows for communications through meeting invites. Please observe the following rules of engagement:</p> <p>Remember to mute your MS Teams audio when not speaking.</p> <ul style="list-style-type: none"> <li>• <b>UNMUTE</b> yourself to speak.</li> <li>• <b>VERIFY</b> your computer sound is muted if you called in from a phone to prevent feedback when speaking.</li> <li>• <b>USE</b> the hand raise tool to get the presenter's attention.</li> <li>• Do <b>not</b> interrupt when others are speaking.</li> <li>• <b>ENSURE</b> you select "Leave" to exit the meeting space upon departure to avoid any confusion about your status in the call should an emergency at your site occur.</li> <li>• Treat the Exercise Environment as the Virtual EOC, meaning if you would normally have a conversation face-to-face, try finding the person you need to speak with in the appropriate meeting.</li> </ul> <p>Reach out to Exercise control staff for any MS Teams technical issues by email or MS Teams chat.</p>	<p>MS Teams is designed for Internet audio. For the best sound and convenience, Teams joins directly from the application over the Internet.</p> <p><b>IF</b> you must use phone service (e.g., those with poor bandwidth), please <b>manually call</b> into the meeting to join; do <b>NOT</b> use the Call Me feature.</p> <p>For the <b>best sound quality</b> and <b>most cost-effective options</b>, please only use the following preferred choices to join Teams meetings:</p> <ol style="list-style-type: none"> <li>1. <b>DIAL</b> the phone number presented in the meeting invite and enter the Conference ID # presented when prompted.  <b>IF</b> you have a headset for your laptop or are able to use your computer's speaker and microphone:</li> <li>2. <b>OPEN</b> the Teams application on your computer, click the Calendar icon on the left navigation bar, click your meeting invite, and then click the Join button.</li> <li>3. If you're not in front of a computer to use the Teams desktop or web application, try using your Teams mobile app on your iPhone instead:</li> <li>4. <b>OPEN</b> the Teams mobile app, <b>CLICK</b> the Calendar icon on the bottom of your screen, and then <b>CLICK</b> the <b>Join</b> button associated with your meeting.</li> </ol>



## EXERCISE SUPPORT OVERVIEW

### EXERCISE CONTROL TEAM STRUCTURE

The exercise staff structure is the framework that allows exercise staff to communicate and coordinate across exercise venues, including the Simulation Cell (SimCell), to deliver and track exercise information. The staff structure for this exercise is shown below:

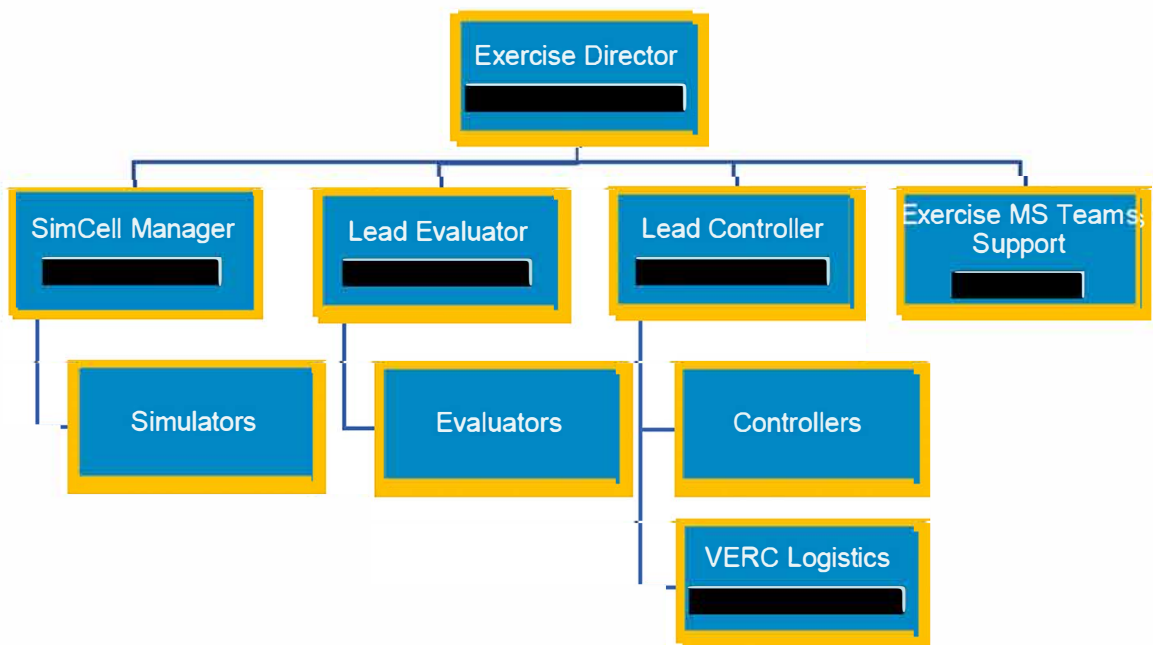


Figure 5. Exercise Control Team Structure



## EXERCISE SUPPORT STAFF RESPONSIBILITIES

### EXERCISE DIRECTOR

- Oversees all exercise functions.
- Remains in close contact with the Lead Controller throughout exercise play.
- Oversees setup and cleanup of the exercise and positioning of Controllers and Evaluators.

### LEAD CONTROLLER

- Monitors exercise progress (i.e., that player activities are progressing as expected) and coordinates decisions regarding deviation or significant changes to the scenario.
- Coordinates Controllers in the virtual EOC and at off-site exercise locations.
- Ensures implementation of all designated and modified actions at the appropriate time.
- Debriefs Controllers and Evaluators after the exercise.
- Oversees exercise setup and takedown.

### LEAD EVALUATOR

- Coordinates all evaluator activities and addresses evaluator questions and issues.
- Observes and documents strategic-level player actions, decisions, and discussions.
- Leads daily C/E/S huddles after exercise play.
- Leads development of After-Action Report (AAR).

### SIMCELL MANAGER

- Coordinates Simulators to ensure all injects are delivered and closed out.
- Remains in close contact with the Lead Controller throughout exercise play.
- Monitors exercise progress and coordinates with Lead Controller on decisions regarding deviation or significant changes to the scenario.
- Monitors the exercise timeline.



## EXERCISE MS TEAMS SUPPORT

- Provides support to exercise design team and all participants.
- Manages virtual exercise environment, communication, and documentation related to exercise planning and conduct.
- Scribes for hotwash.

## VERC LOGISTICS SUPPORT

- Provides logistical support for EOC (VERC)
- Provides support to Liaison with Observers at the VERC
- Communicates and supports VERC Security
- Maintains food and beverage supplies
- Maintains communication and works with Tech and Facilities

## EXERCISE EVALUATION

The goal of exercise evaluation is to validate strengths and identify improvement opportunities for PG&E's response and recovery efforts for a PSPS based on findings and observations from the full-scale exercise. Evaluation aims to determine PG&E's capabilities regarding the exercise and Functional Area objectives, and to validate and improve the CERP, PSPS Annex, and Functional Area-specific plans, policies, and procedures, as well as all associated plans, procedures, and protocols of other participating organizations. Evaluation looks at the response as a whole and not individual players.

Evaluation attempts to answer the following questions:

- Were established plans, procedures, and protocols followed during the exercise?
- Did the groups/organizations do what they said they were going to do?
- Were the plans, procedures, and protocols effective?
- What level of capability do the plans, policies, and procedures establish?

The Evaluation attempts to answer the questions by:

- Observing the event and collecting supporting data (via EEGs submissions, Participant Feedback, and Hotwashes).
- Analyzing the data to compare performance against expected outcomes.
- Determining what changes need to be made to the procedures, plans, staffing, equipment, communications, organizations, and interagency coordination to ensure expected outcomes.

## EXERCISE EVALUATION PROCESS

Exercise evaluation will be based upon an assessment of virtual performance. The following documents and performance rating system provide the foundation for evaluating the PSPS Functional Exercise.

### EXERCISE EVALUATION GUIDES (EEGs)

The Exercise Evaluation Guides will be the primary document for Evaluators to use to capture the performance of the exercise, looking at the actions taken by each FA and EOC Sections and positions. Evaluators will note completion of their specific objectives and critical tasks based on exercise play and responses to injects.

## AFTER-ACTION REPORT

The After-Action Report (AAR) will reflect the performance from the exercise series in a single AAR at the end of the exercise. The report will be organized by exercise objectives and core capabilities. The evaluation team will also provide EOC section-specific analysis to include best practices and areas for improvement. All exercise support staff (including Controllers, Planners, Simulators, and Evaluators) will identify specific observations and issues (as well as recommendations for resolving them). The AAR includes corrective actions and an improvement plan to enhance emergency response processes and other company plans, policies, and procedures, personnel training, and future performance in exercises and activations.

During exercise conduct, Evaluators' main goal is to collect data that will inform the final exercise evaluation documents. EEGs are the main documents that facilitate this process.

During the exercise, Evaluators should not interact with Players in such a way that interferes with Player performance and/or results in prompting Players regarding what a specific response should be. Evaluators should generally avoid personal conversations with any Player. Evaluators should not give information to the Players regarding event progress or resolution of problems encountered by others. Players are expected to obtain information through their own resources.

## TYPES OF OBSERVATIONS

The Exercise Design Team will prepare the AAR and analyze the results provided by all Evaluators to develop accurate representation of the exercised plans and capabilities. Their analysis will focus on the timing of key events, decisions made, and actions taken. Potential areas you should focus on to assist in that analysis include the following:

- Timeliness of actions.
- Communication among Players and organizations.
- Command and control, including direction and coordination of field activities.
- Monitoring and assessing events.
- Creative player problem solving, potentially beyond current plans and procedures.
- Plans or procedures that affect Player efforts.
- Direction and coordination of activities.
- Application of identified plans and policies.
- Equipment and technology issues in relation to Player efforts.



## PLACEMENT AND MONITORING

Evaluators should be positioned in their respective EOC sections and meetings so they can monitor Player actions in the chat window and hear conversations without interfering with those activities. Certain conditions may warrant more than one evaluator in a setting or area.

## ANALYSIS

Following exercise conduct, EOC Section Evaluators will use the data they collected (using their EEGs) to provide deeper analysis after having observed all of exercise conduct.



## ACRONYMS

This acronym list is a combination of commonly used terms by this document, PG&E and FEMA.

AAR	After-Action Report
C/E/S	Controller/Evaluator/Simulator
CalOES	California Governor's Office of Emergency Services
CCECC	Customer Contact Emergency Coordination Center
CERP	Company Emergency Response Plan
CFILC	California Foundation for Independent Living Centers
CPUC	California Public Utilities Commission
CRESS	Corporate Real Estate Strategy and Services
CSO	Customer Strategy Officer
CWSP	Community Wildfire Safety Program
DCC	Distribution Control Center
DSO	Distribution System Operations
EDEC	Electric Distribution Emergency Center
EEG	Exercise Evaluation Guide
EndEx	End of Exercise
EOC	Emergency Operations Center
EP&R	Emergency Preparedness and Response
ETEC	Electric Transmission Emergency Center
ExPlan	Exercise Plan
FA	Functional Area
FAQ	Frequently Asked Question
FCC	Facility Coordination Center
FE	Functional Exercise
FEMA	Federal Emergency Management Agency
FIA	Fire Index Areas
FIN	Finance & Administration Section
FSE	Full Scale Exercise
GCC	Grid Control Center
HAWC	Hazard Awareness and Warning Center
HRCC	Human Resources Coordination Center
HSEEP	Homeland Security Exercise and Evaluation Program
I&I	Intelligence & Investigation Section
ICS	Incident Command System
ITCC	Information Technology Coordination Center
LNO	Liaison Officer
LOG	Logistics Section



MSEL	Master Scenario Events List
MTCC	Materials and Transportation Coordination Center
OIC	Officer-in-Charge
OPS	Operations Section
PauseEx	Pause Exercise
PG&E	Pacific Gas & Electric
PIO	Public Information Officer
PLANS	Planning Section
PMO	Project Management Office
PSPS	Public Safety Power Shutoff
QLR	Quick Look Report
QRG	Quick Reference Guide
REC	Regional Emergency Center
ResumeEx	Resume Exercise
SimCell	Simulation Cell
SIPT	Safety and Infrastructure Protection Teams
SLTT	State, Local, Tribal, and Territorial
SO	Safety Officer
SOPP	Storm Outage Prediction Project