



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

May 8-11, 2023

## After-Action Report (AAR)





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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 Vacaville Emergency Response Center (VERC))	
<b>Scope</b>	The FE simulated 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 challenged 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><b>1. Planning</b></li><li><b>2. Operational Coordination and Communication</b></li><li><b>3. Public Information and Warning</b></li><li><b>4. Situational Awareness</b></li><li><b>5. Critical Resources</b></li><li><b>6. 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>██████████</div> EP&R Pacific Gas and Electric <div>██████████</div> <div>████████████████████</div>	<div>██████████</div> EP&R Pacific Gas and Electric <div>██████████</div> <div>████████████████████</div>

## EXERCISE DESIGN AND PARTICIPATION

The 2023 PSPS FE was designed to test six exercise objectives aligned to PG&E's core capabilities.

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 — 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.



## EXERCISE SCENARIO

PG&E Meteorology is tracking variable weather conditions. A dry, offshore wind event developed 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 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 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.



## PG&E EXTENT OF PLAY

PG&E conducted the FE as a four-day event on May 8-11, 2023, with Readiness Posture beginning on Monday, May 8, 2023, with specified on-call EOC Readiness positions. Exercise play continued with an EOC activation at 1300 on Monday, May 8, 2023. A pause of exercise (Pause-Ex) at 1800 occurred every day and resumption of exercise (Resume-Ex) every day at 0600 with the last day End of Exercise (End-Ex) at 1600 on May 11, 2023, followed by the Player Hotwash.

The FE exercised the procedures to mitigate a PSPS Event impacting the North Coast, North Valley/Sierra, Bay Area, South Bay/Central Coast, and Central Valley Regions of the PG&E Service Territory. Command and General Staff were in person at the Vacaville Emergency Response Center (VERC), all others remained virtual with no patrol and restoration phase nor field components as expected in a functional exercise. The patrol and restoration phase were conducted in the tabletop exercise on June 14, 2023, as well as individual field division exercises throughout quarters 2 and 3 2023.

This exercise included members of On-Call Emergency Operations Center, Regional Emergency Centers, and Operations Emergency Centers, participants from other local and Functional Area-specific emergency centers as well as Local, County, State Public Safety Partners, Access and Functional Needs agencies, Community Based Organizations, Transmission, and Telecommunications partners.

## EVALUATION METHODOLOGY

The exercise evaluation team assessed PG&E's performance using a system based on the Federal Emergency Management Agency (FEMA) Homeland Security Exercise and Evaluation Program (HSEEP) methodology.<sup>1</sup>

Evaluators observed exercise conduct to collect relevant data, assess performance, identify the underlying root cause of challenges, and outline strengths and areas for improvement. Evaluators referenced objectives and associated critical tasks and expected player actions that were identified using the PG&E CERP and PSPS Annex to evaluate each group's ability to successfully address the five exercise objectives that were identified and in accordance with PG&E's core capabilities.

## PLAYER PERFORMANCE

Evaluators assessed group performance using an outcome-oriented process to assess the degree to which PG&E successfully achieved each exercise objective. To assist evaluators, Exercise Evaluation Guides (EEG) included the following:

**Critical Tasks:** For each objective, evaluators used pre-determined *critical tasks*—distinct actions that are necessary to achieve an objective—as the basis for each group's performance assessment.

<sup>1</sup> <https://www.fema.gov/sites/default/files/2020-04/Homeland-Security-Exercise-and-Evaluation-Program-Doctrine-2020-Revision-2-2-25.pdf>





**Root Cause Analysis:** Evaluators were prompted to identify, where possible, the underlying cause of challenges, specifically whether they stemmed from issues around plans, policies, or procedures; organizational structure; training, drills, experience; and/or resources.

PG&E evaluated players in groups according to their roles and responsibilities within the ICS structure:

<ul style="list-style-type: none"><li>▪ EOC Commander/Deputy</li><li>▪ Public Information Officer (PIO)</li><li>▪ Liaison Officer (LNO)</li><li>▪ Customer Strategy Officer (CSO)</li><li>▪ Safety Officer (SO)</li></ul>	<ul style="list-style-type: none"><li>▪ Operations (OPS) Section</li><li>▪ Planning (PLANS) Section</li><li>▪ Logistics (LOG) Section</li><li>▪ Finance &amp; Administration (F&amp;A) Section</li></ul>
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## PERFORMANCE RATING SYSTEM

PG&E uses a rating system to evaluate exercise play. Evaluators provided outcome-focused ratings based on their observations throughout the exercise. The evaluation team analyzed all evaluation materials to provide context to outcomes and identify critical insights across the response enterprise, and ultimately inform improvement planning.

Table 2: PG&E Exercise Performance Rating System

Rating	Criteria
Performed	Exercise objective performed without challenges. <ul style="list-style-type: none"><li>▪ Comprehensively demonstrated compliance with established policies, plans, and procedures.</li></ul>
Performed with Challenges	Exercise objective performed adequately, but with challenges. <ul style="list-style-type: none"><li>▪ Some aspects of exercise objective were done incorrectly or were not demonstrated.</li><li>▪ Plans, policies, and procedures were followed, but with some degree of difficulty.</li><li>▪ Challenges may have impacted the team’s overall ability to perform their mission.</li></ul>
Not Performed	Exercise objective was unable to be performed.



**Table 3** illustrates the overall performance of objectives by the exercise participants. A complete performance analysis by Section is contained in Appendix D.

**Table 3: PSPS FE Overall Performance Rating**

Objective	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning		X		
Operational Coordination and Communication		X		
Public Information and Warning		X		
Situational Awareness		X		
Critical Resources		X		
Cultural and Natural Resources	X			

## ANALYSIS OF CORE CAPABILITIES

This report presents evaluation outcomes and analysis from the PSPS and Wildfire FSE organized by strengths and areas for improvement. Evaluators focused on strategic-level observations of performance of critical tasks as well as PG&E's ability to successfully manage the event.

The following provides an analysis of the top findings for strengths and areas for improvement in PSPS and/or Wildfire risk reduction and electric service restoration measures carried out in relation to FSE emergency preparedness core capabilities and exercise objectives. A comprehensive Improvement Plan may be found in Appendix A.

### CORE CAPABILITY 1: PLANNING

#### Objective 1

Implement a planning cycle according to CERP procedures, PSPS Annex, and Incident Command System (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.

#### Strengths

Pre-existing plans, strategies, and tactics for execution of PSPS events is in a state of maturity. The Company Emergency Response Plan (CERP) and PSPS Annex have now undergone several years of refinement based on lessons learned, reducing the frequency and scope of PSPS events to a minimum. A significant degree of muscle memory and practical experience among the team is evident and is a recurring theme in hot wash and Exercise Evaluation Guide entries.

#### Areas for improvement

A lack of clarity on compliance requirements related to PSPS events is evident. Such requirements may be perceived, actual, or self-initiated. The root cause appears to be the lack of a single resource or repository that places all PSPS compliance requirements in one comprehensive database.

### CORE CAPABILITY 2: OPERATIONAL COORDINATION AND COMMUNICATION

#### Objective 2

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 and external priorities to safely manage the PSPS event.



### Strengths

Communication and coordination between Electric Distribution (EDEC) and Electric Transmission (ETEC) was seamless, reducing processing time and risk of error regarding playbook production to the lowest possible denominator.

### Areas for Improvement

A perceived lack of alignment led to confusion on Playbook D numbering (the sequence began with D-02 instead of D-01). The PSPS PMO Director clarified that the numbering sequence is based on the run of the weather report and beginning the sequence with D-02 was correct. There is an opportunity to further standardize the naming convention on all PSPS Playbooks, thereby reducing the potential for confusion and errors.

## CORE CAPABILITY 3: PUBLIC INFORMATION AND WARNING

### Objective 3

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 the California Governor's Office of Emergency Services (Cal OES), California Public Utilities Commission (CPUC), and other regulatory bodies.

### Strengths

The Communications Drill was performed using emails and Broadnet voice messages to external observers. These included Advance, Watch 1, Watch 2, and Warning notifications. All communication sequences relevant to the drill, including Access and Functional Needs (AFN), were executed successfully throughout the FE.

### Areas for Improvement

Inadequate degree of alignment on distinguishing between the process, ownership, and role of the PSPS Communications Huddle as compared to the Joint Information System (JIS). The former is primarily used to coordinate customer notifications while the latter is used more broadly for external communications including social media, talking points, and press releases.

## CORE CAPABILITY 4: SITUATIONAL AWARENESS

### Objective 4

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, and essential, medical baseline, and commercial customers).

### Strengths

The proliferation of technical products, situation reports, and live incident tracking across all hazard types provided by the Hazard Awareness and Warning Center led to an unparalleled level of situational awareness.

### Areas for Improvement

Further training and standardization of process is required to ensure all impacted personnel are proficient in hosting the Operational Area Cooperator and State Executive Briefing calls.

## CORE CAPABILITY 5: CRITICAL RESOURCES

### Objective 5

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.

### Strengths

Coordination between Public Safety Specialists, Liaison, Customer, and Logistics teams led to a seamless experience in developing and opening Community Resource Centers based on approved PSPS playbooks and in coordination with County Authorities Having Jurisdiction (AHJ)

### Areas for Improvement

There is an opportunity to upgrade and streamline Palantir Foundry products to significantly reduce processing times for customer notification scripts as well as playbook development; the processes for both currently take approximately 2 hours each.

## CORE CAPABILITY 6: CULTURAL AND NATURAL RESOURCES

### Objective 6

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.

### Strengths

Liaison Officer and Tribal Group Supervisor were in close coordination to ensure Tribes were effectively supported and had event-specific information (i.e., through Tribal Cooperators Calls).

### Areas for Improvement

N/A- None Reported



## CONCLUSION

During the Functional Exercise on May 8-11, 2023, PG&E and our external partners were able to complete all the objectives of the exercise with success. This was the first time the PSPS exercise was hybrid, having Command and General Staff at the VERC with several external partners including the CPUC also at the VERC. This exercise again proves our strong relationships with our public safety partners, particularly the state, county, and local entities. The exercise was created as a 4-day exercise with day 5 exercised in a tabletop and focusing on investigation and damage documentation.

While the exercise proved to be a success overall, a few areas for improvement have been identified. Many of these are already being addressed with the update and training of the 2023 PSPS Annex that was socialized and exercised on June 14, 2023. However, some of these areas for improvement will require attention to resolve and (where applicable) will be added into PG&E's Corrective Action Program (CAP) for tracking, assignment, and follow up. In addition, there will also be a follow-on seminar on August 29, 2023, to review the updates and communicate to the wider PG&E audience and our public safety partners.



## APPENDIX A: IMPROVEMENT PLAN

Table A1: Improvement Plan

Core Capability	Area for Improvement	Corrective Action	Responsible FA	FA Point of Contact	Start Date	End Date	CAP Needed
Planning	Lack of single source of information regarding compliance requirements; contributor notes that PSPS-centric compliance requirements are found in several places which could lead to errors or lack of alignment.	Consolidate all PSPS-centric compliance requirements into a single database and ensure information is up to date.	Regulatory Affairs	██████████ ██████████	7/24/2023	12/30/2023	Yes





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Core Capability	Area for Improvement	Corrective Action	Responsible FA	FA Point of Contact	Start Date	End Date	CAP Needed
	Lack of role/responsibility clarity for certain obscure roles (contributor cites PSPS Tech Specialist, PSPS Application, and GIS Tech Specialist).	Ensure position specific job aides are created for positions and conduct training/credentialing for key personnel.	EP&R S&E Response	██████ ██████████	7/1/2023	4/30/2024	No; already in progress
Operational Coordination and Communication	Lack of alignment on Playbook numbering sequences (D-01 vs D-02) lead to confusion. Numbering is currently based on the meteorology report.	Already included in PSPS Section 101 Training.  Include in PSPS Seminar (Aug 29, 2023)	PSPS Team  EP&R T&E	██████ ██████  ██████ ██████████ ████████ ██████	7/24/2023	8/29/2023	No



2023 Public Safety Power Shutoff (PSPS)  
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Core Capability	Area for Improvement	Corrective Action	Responsible FA	FA Point of Contact	Start Date	End Date	CAP Needed
	Distribution Asset Health Specialist (DAHS) Scoping - Integration of DAHS tags consume considerable amounts of time by having to add information one time place (TP) at a time.	This has been resolved. As part of the new process design, the Vegetation and Electric Tags are integrated with Meteorology data at the backend. As a result, when Meteorology draws weather polygons/time places, Tag risk is taken into consideration and no manual step is required. This is estimated to save 2 hours per each scoping cycle.	PSPS Team	██████ ██████	Complete	Complete	No
	Lack of affinity between Customer team and Situation Unit caused inaccuracies in External Situation Report.	Conduct focused training with key personnel	Customer EP&R S&E	██████ ██████ ██████ ██████	7/24/2023	12/30/2024	Yes



2023 Public Safety Power Shutoff (PSPS)  
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Core Capability	Area for Improvement	Corrective Action	Responsible FA	FA Point of Contact	Start Date	End Date	CAP Needed
Public Information and Warning	Inadequate degree of alignment on distinguishing between the process, ownership, and role of the PSPS Comms Huddle as compared to the Joint Information System (JIS).	Clarify roles and responsibilities between the PSPS Comms Huddle and the Joint Information System, with focus on instances where both systems may be in place simultaneously.	Customer Strategy  PIO  Regulatory Affairs	██████ ██████  ██████ ██████  ██████ ██████	7/24/2023	12/30/2023	Yes
Situational Awareness	Lack of training and process standardization for Operational Area Cooperator's Calls and State Executive Briefings	Ensure all templates are updated and standardized.  Conduct focused training and certification for personnel who may conduct such briefings	Regulatory Affairs	██████ ██████	7/24/2023	12/30/2023	Yes



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Core Capability	Area for Improvement	Corrective Action	Responsible FA	FA Point of Contact	Start Date	End Date	CAP Needed
Critical Resources	Currently, there is manual work required to review and move files. This takes a lot of time and doesn't utilize resources effectively.	All Clear files for agency notifications have been automated; automated the movement of map files to the emergency web staging area; automated development of the External Situation Report via the automatic creation of the slides related to Community Resource Centers (CRCs) and Community-Based Organizations (CBOs).	PSPS Team	██████ ██████	Complete	Complete	No
Exercise Design	Lack of controller communication, which caused a real PSPS notification to be inadvertently sent to Transmission Customers during an exercise.	Reinforce exercise discipline and ensure that all Players, Controllers, Evaluators, and Simulators are observing all control measures designed to prevent such errors.	EP&R T&E  Customer	██████ ██████  ██████ ██████	07/01/23	08/15/23	No



## APPENDIX B: SECTION-SPECIFIC PERFORMANCE

Following exercise conduct, evaluators completed an Exercise Evaluation Guide (EEG) designed to capture outcome-focused assessments and strategic-level findings for each participating evaluated group. For this Exercise, the evaluation focused on the position's performance, rather than the individual. This appendix highlights these observations and analyzes each team's strengths and areas for improvement.

### EOC COMMANDER & DEPUTY

Table B1: EOC Commander Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources	X			
Natural and Cultural Resources				X



## SAFETY OFFICER

Table B2: Safety Officer Performance Ratings by Core Capability Strengths

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness				X
Critical Resources				X
Natural and Cultural Resources				X

## INFORMATION TECHNOLOGY

Table B3: IT Performance Ratings by Objective

Objective	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning				X
Situational Awareness	X			
Critical Resources				X
Natural and Cultural Resources				X



## LIAISON OFFICER

Table B4: Liaison Officer Performance Ratings by Objective

Objective	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning		X		
Situational Awareness		X		
Critical Resources		X		
Natural and Cultural Resources	X			

## CUSTOMER STRATEGY OFFICER

Table B5: CSO Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning		X		
Operational Coordination and Communication		X		
Public Information and Warning		X		
Situational Awareness	X			
Critical Resources	X			
Natural and Cultural Resources				X



## OPERATIONS SECTION CHIEF & DEPUTY

Table B6: Operations Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources	X			
Natural and Cultural Resources				X

## ELECTRIC DISTRIBUTION BRANCH

Table B7: EDEC Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning				X
Situational Awareness		X		
Critical Resources				X
Natural and Cultural Resources				X





## ELECTRIC TRANSMISSION BRANCH

Table B8: ETEC Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning				X
Situational Awareness		X		
Critical Resources				X
Natural and Cultural Resources				X

## VEGETATION MANAGEMENT BRANCH

Table B9: Vegetation Management Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources				X
Natural and Cultural Resources	X			



## INTELLIGENCE & INVESTIGATION SECTION

Table B10: Intelligence & Investigation Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning				X
Operational Coordination and Communication				X
Public Information and Warning				X
Situational Awareness				X
Critical Resources				X
Natural and Cultural Resources				X

**Note:** The Post-Event damage assessment and investigations performed by the I&I Section were out of scope for this exercise. This function was tested and documented in the 2023 PSPS Tabletop Exercise conducted on June 14th, 2023. A separate After-Action Report will contain that evaluation.



## PLANNING SECTION (DOC, SIT, & RESOURCE UNITS)

Table B11: Planning Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning		X		
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources				X
Natural and Cultural Resources				X

## PLANNING SECTION (PSPS PLANNING)

Table B12: PSPS Planning Section Performance Ratings by Core Capability

Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning		X		
Operational Coordination and Communication	X			
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources	X			
Natural and Cultural Resources				X

## LOGISTICS SECTION

Table B13: Logistics Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning				X
Situational Awareness	X			
Critical Resources				X
Natural and Cultural Resources				X

## FINANCE & ADMINISTRATION SECTION

Table B14: F&A Section Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning	X			
Operational Coordination and Communication	X			
Public Information and Warning				X
Situational Awareness	X			
Critical Resources	X			
Natural and Cultural Resources				X



## HAZARD AWARENESS AND WARNING CENTER

Table B15: HAWC Performance Ratings by Core Capability

Core Capability	Performed	Performed with Challenges	Not Performed	Out of Scope
Planning				X
Operational Coordination and Communication				X
Public Information and Warning	X			
Situational Awareness	X			
Critical Resources				X
Natural and Cultural Resources				X

## APPENDIX C: ACRONYMS AND ABBREVIATIONS

**Table C1: Acronym and Abbreviation List**

Acronym	Definition
AAR	After-Action Report
AAR/IP	After-Action Report/Improvement Plan
ACWA	Association of California Water Agencies
AOBD	Air Operations Branch Director
AREP	Agency Representative
BUG	Backup Generation
C&G	Command and General
CAP	Corrective Action Program
C/E/S	Controller/Evaluator/Simulator
Cal OES	California Governor's Office of Emergency Services
CAL FIRE	California Department of Forestry and Fire Protection
CCECC	Customer Contact Emergency Coordination Center
CEO	Chief Executive Officer
CERP	Company Emergency Response Plan
COVID-19	Coronavirus Disease 2019
CPUC	California Public Utilities Commission
CRC	Customer Resource Center
CRESS	Corporate Real Estate Strategy and Services
CSO	Customer Strategy Officer
DCC	Distribution Coordination Center
DCPP	Diablo Canyon Power Plant
EDEC	Electric Distribution Emergency Center
EEG	Exercise Evaluation Guide
EER	Exercise Evaluation Report
EndEx	End of Exercise
EOC	Emergency Operations Center
EP&R	Emergency Preparedness and Response
ETEC	Electric Transmission Emergency Center
ETOR	Estimated Time of Restoration
F&A	Finance and Administration
FAQ	Frequently Asked Questions
FCC	Facility Coordination Center
FEMA	Federal Emergency Management Agency
FIA	Fire Index Area
FPI	Fire Potential Index
FSE	Full-Scale Exercise
FSS	Field Safety Specialist
GCC	Grid Control Center
GIS	Geographic Information System



Acronym	Definition
HAWC	Hazard Awareness and Warning Center
HR	Human Resources
HRCC	Human Resources Coordination Center
HRO	Human Resources Officer
HSEEP	Homeland Security Exercise and Evaluation Program
IAP	Incident Action Plan
ICS	Incident Command System
I&I	Intelligence and Investigations
IMT	Incident Management Team
IT	Information Technology
ITCC	Information Technology Coordination Center
LNO	Liaison Officer
FA	Functional Area
LOG	Logistics
M&C	Marketing and Communications
MBL	Medical Baseline
MTCC	Materials and Transportation Coordination Center
NERC	North American Electric Reliability Corporation
NIMS	National Incident Management System
OEC	Operations Emergency Center
OIC	Officer-in-Charge
OP	Operational Period
OPS	Operations
OSC	Operations Section Chief
PauseEx	Pause of Exercise
PFS	Participant Feedback Survey
PG&E	Pacific Gas and Electric
PGBD	Power Generation Branch Director
PIO	Public Information Officer
PLANS	Planning
PMO	Project Management Office
PO	Purchase Order
ProFlow	Procedural Flow
PSS	Public Safety Specialist
PSPS	Public Safety Power Shutoff
PWDAAC	People with Disabilities and Aging Advisory Council
REC	Regional Emergency Center
RTO	Real-Time Operations
SCADA	Supervisory Control and Data Acquisition
SIPT	Safety and Infrastructure Protection Team
SitRep	Situation Report
SO	Safety Officer



Acronym	Definition
SPID	Service Point Identification
StartEx	Start of Exercise
STOEC	Substation and T-Line Operations Emergency Center
SUB	Substation
TAHS	Transmission Asset Health Specialist
TBRD	Transmission Operations Branch Director
T-Line	Transmission Line
Temp Gen	Temporary Generation
TMG	Temporary Generation Microgrids
TO	Transmission Operations
TSC	Technology Support Center
VERC	Vacaville Emergency Response Center
VGCC	Vacaville Grid Control Center
VM	Vegetation Management





## APPENDIX D: PSPS FE EXTERNAL PARTICIPATION

Several state, local, and community partners observed the PSPS and WF FSE. **Table D1** identifies the external partner agencies and their respective exercise participation. “X” indicates entity participated, “I” indicates entity was invited (participation not confirmed).

Table D1: External Organizations Participating in the PSPS Functional Exercise

Participating External Agency	Player	Observer
<b>State Agency Partners</b>		
California Governor’s Office of Emergency Services (Cal OES)	x	x
California Department of Forestry and Fire Protection (CAL FIRE)	x	
California Public Utility Commission (CPUC)	x	x
<b>Local Agency Partners</b>		
Alameda County	x	
Colusa County		x
Napa County		x
Placer County		x
Fresno County		x
San Jose Mineta International Airport		x
City of San Jose		x
Kings County		x
Glenn County		x
Santa Clara County		x
San Luis Obispo County		x
Mariposa County	x	x
Calaveras County	x	
City of Gilroy		I
Placer County		I
Plumas County		x



City of Morgan Hill		I
Kern County		I
Madera County		x
Butte County		x
<b>Telecommunication Companies</b>		
AT&T		x
Comcast	x	x
Verizon		x
Charter Communications		I
<b>Utility Partners</b>		
Southern California Edison		x
San Diego Gas & Electric		x
Southwest Strategies for CRC's	x	
Bear Valley Electric Service		I
<b>Community Based Organizations</b>		
CFILC		x
Independent Living Center of Kern County		x
Disability Action Center		x
Disability Resources Agency for Independent Living		x
Red Cross		I
Resource for Independence Central Valley		x
Silicon Valley Independent Living Center	x	x
Tri County Independent Living	x	x
FREED		x