# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Examine Electric Utility De-Energization of Power Lines in Dangerous Conditions.

Rulemaking 18-12-005

# SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) PUBLIC SAFETY POWER SHUTOFF POST-EVENT REPORT FOR OCTOBER 27, 2024 DE-ENERGIZATION EVENT

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Dated: November 13, 2024

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In compliance with California Public Utilities Commission Public Safety Power Shutoff (PSPS) Order Instituting Rulemaking Phase 1 Decision (D.) 19-05-042, Phase 2 D.20-05-051, Phase 3 D.21-06-034 and PSPS Order Instituting Investigation D.21-06-014, Southern California Edison Company (SCE) hereby submits its PSPS Post-Event Report for the October 27, 2024, de-energization event (Attachment A hereto). Pursuant to the October 14, 2021, email ruling of ALJ Valerie Kao, SCE hereby provides the following link to access and download the attachments and appendices to its PSPS Post-Event Report: on.sce.com/PSPSposteventreports.

### Respectfully submitted,

#### R. OLIVIA SAMAD

### /s/ R.Olivia Samad

By: R. Olivia Samad

Attorneys for

SOUTHERN CALIFORNIA EDISON COMPANY

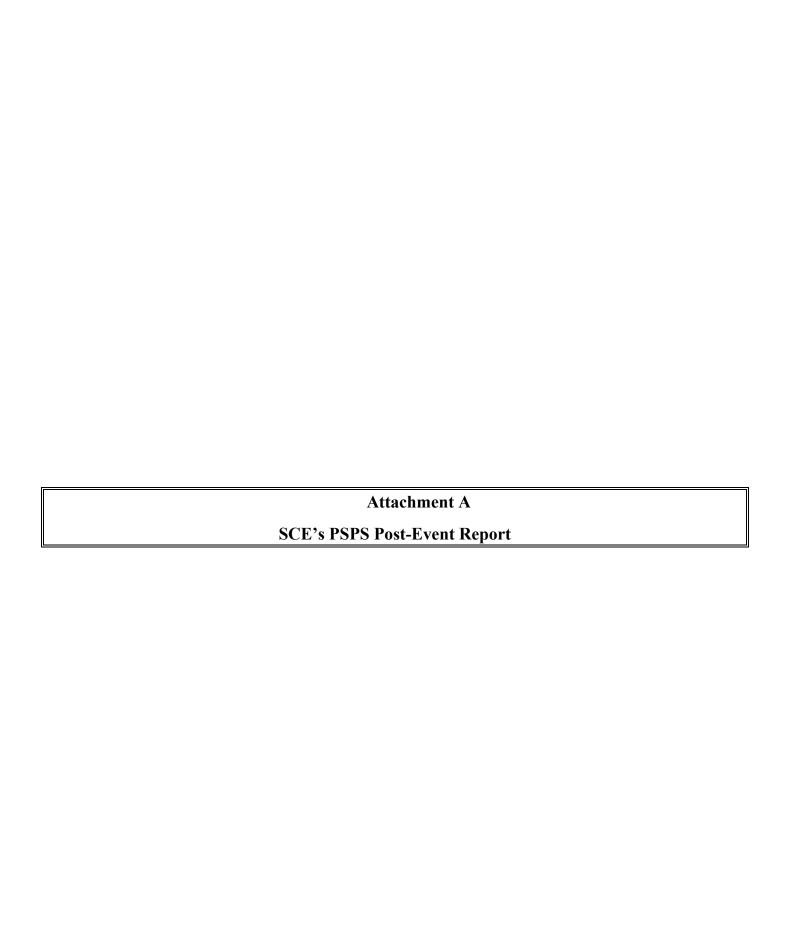
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Dated: November 13, 2024





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November 13, 2024

Fax (415) 929-5544

Leslie Palmer, Director
Safety Enforcement Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

SUBJECT: SCE PSPS Post Event Report – October 24, 2024 to October 29, 2024

Dear Director Palmer:

As required by Resolution ESRB-8 and in accordance with Ordering Paragraph 1 of California Public Utilities Commission (CPUC) Decision (D.) 19-05-042, Southern California Edison Company (SCE) respectfully submits a post-event report for the PSPS event initiated on **October 24, 2024** and concluded on **October 29, 2024**.

This report has been verified by an SCE officer in accordance with Rule 1.11 of the Commission's Rules of Practice and Procedure.

If you have any questions, please do not hesitate to call.

Sincerely,

DocuSigned by:

Marissa Blunschi

—pdf576B774674B8... /s/ Marissa Blunschi

Marissa Blunschi

Principal Manager, Regulatory Relations

cc: ESRB ComplianceFilings@cpuc.ca.gov

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Southern California Edison Public Safety Power Shutoff (PSPS) Post-Event Report October 27, 2024

Filed with: The California Public Utilities Commission

**Submitted to: Director of the Safety and Enforcement Division** 

Dated: November 13, 2024

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### Introduction

SCE submits this post-event report to demonstrate its compliance with California Public Utilities Commission's (CPUC or Commission) PSPS guidelines including Resolution ESRB-8, PSPS Order Instituting Rulemaking (OIR) Phase 1 (Decision (D.) 19-05-042), Phase 2 (D.20-05-051), Phase 3 (D.21-06-034) and PSPS Order Instituting Investigation (OII) (D.21-06-014).<sup>1</sup>

This report addresses the event that started on October 24, 2024 at 12:30 p.m. and ended on October 29, 2024 at 11:30 p.m. in Inyo, Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne Counties, and 89 customers were de-energized during this event. This report explains SCE's decision to call, sustain, and conclude the de-energization event, and provides detailed information to facilitate the Commission's evaluation of SCE's compliance with applicable PSPS guidelines.

SCE recognizes de-energizations pose significant challenges and hardships for our customers and the public safety partners that provide services to the affected communities. SCE's decision to activate its PSPS protocol is based on consideration and weighing of multiple factors, including forecasted weather, fuel conditions, infrastructure vulnerabilities, and potential impacts of PSPS on public safety partners and the communities we serve.

SCE is committed to continuously improving its PSPS processes and welcomes input from customers, public safety partners, community representatives, and local governments on ways to minimize the impact of PSPS events.

<sup>&</sup>lt;sup>1</sup> This PSPS post-event report is based on the best information and data available as of the filing deadline for the report. SCE continues to gather, analyze, and validate some of the underlying data, and will supplement this report with updated information, as needed, in its annual post-season report. *See* D.21-06-014, Ordering Paragraph (OP) 66, p. 305 (directing SCE to "provide aggregate data . . . in an annual report, including aggregate data that may not have been available at the time the utility filed the 10-day post-event report").

### Section 1. Executive Summary

At A Glance							
Total customers notified	Total customers de-energized	List of counties in scope	List of counties de-energized	Total distribution circuits in scope	Total distribution circuits de- energized	# of damage/ hazards found	Community resource centers (including CCVs)
8,086	89	Inyo, Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne	Inyo and San Bernardino	31	3	0	6

1. Brief description of the PSPS event starting from the time when the utility's Emergency Operation Center is activated until service to all customers have been restored.

This event covered a single Period of Concern (POC) as a result of evolving weather forecasts. This resulted in 89 customers being de-energized in Inyo and San Bernardino Counties during this event. A summary of the timeline for this event is provided below.

On October 24, 2024 meteorologists identified the potential for dangerous fire weather conditions due to a Pacific storm system bringing gusty onshore winds and low relative humidity to portions of Inyo. Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne Counties beginning on October 27. The dry air and gusty winds would create localized areas of elevated fire weather conditions across the east-facing Sierra Mountains in Inyo, Mono, and Tuolumne Counties, exposed areas of the Sierra in Kern and Tulare Counties, and the San Bernardino Mountain slopes of San Bernardino County through October 28. On October 25, meteorologists expanded the period of concern to include isolated areas of Santa Barbara County through October 29 due to weak offshore flow developing as the Pacific storm system moved inland. Given this forecast, SCE's meteorology and fire science experts consulted the Geographic Area Coordination Center (GACC)<sup>2</sup> for forecast alignment to evaluate potential fire weather impacts. The GACC agreed with SCE's forecast of elevated fire weather for this first Period of Concern of this PSPS event. The National Weather Service (NWS) also issued Red Flag Warnings for Mono County and Wind Advisories for portions of San Bernardino and Santa Barbara Counties during portions of the Period of Concern.

In response to this forecasted fire weather, SCE activated its dedicated PSPS Incident Management Team (IMT) on October 24, 2024 at 12:30 p.m. to manage this event and began sending advance notifications of potential PSPS to Public Safety Partners, Critical Facilities and Infrastructure customers, and other customers in scope.

Ultimately, SCE de-energized 89 customers<sup>2</sup> in Inyo and San Bernardino Counties during this PSPS event based on observed fire weather conditions.

This PSPS event concluded on October 29, 2024 at 11:30 p.m. after fire weather conditions were no longer forecasted to impact the SCE service area; the IMT de-mobilized on October 29<sup>th</sup>.

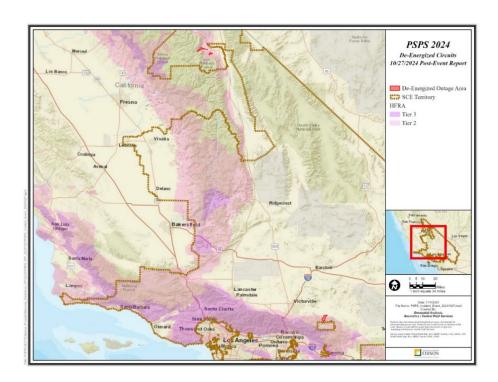
<sup>&</sup>lt;sup>2</sup> See Attachment C – PSPS Event Data Workbook for additional details related to customer notifications during this event.

2. A table including the maximum number of customers notified and actually de-energized; number of counties de-energized; number of tribes de-energized; number of Medical Baseline customers de-energized; number of transmission and distribution circuits de-energized; damage/hazard count; number of critical facilities and infrastructure de-energized.

**Table 1: PSPS Event Summary**<sup>3</sup>

<b>PSPS Event</b>	PSPS Event Summary									
Total Customers				De-en	ergized		N			
PSPS Notified	De-energized	Cancelled	MBL Customers	Number of Counties	Number of Tribes	Critical Facilities and Infrastucture	Transmission De-energized	Distribution Circuits in Scope	Distribution Circuits De-energized	Damage/Hazard Count
8086	89	8001	2	2	0	4	0	31	3	0

3. A PDF map depicting the de-energized area(s)



### Section 2. Decision-Making Process

1. A table showing factors considered in the decision to shut off power for each circuit deenergized, including sustained and gust wind speeds, temperature, humidity, and moisture in the vicinity of the de-energized circuits.<sup>4</sup>

<sup>&</sup>lt;sup>3</sup> "PSPS Notified" metric in Table 1 reflects the total number of unique customers that were sent a pre-event notification of potential de-energization during the PSPS event. "Cancelled" metric in Table 1 reflects the total number of unique customers that were sent a pre-event notification of potential de-energization, but not ultimately de-energized (regardless of whether those customers received a cancellation notice). Please see Section 5 of this report regarding missed notifications and cancellation notice metrics.

<sup>&</sup>lt;sup>4</sup> SCE calculates a Fire Potential Index (FPI) rating for each circuit in scope for de-energization. FPI estimates the

Table 2: Factors Considered in Decision to De-Energize<sup>5</sup>

<b>Factors Consider</b>	Factors Considered in Decision to De-Energize								
Sustained Wind Speed				Gust Wind Speed	Fire Poter (Fl	Firecast			
De-energized	Activation Threshold		Actual	Activation Threshold	Actual Thre		Threshold	Actual	Output Ratio
BIRCHIM	31	31	22.56	46	46	44.5	13	14.06	91.531927
DOBLE	31	31	30.41	46	46	51.15	13	13.9	9352.9777
SCOUT (DS DOBLE)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

# 2. Decision criteria and detailed thresholds leading to de-energization including the latest forecasted weather parameters versus actual weather. Also include a PSPS decision-making diagram(s)/flowchart(s) or equivalent along with narrative description.

SCE uses preset wind and gust thresholds for dangerous wind conditions that create increased fire potential (including wind speeds, humidity, fuel moisture levels and other factors as the basis for PSPS decision-making, as described in SCE's technical paper).<sup>6</sup> De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. In addition, escalating weather conditions and operational complexities are considered when making de-energization decisions.

These thresholds are set for each of the circuits in SCE-designated high fire risk areas (HFRAs) and are continuously reviewed to calibrate the risk of significant events against the potential for harm to customers from the loss of power.

All circuits have an activation threshold, defined by the Fire Potential Index (FPI), and sustained and gust wind speeds at which they are considered at risk. Activation thresholds are computed for each circuit for the season.

#### FPI is calculated using the following inputs:

likelihood of a spark turning into a major wildfire. FPI uses a whole-number scale with a range from 1 to 17; categorized as normal (1-11), elevated (12-14) and extreme (15+). FPI inputs include wind speed, dewpoint depression (which is a measure of how dry the air is), and various fuel moisture parameters, as detailed in Section 2-2 of this report. Other variables, such as temperature and humidity, while potential contributors to fire spread, are not direct inputs into the FPI calculation. Temperature and humidity are accounted for indirectly through the inclusion of dewpoint depression in the FPI rating. Because temperature, humidity, and moisture are not distinct "factors considered" in SCE's denergization decisions, they are not reported separately but are reflected in the actual FPI rating for each de-energized circuit, as shown in Table 2. The notation "N/A" (Not Applicable) in Table 2 means that Sustained Wind Speed, Gust Wind Speed and Fire Potential Index (FPI) data is not available for downstream circuits which are included in Table 2 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. Factors considered in decision to de-energize customers on downstream circuits is already accounted for in the in Table 2 for the parent circuits.

<sup>&</sup>lt;sup>5</sup> Actual sustained and gust wind speeds in Table 2 are recorded at the time the decision was made to begin the deenergization process and do not reflect peak wind and gust speeds observed during the Period of Concern (which could be higher). De-energization of a circuit generally occurs when either sustained wind de-energization threshold or gust wind de-energization threshold is met, in tandem with the circuit's FPI threshold.

<sup>&</sup>lt;sup>6</sup> SCE's detailed technical paper, Quantitative and Qualitative Factors for PSPS Decision-Making, can be found at <a href="https://download.newsroom.edison.com/create">https://download.newsroom.edison.com/create</a> memory file/?f id=609d61cbb3aed37d0f3d5f6a&content verified=Tr ue and in Attachment B of this report.

- Wind speed—Sustained wind velocity at 6 meters above ground level.
- Dew point depression—The dryness of the air as represented by the difference between air temperature and dew point temperature at 2 meters above ground level.
- Energy release component (ERC) "The available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire ... reflects the contribution of all live and dead fuels to potential fire intensity."
- 10-hour dead fuel moisture—A measure of the amount of moisture in ¼-inch diameter dead fuels, such as small twigs and sticks.
- 100-hour dead fuel moisture—A measure of the amount of moisture in 1- to 3-inch diameter dead fuels, i.e., dead, woody material such as small branches.
- Live fuel moisture—A measure of the amount of moisture in living vegetation.
- Normalized Difference Vegetation Index (NDVI)— "... used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in plant health." 8

### <u>Visual 1. Fire Potential Index Equation</u><sup>9</sup>

Fuel loading modifier associated with low, moderate, and heavy fuel loading corresponding to 0.50, 0.75 and 1.00, respectively. This Dryness Level is a function of ERC represents a measure of the amount of and the 10-hour/100-hour dead fuel vegetation on the ground. moisture time-lag.  $FPI = \binom{DL}{LFM} + G FLx + Wx$ Weather component of the FPI, also known as the weather score, and references a lookup table of paired sustained wind speed and dew point depression values as in the figure below. The value range is 0 to 6. Moisture content of Degree of green-up of the annual the living vegetation. grass based on the NDVI. FPI Weather Component (Wx) Wind Speed (mph) <=5 6-10 11-16 17-22 23-28 >=29 >=50 3 3 6 **Dew Point Depression** 2 3 40-49 3 30-39 3 1 2 2 3 1 2 2 3 20-29 1 3 10-19 0 0 1 1 0 0 <10 0 0

<sup>&</sup>lt;sup>7</sup> U.S. Department of Agriculture. n.d. "Energy Release Component (ERC) Fact Sheet." Forest Service. Accessed April 14, 2021. https://www.fs.usda.gov/Internet/FSE\_DOCUMENTS/stelprdb5339121.pdf.

<sup>&</sup>lt;sup>8</sup> U.S. Department of the Interior. n.d. Landsat Normalized Difference Vegetation Index. Accessed May 15, 2024. https://www.usgs.gov/core-science-systems/nli/landsat/landsat-normalized-difference-vegetation-index?qt-science\_support\_page\_related\_con=0#qt-science\_support\_page\_related\_con.

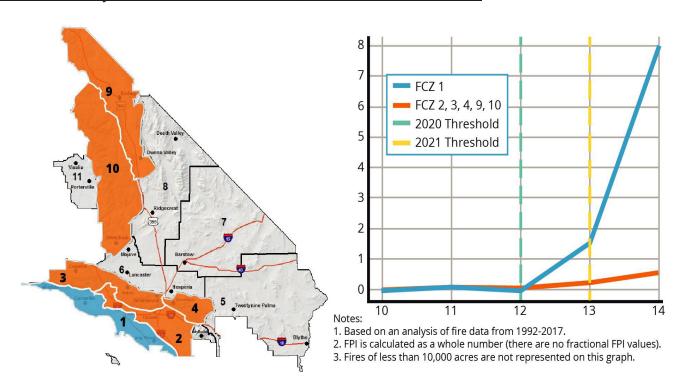
<sup>&</sup>lt;sup>9</sup> For more information on SCE's Fire Potential Index, including the insertion of the Live Fuel Moisture variable, please see SCE's 2023-2025 Wildfire Mitigation Plan, *available at* 

https://www.sce.com/sites/default/files/AEM/Wildfire%20Mitigation%20Plan/2023-2025/SCE%202023%20WMP%20R2-clean.pdf, pp. 512-516).

Initially, SCE set the FPI threshold to 12 for all circuits in SCE's high fire risk areas. Starting on Sept. 1, 2021, SCE raised the FPI to 13 for most areas and most events based on a risk analysis of historical fire data. 10 Exceptions where the FPI threshold continued to be set at 12 include:

- Fire Climate Zone 1 (FCZ1) (Coastal region) The threshold for FCZ1 is staying at 12 because probability calculations indicated a significantly higher ignition risk factor at an FPI threshold of 13 for this FCZ than for the other FCZs (2, 3, 4, 9 and 10). (Figure 2)
- Geographic Area Coordination Center (GACC) preparedness level of 4 or 5 The GACC coordinates multiple federal, state, and regional fire suppression resources. It provides daily fire preparedness levels on a scale of 1-5. A high score signals that there is significant resource drawdown which could negatively impact fire response.
- Circuits located in an active Fire Science Area of Concern (AOC) AOCs are areas within FCZs that are at high risk for fire with significant community impact. This designation is based on factors that are part of FPI, as well as egress, fire history and fire consequence. Further details about AOCs can be found in SCE's Wildfire Mitigation Plan. <sup>11</sup>

Visual 2. Probability of Wind-Driven Fires at 10,000 Acres at FPI 12 and 13<sup>12</sup>



In 2023, SCE identified certain remote and isolated areas (less than 1% of SCE's high fire risk area)

<sup>&</sup>lt;sup>10</sup> Short, Karen C. 2017. Spatial wildfire occurrence data for the United States, 1992-2015 [FPA\_FOD\_20170508]. 4th Edition. Fort Collins, CO: Forest Service Research Data Archive https://doi.org/10.2737/RDS-2013-0009.4 Supplemented with 2016-2017 ignition data supplied directly by CalFIRE via email.

<sup>&</sup>lt;sup>11</sup> SCE's 2023-2025 Wildfire Mitigation Plan Update dated April 2, 2024.

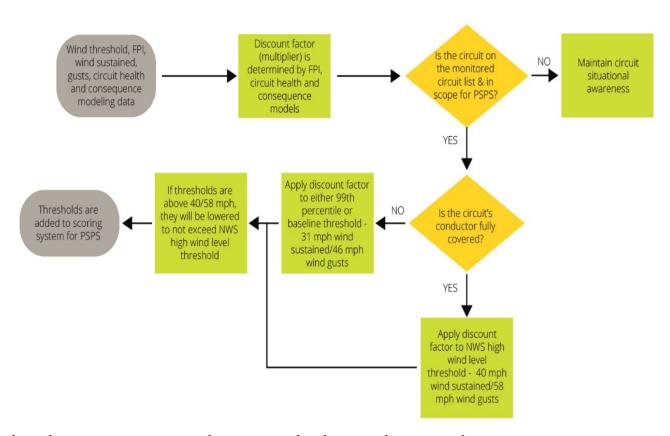
<sup>&</sup>lt;sup>12</sup> Based on back cast FPI calculation.

where an FPI threshold of 11 may be appropriate to mitigate additional fire risk created by unique factors such as extremely limited egress and constrained fire suppression capability. SCE does not anticipate a significant increase in PSPS events as a result of lowering the FPI threshold in these areas.

For each PSPS event, every circuit also has a de-energization threshold. De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. There are a handful of circuits that have legacy thresholds below the NWS advisory level because they have a history of local circuit outages at lower wind speeds.

De-energization thresholds account for circuit health, including any issues identified through patrols, and are also informed by a consequence score for each specific high fire risk area. The consequence score estimates the impact of an ignition on communities. The higher the score, the greater the risk to a particular location from wildfires. SCE's process for calculating de-energization thresholds is outlined below.

Visual 3. PSPS Decision-Making Flowchart/Diagram



If actual conditions suggest more risk, or in complex, large-scale events when many circuits are under consideration for shutoffs, the de-energization thresholds may be lowered (discounted), meaning power on a circuit will be turned off at lower wind speeds. This step prioritizes the circuits that represent the highest risk to be evaluated for de-energization before circuits are at lower risk.

De-energization thresholds are raised for segments or circuits that have had covered conductor installed. The de-energization threshold for segments with covered conductor is 40 mph

sustained/58 mph gusts, which aligns with the NWS high wind warning level for windspeeds at which infrastructure damage may occur.

The thresholds for the circuits in scope for potential de-energization during this event were set as follows:

Table 3: Circuit Thresholds<sup>13</sup>

Circuit Thresholds							
Circuit	FPI Threshold Rating	Wind Speed Activ	vation Thresholds	De-Energization Thresholds			
Circuit	rri illiesilolu katilig	Sustained Wind	Gust Wind	Sustained Wind	Gust Wind		
BIRCHIM	13	31	46	31	46		
DOBLE	13	31	46	31	46		
SCOUT (DS DOBLE)	N/A	N/A	N/A	N/A	N/A		

Forecasted versus actual weather parameters for this event were as follows:

- Wind: Sustained winds of 20-to-45 mph and wind gusts of 35-to-60 mph were forecasted for Inyo, Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne Counties during this event, with isolated areas of higher gusts up to 70 mph in the Sierra. Peak observed wind speeds in areas of concern were 41 mph sustained and 65 mph gusts during this event.
- Relative humidity: Relative humidity during this event was forecasted to be between 10% and 30% across Inyo, Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne Counties concurrent with the strong winds. Actual observed relative humidity ranged from 5% to 28% during this event. As discussed in Section 2-1 above, relative humidity is just one of many variables that inform SCE's FPI ratings.
- 3. A thorough and detailed description of the quantitative and qualitative factors SCE considered in calling, sustaining, or curtailing each de-energization event including any fire risk or PSPS risk modeling results, and a specification of the factors that led to the conclusion of the de-energization event.

SCE's PSPS decisions are based on quantitative analyses while accounting for qualitative factors such as societal and emergency management impacts. SCE utilizes proactive de-energization as a measure of last resort when all other alternatives to de-energization have been exhausted. The decision to de-energize customers during this PSPS event was based on considering and weighing the quantitative and qualitative factors detailed below:

- Consultation with the GACC regarding SCE's forecast of elevated fire weather potential.
- Ongoing assessments before the Period of Concern from SCE's in-house meteorologists using high-resolution weather models to determine the potential scope of the PSPS event, as well as real time weather data from SCE weather stations and publicly available weather stations during

<sup>&</sup>lt;sup>13</sup> The notation "N/A" (Not Applicable) in Table 3 means that Fire Potential Index (FPI) Threshold Rating, Wind Speed Activation Threshold, and De-Energization Threshold are not available for downstream circuits which are included in Table 3 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. Circuit threshold for customers on downstream circuits is already accounted for in Table 3 for the parent circuits.

the Period of Concern to inform actual de-energization decisions.

- Fire spread modeling to identify areas having the greatest potential for significant fire activity. Results of this modeling by SCE identified the potential for fire in the two thousand (2,000) to seven thousand (7,000)-acre range in the areas of concern during the Period of Concern.
- Observed weather parameters for this PSPS event, including sustained and/or gust wind speeds and FPI ratings for the circuits in scope relative to the preset thresholds for this event.
- National Weather Service-issued watches and warnings for areas of concern in SCE service territory.

SCE considered the following factors when deciding to conclude this de-energization event:

- Weather modeling for the areas of concern. SCE's meteorologists indicated elevated fire weather conditions would continue to abate below wind and FPI thresholds throughout the night on October 29 due to forecasted decreasing wind speeds and FPI.
- Observed wind speeds and FPI ratings. Observed wind and FPI ratings for all circuits in scope no longer met de-energization threshold criteria as of 7:39 p.m. on October 28<sup>th</sup>.
- 4. An explanation of how the utility determined that the benefit of de-energization outweighed potential public safety risks, and analysis of the risks of de-energization against not de-energizing. The utility must identify and quantify customer, resident, and the general public risks and harms from de-energization and clearly explain risk models, risk assessment processes, and how the power disruptions to customers, residents, and the general public is weighed against the benefits of a proactive de-energization.

SCE assesses and compares potential public safety risks associated with proactive deenergization (PSPS risk) and simulated wildfire risk (PSPS benefit in avoiding a wildfire) for all circuits in scope for the Period of Concern, using its PSPS In-Event Risk Comparison Tool. <sup>14</sup> Inputs into this tool include, among other factors, wildfire simulations, and circuit specific data. The results of these circuit specific assessments are displayed in the Central Data Platform and used by Incident Commanders to inform de-energization decisions, in conjunction with other relevant quantitative and qualitative factors described in Section 2 of this report. Incident Commanders consider these assessments in making de-energization decisions to ensure the wildfire risk (PSPS benefit in avoiding a wildfire) outweighs the risk associated with PSPS for each circuit in scope.

The circuit-specific criteria and data used in this assessment, include:

• **For PSPS Risk**: Customers served, estimated population, and the relative ranking of the circuits

<sup>&</sup>lt;sup>14</sup> SCE will continue to refine the PSPS In-Event Risk Comparison Tool based on real-time experience, additional data, modeling enhancements, and ongoing benchmarking with other IOUs. Estimates and assumptions described herein are based on risk models reflecting current industry best practices (such as FireRisk (formally FireCast) and are subject to being updated as the modeling improves.

in scope by the percentage of Access and Functional Needs (AFN) and Non-Residential Critical Infrastructure (NRCI) customers.

• **For Wildfire Risk**: Wildfire simulations (using Technosylva FireRisk<sup>15</sup> modeling) for potential ignitions based on dynamic, in-event weather and wind conditions in proximity to the circuits in scope for de-energization. These conditions are used to determine the extent of an estimated fire footprint (or fire shed). Within that fire shed, the risk of a wildfire is calculated based on the number of structures, population, and acres potentially threatened within the impacted area.

The resulting outputs of the PSPS In Event Risk Comparison Tool are used to calculate potential Safety, Financial, and Reliability impacts (or attributes) of: (1) a wildfire and (2) a proactive deenergization event, as summarized in the table below:

Risk Attribute	Wildfire Consequences	PSPS Consequences
Safety	SCE calculates the estimated number of fatalities and serious injuries based on a forecast of impacted population within the Technosylva wildfire consequence simulation. This number, in turn, is converted into the Safety index.	SCE leverages epidemiological studies and information drawn from past widespread power outage events including the 2003 Northeast Blackout, the 2011 Southwest Blackout, and the IOUs' 2019 PSPS post-event reports. The resulting estimates of fatalities and serious injuries per customer minutes interrupted (CMI) are intended to approximate potential safety consequences due to the power outage, such as illnesses resulting from food spoilage or exacerbation of existing underlying health conditions. SCE enhanced the PSPS safety attribute through the application of a circuit-specific AFN/NRCI multiplier. This multiplier represents the relative ranking of each circuit based on the number of AFN and NRCI customers on the circuit.
Reliability	consistency with Technosylva 24-hour fire	SCE estimates the total customer minutes interrupted (CMI) due to proactive deenergization on a circuit. It is the product of the number of customers on a circuit and the total number of minutes of estimated interruption. SCE assumes 1,440 CMI per customer (24 hours x 60 minutes) to represent de-energization over a 24-hour period.

<sup>&</sup>lt;sup>15</sup> Technosylva is a suite of wildfire simulation models or tools. While relying on a similar underlying fire propagation engine, each model is designed to support a unique use case. FireRisk (formally FireCast) is specifically designed to forecast ignition risk associated with electric utility assets over a 7-day horizon based on expected short-term weather conditions.

<sup>&</sup>lt;sup>16</sup> See, e.g., Anderson, G.B., Bell, M.B (2012). Lights Out: Impact of the August 2003 Power Outage on Mortality in New York, NY, *Epidemiology* 23(2) 189-193. doi: 10.1097/EDE.0b013e318245c61c.

SCE calculates the financial impact of wildfire by assigning a dollar value to the buildings and acres within the fire shed potentially threatened by wildfire. For buildings, SCE uses a system average replacement value assumption. For acres, SCE uses assumed costs of suppression and restoration. <sup>17</sup>

Financial

SCE conservatively assumes \$250<sup>18</sup> per customer, per de-energization event to quantify potential financial losses for the purpose of comparing PSPS risk to wildfire risk. The figure represents potential customer losses, such as lost revenue/income, food spoilage, cost of alternative accommodations, and equipment/property damage. This value is based on a Value of Lost Load (VoLL), which is a widely accepted industry methodology to estimate a customer's willingness to accept compensation for service interruption. VoLL is dependent on many factors, including the type of customer, the duration of the outage, the time of year, the number of interruptions a customer has experienced. SCE's VoLL estimate is consistent with academic and internal studies to estimate VoLL for a single-family residential customer for a 24-hour period.

The resulting natural unit consequences for PSPS and wildfire risk are converted to unit-less risk scores —one for PSPS risks and one for wildfire risks 19 using SCE Multi-Attribute Risk Score (MARS) framework.

The use of a unit-less risk score allows SCE to compare the resulting risk scores to each other by dividing the wildfire risk score (*i.e.*, the potential benefit of PSPS) by the PSPS risk score (*i.e.*, the potential public harm of PSPS). The calculation results in an easily interpretable benefit/risk ratio for each circuit in scope.

<sup>&</sup>lt;sup>18</sup> SCE utilizes \$250 per customer, per de-energization event to approximate potential financial losses on average, recognizing that some customers may experience no financial impact, while other customers' losses may exceed \$250. The \$250 value is a conservative assumption used for the limited purpose of estimating the potential financial consequences of PSPS as one of many inputs into SCE's PSPS In-Event Risk Comparison Tool. It is not an acknowledgment that any given customer has or will incur losses in this amount, and SCE reserves the right to argue otherwise in litigation and other claim resolution contexts, as well as in CPUC regulatory proceedings.
<sup>19</sup> MARS is SCE's version of Multi-Attribute Value Function (MAVF). The MAVF was developed as part of the Safety Model Assessment (S-MAP) proceeding and is used in the utilities' 2018 Risk Assessment Mitigation Phase (RAMP) Report (I.18-11006, pp. 1-28) filings to compare risks and mitigation alternatives. SCE has improved its MARS framework since first developing it for the 2018 RAMP. SCE MARS 2.0 attributes, units, weights, ranges, and scales are shown below, and are further described in SCE's 2022 RAMP report. See A.21-05-13, Chapter 2 – Risk Model and RSE Methodology.

Attribute	Unit	Weight	Range	Scaling
Safety	Index	50%	0 - 100	Linear
Reliability	CMI	25%	0 – 2 billion	Linear
Financial	\$	25%	0 – 5 billion	Linear

<sup>&</sup>lt;sup>17</sup> Suppression costs are based on a five-year average of California's reported wildfire suppression costs from 2016-2020. Restoration costs are assumed to be \$1,227/acre based on research papers published by the Bureau of Land Management.

If the resulting ratio is equal to 1, wildfire and PSPS risk are equal to one another. If the ratio is greater than one, wildfire risk exceeds PSPS risk (the higher the resulting number, the more the wildfire risk outweighs the PSPS risk). If the ratio is less than 1, PSPS risk outweighs the wildfire risk.

The table below displays circuit-specific inputs—including the number of customers on a circuit, AFN/NRCI multiplier, number of acres and buildings potentially threatened— all of which are used to calculate the PSPS and wildfire risk scores (shown in columns titled "PSPS Risk" and "Wildfire Risk") These risk scores are then compared in the last column (highlighted in yellow) titled "FireRisk Output Ratio," which shows the ratios of wildfire risk (corresponding to potential benefit of PSPS) to PSPS risk (corresponding to potential public harm from PSPS) for each circuit in scope. All ratios in the "FireRisk Output Ratio" column for are greater than 1, meaning that the wildfire risk exceeded PSPS risk for all circuits in scope. These results were presented to the Incident Commanders in advance of de-energization to inform PSPS decision-making.

PSPS Risk vs. Benefit Comparison Tool										
Circuit	All Customers	Population	AFN/NRCI Multiplier	24 Hour CMI (24 x 60)	Firecast Acres	Firecast Buildings	Firecast Population	(24 hr Impact-	Wildfire Risk (24hr Impact- PSPS Model)	
BIRCHIM	583	1749	1.18298497	1440	3600.1	137	194	0.000123	0.011242989	91.531927
DOBLE	2	6	1	1440	5158.1	42	97	0.00000126	0.0038885	9352.9777
SCOUT (DS DOBLE)	3	9	1.00000000	1440	N/A	N/A	N/A	0.000000624	N/A	N/A

For this de-energization event, the results of the PSPS Risk vs. Benefit Comparison Tool supported SCE's decision to de-energize, indicating that all circuits de-energized during this event de-energization during this event<sup>20</sup> had a PSPS benefit/risk ratio greater than one (1). Thus, the estimated benefit of PSPS outweighed the estimated risk of PSPS for this event.

# 5. Explanation of alternatives to de-energization and other wildfire mitigation measures in de-energized areas; PSPS last resort analysis.

SCE deploys a suite of wildfire mitigation measures aimed at reducing the probability of ignitions associated with electrical infrastructure in high fire risk areas without resorting to PSPS. These activities include grid hardening measures such as installation of covered conductor, repair, or replacement of equipment on poles (e.g., crossarms, transformers), and installation of protective

<sup>&</sup>lt;sup>20</sup> The table showing the results of the PSPS Risk vs. Benefit Comparison Tool includes ratios for <u>all</u> de-energized circuits for this event, all of which indicate the benefit of wildfire avoidance (achieved through PSPS or other mitigation measures) exceeded PSPS risk. As noted above, the results of the Tool are among many quantitative and qualitative factors considered by SCE in its PSPS decision-making process. The notation "N/A" (Not Applicable) in Table 4 means that FireCast data for wildfire risk (Acres Impacted, Buildings Impacted, and Population Impacted) is not available for downstream circuits which are included in Table 4 solely because these circuits are electrically connected to circuits in scope for potential de-energization. A downstream circuit would need to be de-energized if the parent circuit to which it is connected exceeds PSPS criteria. PSPS risk for customers on downstream circuits is already accounted for in the ratios shown in Table 4 for the parent circuits. FireCast ratio for circuits that serve no customers is marked "INF" (Infinite) because these circuits have no associated PSPS risk but still have wildfire risk, so the ratio is weighted solely on wildfire risk.

devices (e.g., fast acting fuses and relay settings).<sup>21</sup> In addition, SCE has implemented operational practices including enhanced inspections, vegetation management, and fire climate zone operating restrictions<sup>22</sup> in high fire risk areas. Certain protective measures such as fast curve settings and fire climate zone operating restrictions are applied to a majority of high fire risk circuits and are typically in effect for the duration of the fire season; others such as covered conductor are permanent and in place year-round. SCE's PSPS windspeed thresholds account for circuits or isolatable circuit segments that are fully hardened with covered conductor, thereby potentially limiting the duration and number of customers affected by PSPS during fire weather events. However, during severe fire weather conditions (dry and windy), there is a heightened risk of ignitions primarily due to wind-driven foreign objects or airborne vegetation coming into contact with SCE's equipment. Under these circumstances, the deployment of the above-described less disruptive measures may not sufficiently mitigate wildfire and public safety risk, and PSPS is necessary as a last resort mitigation measure to prevent ignitions that may lead to significant wildfires.

Leading up to and during a PSPS event, SCE utilizes real-time weather station data and, if available, information from field observers on the ground for enhanced situational awareness to forecast and monitor prevailing environmental conditions (e.g., wind gusts) that can lead to potential damage from airborne vegetation or flying debris, to inform de-energization decisions. For circuits that are in scope, SCE also conducts pre-patrols and visually inspects the entire length of each circuit or circuit segment to identify any imminent hazards or equipment vulnerabilities that require immediate remediation and provide additional up-to-date intelligence on field conditions. If such concerns are discovered on a circuit in scope, they are addressed before the impending wind event, if possible.

SCE makes every effort to limit the scope, duration, and impact of PSPS for as many customers as possible. This includes adjusting wind speed thresholds higher for circuits or segments that have covered conductor installed and leveraging sectionalization equipment to switch some customers to adjacent circuits not impacted by PSPS or otherwise remove them from scope. Starting with the initial weather (wind and relative humidity) and fuel moisture forecasts for the Period of Concern, SCE evaluates its current system configurations for downstream circuits, i.e., circuits receiving power from another circuit that is forecast to exceed de-energization thresholds. SCE seeks to identify any circuit segment or subset of customers that could safely be transferred from a circuit that is expected to exceed thresholds to another adjacent circuit that is not. See Section 10: Mitigation to Reduce Impact for additional details.

Based on weather forecast data, fire weather modeling information, and results of the PSPS Risk vs. Benefit Comparison Tool, SCE determined that the above-described precautionary measures alone would not sufficiently reduce the risk to public safety, and PSPS was necessary for some of the circuits and customers in scope.

### Section 3. De-Energized Time, Place, Duration and Customers

Fast curve settings reduce fault energy release by increasing the speed with which a protective relay reacts to most fault currents. Fast curve settings can reduce heating, arcing, and sparking for many faults compared to conventional protection equipment settings. More details are in SCE's 2023-2025 Wildfire Mitigation Plan Update, initiative SH-6.
 SCE's System Operating Bulletin No. 322 includes provisions for enabling fast curve settings on distribution line reclosers and circuit breakers, recloser blocking, line patrols and requirements for personnel to be physically present when operating air-break switching devices.

# 1. The summary of time, place, and duration of the event, broken down by phase if applicable.

This PSPS event began when SCE activated its Emergency Operations Center on October 24, 2024 at 12:30 p.m. and ended for all circuits in scope on October 29, 2024 at 11:30 p.m. by which time service was restored to all de-energized customers. This event encompassed impacted circuits in Inyo, Kern, Mono, San Bernardino, Santa Barbara, Tulare, and Tuolumne Counties. *See,* also Section 1-1 above for additional information.

2. A zipped geodatabase file that includes PSPS event polygons of de-energized areas. The file should include items that are required in Section 3.3.

A zipped geodatabase file that includes all information in Section 3.3 is included with this filing.

3. A list of circuits de-energized, with the following information for each circuit. This information should be provided in both a PDF and excel spreadsheet.

The following table details the specified information for each circuit de-energized during this PSPS event and has also been included in the required PSPS Event Data Workbook filed with this report.

- County
- De-energization date/time
- Restoration date/time<sup>23</sup>
- "All Clear" declaration date/time<sup>24</sup>
- General Order (GO) 95, Rule 21.2-D Zone 1, Tier 2, or Tier 3 classification or non-High Fire Threat District
- Total customers de-energized<sup>25</sup>
- Residential customers de-energized
- Commercial/Industrial customers de-energized

<sup>&</sup>lt;sup>23</sup> Table 5 reflects de-energization data at the circuit level (rather than segment level) and shows first de-energization date/time and final restoration date/time for each circuit. During this event, SCE deployed segmentation to limit de-energization to specific circuit segments in the areas of concern.

<sup>&</sup>lt;sup>24</sup> SCE understands "All Clear" declaration date/time for each circuit in scope to refer to: (1) approval by the Incident Commander to begin patrols and restoration of power for any de-energized circuit or circuit segment, or (2) a final decision to remove a circuit or circuit segment from scope after the Period of Concern is over for that circuit or segment on the monitored circuit list that was not de-energized during the PSPS event.

<sup>&</sup>lt;sup>25</sup> Whenever possible, SCE employs circuit-switching operations and/or sectionalization devices to minimize the number of customers in scope for proactive de-energization. As a result, some customers on a circuit in scope may briefly lose power while SCE switches them to an energized adjacent circuit or when SCE uses sectionalization devices to isolate portions of a circuit that can remain safely energized from de-energized segments of that same circuit or an adjacent circuit. The reported count of "total customers de-energized" does not include customers who experience a brief (30 minutes or less) power interruption during such switching and/or sectionalization operations, but who are not otherwise impacted by the proactive de-energization.

- Medical Baseline (MBL) customers de-energized
- AFN other than MBL customers de-energized<sup>26</sup>
- Other Customers
- Distribution or transmission classification

**Table 5: Circuits De-Energized**<sup>27</sup>

<b>Circuits De-Ene</b>	Circuits De-Energized								
County	Circuit Name	De-energization Date	De-energization Time (2400)	All Clear Declaration Date	All Clear Declaration Time (2400)	Restoration Date	Restoration Time (2400)	GO 95, Tier HFTD Tier(s) 1,2,3	Distribution / Transmission Classification
INYO	BIRCHIM	10/27/2024	19:37	10/28/2024	19:39	10/29/2024	10:00	Non HFRA, T2	Distribution
SAN BERNARDINO	DOBLE	10/28/2024	15:29	10/28/2024	18:33	10/29/2024	8:26	Non HFRA, T2	Distribution
SAN BERNARDINO	SCOUT	10/28/2024	15:29	10/28/2024	18:33	10/29/2024	8:26	T2	Distribution

<b>Circuits De-Ene</b>	Circuits De-Energized (cont.)							
County	Circuit Name	Residential Customers De-energized	Commercial / Industrial customers De-energized	l Baseline	AFN other than MBL customers De-energized	Total customers De-energized	GO 95, Tier HFTD Tier(s) 1,2,3	Other Customers
INYO	BIRCHIM	81	3	2	7	84	Non HFRA, T2	
SAN BERNARDINO	DOBLE	1	1	0	0	2	Non HFRA, T2	
SAN BERNARDINO	SCOUT	3	0	0	0	3	T2	

## Section 4. Damage and Hazards to Overhead Facilities

1. Description of all found wind-related damages or hazards to the utility's overhead facilities in the areas where power is shut off.

N/A. No wind related damages or hazards were identified related to this de-energization event.

2. A table showing circuit name and structure identifier (if applicable) for each damage or hazard, county that each damage or hazard is located in, whether the damage or hazard is in a High Fire Threat District (HFTD) or non-HFTD and the type of damage/hazard.<sup>28</sup>

**Table 6: Damage and Hazards** 

<sup>&</sup>lt;sup>26</sup> SCE maintains extensive data on customer populations that are included in the AFN definition referenced in CPUC decisions, with a focus on identifying AFN customers particularly vulnerable during PSPS events. In addition to AFN customers who have self-certified as sensitive (not enrolled in the MBL program), SCE identifies and tracks for PSPS reporting purposes the following categories of "AFN other than MBL customers": senior citizens (65 and older), hearing-impaired, vision-impaired (communications provided in large font or Braille), income-qualified (enrolled in CARE or FERA), and non-English speakers. SCE also reports on impacted customers that provide shelter to the homeless population, as these entities are included among critical facilities and infrastructure.

<sup>&</sup>lt;sup>27</sup> The sum of (i) residential customers de-energized, (ii) commercial/industrial customers de-energized, and (iii) other customers equals the total number of customers de-energized per circuit for this event. The count of "Residential Customers De-energized" includes sub-categories of" "Medical Baseline customers De-energized" and "AFN other than MBL customers De-energized."

<sup>&</sup>lt;sup>28</sup> Hazards are conditions discovered during restoration patrolling or operations that might have caused damages or posed an electrical arcing or ignition risk had PSPS not been executed.

N/A. No wind related damages or hazards were identified related to this de-energization event.

3. A zipped geodatabase file that includes the PSPS event damage and hazard points. The file should include fields that are in the table above.

N/A. No wind related damages or hazards were identified related to this de-energization event.

4. A PDF map identifying the location of each damage or hazard.

N/A. No wind related damages or hazards were identified related to this de-energization event.

### Section 5. Notification

1. A description of the notice to public safety partners, local/tribal governments, paratransit agencies that may serve all the known transit or paratransit dependent persons that may need access to a community resource center, multi-family building account holders/building managers in the AFN community<sup>29</sup>, and all customers, including the means by which utilities provide notice to customers of the locations/hours/services available for CRCs, and where to access electricity during the hours the CRC is closed.

SCE includes paratransit agencies that may be de-energized in its PSPS notifications and classifies these agencies overall as critical facilities and infrastructure to ensure they receive priority notifications. All multi-family building SCE account holders receive customer notifications. In its customer notification, SCE directs potentially impacted customers to <a href="www.sce.com/psps">www.sce.com/psps</a> for information related to the location, hours, and services available at Community Resource Centers. Instructions on where customers can access electricity during the hours the centers are closed have been made available on the SCE website. Please see the table below for a description of the types of notices provided during this de-energization event.

<sup>&</sup>lt;sup>29</sup> SCE generally notifies multi-family building account holders along with other customers of record in scope for a potential de-energization. SCE does not currently have a way to identify which multi-family building account holders have residents in their buildings who may be members of the AFN community. SCE conducts PSPS-related outreach via flyers and trade publications to increase awareness of PSPS among building/property managers who are not account holders. SCE also instituted an address-level alert program, which allows non-SCE account holders (such as building/property managers) to sign up for PSPS alerts for specific addresses.

	Notification Descriptions							
Type of Notification	Recipients	Description <sup>30</sup>						
Advance Initial or Initial	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Initial notification of potential PSPS event when circuits are first identified for potential deenergization (72-48 hours before potential deenergization)						
	Other Customers (including multi-family building account holders).	Initial notification of potential PSPS event (48-24 hours before potential de-energization).						
Update	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).  Other Customers (including	PSPS event status update notification to alert for any changes or additions/deletions to current scope (timing varies and may also occur daily). Update notice to Public Safety Partners may also serve as cancellation notice if circuits are removed from scope.						
	multi-family building account holders).							
Expected	Public Safety Partners and all Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Power shutoff expected soon (1-4 hours before potential deenergization).						

<sup>&</sup>lt;sup>30</sup> SCE makes every effort to adhere to the notification timelines required by the CPUC. However, notifications may be delayed in some circumstances Please see Table 9 for more information specific to this event.

Notification Descriptions					
Type of Notification	Recipients	Description <sup>30</sup>			
	Other Customers (including multi-family building account holders).				
Shutoff	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	Power has been shut off (when deenergization is initiated).			
	Other Customers (including multi-family building account holders).				
Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).  Other Customers (including multi-family building account		Inspection/patrols of de-energized circuits for PSPS restoration has begun and power will be restored shortly.			
Restored No Longer in Scope	holders).  Public Safety Partners and Critical Facilities & Infrastructure (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit	Power has been restored and no longer in scope for this event.			

Notification Descriptions					
Type of Notification	Recipients	Description <sup>30</sup>			
	agencies serving the AFN community).  Other Customers (including multi-family building account holders).				
Restored In Scope	Public Safety Partners and Critical Facilities & Infrastructure Customers (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).  Other Customers (including multi-family building account holders).	Power has been temporarily restored, PSPS risk still remains.			
Event Avoided Cancellation	Critical Facilities & Infrastructure (including Community Choice Aggregators, hospitals, water/wastewater, and telecommunications providers). Other Customers (including multi-family building account holders).	PSPS event cancelled-no de- energization expected.			

2. Notification timeline including prior to de-energization, initiation, restoration, and cancellation, if applicable. The timeline should include the required minimum timeline and approximate time notifications were sent.

Throughout the PSPS event, SCE made significant effort to notify public safety partners, local/tribal governments, critical facilities and infrastructure, and customers in accordance with the minimum timelines set forth by the CPUC weather and other factors permitting. Table 07: Notification Timeline in Attachment C: PSPS Event Data Workbook describes the notifications SCE sent for this event, including approximate time notifications were sent to local/tribal

governments, public safety partners, critical facilities and infrastructure, and other customers prior to potential de-energization and after the decision to cancel the de-energization or remove from scope.

3. For those customers where positive or affirmative notification was attempted, use the following table to report the accounting of the customers (which tariff and/or access and functional needs population designation), the number of notification attempts made, the timing of attempts, who made the notification attempt (utility or public safety partner) and the number of customers for whom positive notification was achieved. "Notification attempts made" and "Successful positive notification" must include the unique number of customer counts. When the actual notification attempts made is less than the number of customers that need positive notifications, the utilities must explain the reason. In addition, the utilities must explain the reason and unsuccessful positive notifications.

Table 8: Positive Notification<sup>31</sup>

<b>Positive Notification</b>					
Category	Total Number of Customers	Timing of Attempts	Notification Attempts	Successful Positive Notification	Who made the notification
Medical Baseline	132	DAILY	137	132	SCE
Self Certified	36	DAILY	39	36	SCE

4. A copy or scripts of all notifications with a list of all languages that each type of notification was provided in, the timing of notifications, the methods of notifications and who made the notifications (utility or public safety partners).

Scripts of all notifications that SCE sends are attached hereto in Attachment A: Public Safety Partner/Customer Notification Scripts. SCE performs all primary customer notifications and encourages public safety partners to amplify PSPS messages on their platforms as appropriate. SCE offers all notifications in the following languages: English, Spanish, Cantonese, Mandarin, Vietnamese, Tagalog, and Korean, Khmer, Armenian, Farsi, Arabic, Japanese, Russian, Punjabi, Thai, Hmong, Portuguese, Hindi, French, German, Mixteco (indigenous - spoken only), Zapoteco (indigenous - spoken only), and Purapecha (indigenous - spoken only).

5. If the utility fails to provide notifications according to the minimum timelines set forth in D.19-05-042 and D.21-06-034, use the following table to report a breakdown of the notification failure and an explanation of what caused the failure.

Throughout the PSPS event, SCE made significant effort to notify public safety partners,

<sup>&</sup>lt;sup>31</sup> The "Total Number of Customers" metric reflects the total number of MBL and Self-Certified customers in scope for the PSPS event. The "Notification Attempts" metric reflects the count of MBL and Self-Certified customers – both in scope and de-energized – whom SCE attempted to notify prior to de-energization. Notification attempts include automated notification, secondary verification by Consumer Affairs and escalated contact attempts, up to and including door rings, if necessary, to confirm successful delivery of notifications to Medical Baseline and Self-Certified customers. The "Successful Positive Notification" metric reflects the number of unique MBL and Self-Certified customers – both in scope and de-energized – who were successfully notified of the PSPS event prior to de-energization or anticipated deenergization.

local/tribal governments, critical facilities and infrastructure, and customers in accordance with the minimum timelines set forth by the CPUC in PSPS Phase 1 Guidelines (D.19-05-042), weather and other factors permitting. Any missed notifications during the event are included in the following table.

Table 9: Breakdown of Notification Failure

Breakdown of Noti	Breakdown of Notification Failures						
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation				
	Entities who did not receive 48-to 72-hour advance notification.	0					
	Entities who did not receive 1-4-hour imminent notification.	0					
Public Safety Partners excluding Critical	Entities who did not receive any notifications before de- energization.	0					
Facilities and Infrastructure	Entities who were not notified immediately before reenergization.	0					
	Entities who did not receive cancellation notification within two hours of the decision to cancel.	0					
	Facilities who did not receive 48-72-hour advance notification.	0					
Critical Facilities and Infrastructure	Facilities who did not receive 1-4 hour of imminent notifications.	4	1 campaign authorized less than 1 hour, successfully sent 3 campaign authorized more than 4 hours, successfully sent				
	Facilities who did not receive any notifications before de- energization.	0					
	Facilities who were not notified at de-energization initiation.	0					
	Facilities who were not notified immediately before reenergization.	0					
	Facilities who were not notified when re-energization is complete.	0					

Breakdown of Notification Failures					
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation		
	Facilities who did not receive cancellation notification within two hours of the decision to cancel.	0			
	Customers who did not receive 24–48-hour advance notifications.	1	no contact information / message send error		
	Customers who did not receive 1-4-hour imminent notifications.	82	<ul><li>1 no contact information / message send error</li><li>4 campaign authorized less than 1 hour, successfully sent</li></ul>		
All other affected customers			77 campaign authorized more than 4 hours, successfully sent		
	Customers who did not receive any notifications before de- energization.	1	no contact information / message send error		
	Customers who were not notified at de-energization initiation.	1	no contact information / message send error		
	Customers who were not notified immediately before reenergization.	1	no contact information / message send error		
	Customers who were not notified when re-energization is complete.	1	no contact information / message send error		
	Customers who did not receive cancellation notification within two hours of the decision to cancel.	8	8 no contact information / message send error		

Advanced notifications were sent outside of the required window, four Critical Care and 81 customers received 1-4 notifications either more than 4 hours or less than 1 hour from the time of de-energization due to circuits not being forecasted in scope ahead of the Period of Concern, or the sudden onset of stronger-than-expected winds. SCE is continuing to expand its machine learning modeling capabilities to further enhance the accuracy of its forecasts. While machine

learning will continue to improve models, weather forecasting will always be subject to uncertainty, especially at a granular level.

During this event, SCE was unable to provide 10 notifications to 6 customers due to missing contact information. The company is exploring alternative methods to obtain this information, including call center scripts, direct mailers, and other sources.

Due to customer move-ins and move-outs during the event, three customers did not receive cancellation notifications.

### 6. Explain how the utility will correct the notification failures.

Please see the explanations above in section 5 for a description of how SCE will correct the notification failures.

# 7. Enumerate and explain the cause of any false communications citing the sources of changing data.

Missed/Insufficient Notification:

N/A

**Incorrect Notification:** 

N/A

#### **Cancellation Notification:**

Apart from any missed notifications described in table 9, if applicable, SCE sent cancellation notices to all other customers that were notified of potential de-energization but not ultimately de-energized during this event. SCE notifies customers on circuits in scope for potential de-energization ahead of the Period of Concern based on its assessment of the likelihood that winds will exceed PSPS thresholds. De-energization was not necessary for these customers because forecast fire weather conditions did not materialize in those areas, and the customers were notified of the cancellation after being removed from scope.

### Section 6. Local and State Public Safety Partner Engagement

1. List the organization names of public safety partners including, but not limited to, local governments, tribal representatives, first responders, emergency management, and critical facilities and infrastructure the utility contacted prior to de-energization, the date and time on which they were contacted, and whether the areas affectedby the deenergization are classified as Zone 1, Tier 2, or Tier 3 as per the definition in CPUC General Order 95, Rule 21.2-D.

Please see Table 10: Public Safety Partners Contacted in Attachment C: PSPS Event Data Workbook for a list of local public safety partners that received notifications related to this event.

2. List the names of all entities invited to the utility's Emergency Operations Center for a PSPS event, the method used to make this invitation, and whether a different form of communication was preferred by any entity invited to the utility's emergency operation center.

SCE extends a daily invitation for agency representatives to its Emergency Operations Center (currently virtual only) during agency coordination calls with public safety partners and critical infrastructure providers, as applicable during PSPS events. SCE also shares daily situational reports from these calls with all impacted public safety partners and critical infrastructure providers that includes contact information for requesting/receiving an agency representative to the Emergency Operations Center. No entities invited to the virtual Emergency Operations Center preferred a different form of communication during this event. Please see Table 11: Entities Invited to the Emergency Operations Center in Attachment C: PSPS Event Data Workbook for a list of agencies invited to the daily coordination calls.

3. A statement verifying the availability to public safety partners of accurate and timely geospatial information, and real time updates to the GIS shapefiles in preparation for an imminent PSPS event and during a PSPS event.

After the EOC was activated, SCE provided geospatial information and near real-time updates to the SCE Representational State Transfer Service (REST) to public safety partners before and during the PSPS event. SCE also made this information available to customers at <a href="https://www.sce.com/psps">www.sce.com/psps</a> and provided this information to public safety partners on its Public Safety Partner Portal (Portal).

4. A description and evaluation of engagement with local and state public safety partners in providing advanced outreach and notification during the PSPS event.

SCE submitted the CalOES Notification form via the State Dashboard beginning on October 24, 2024 at 12:54 p.m. SCE conducted daily operational briefings with State and local public safety partners, as well as critical infrastructure entities, for the duration of this PSPS event to provide critical incident updates and a forum for resolving issues. See Table 10: Public Safety Partners Contacted in Attachment C: PSPS Event Data Workbook details a list of local public safety partners that received notifications related to this event.

Impacted State and County emergency management agencies and critical infrastructure customers are polled at the close of each event to provide feedback, however only three partners responded to this survey. Of the three respondents, one rated the engagement as excellent and the remaining respondents provided no rating.

5. Specific engagement with local communities regarding the notification and support provided to the AFN community.

SCE provided notification of this PSPS event to the 211 California Networks, Regional Centers, Independent Living Centers, and American Red Cross chapters that serve their respective counties. SCE contacted Community-Based Organizations (CBOs) to alert them of potential PSPS outages in the areas that they serve. SCE also provided 24-hour contact information to these agencies if they needed to escalate any unidentified community issues. In partnership with the CBOs in each area of concern, SCE offered services to customers such as transportation, food support, and temporary accommodations.

- 6. Provide the following information on backup power (including mobile backup power) with the name and email address of a utility contact for customers for each of the following topics:
  - a) Description of the backup generators available for critical facility and infrastructure customers before and during the PSPS.

SCE maintains 10 mobile generators for use by critical facilities and infrastructure customers during PSPS events, as needed. SCE has contracts with vendors to lease additional units during emergency events when the need arises for critical care customers.

b) The capacity and estimated maximum duration of operation of the backup generators available for critical facility and infrastructure customers before and during the PSPS.

The generators SCE maintains for PSPS events are rated at 25-100 KW and have an estimated maximum duration of operation of 24-36 hours with a continuous fuel plan to ensure there is no interruption of power while the generators are deployed for usage.

c) The total number of backup generators provided to critical facility and infrastructure customer's site immediately beforeand during the PSPS.

SCE deployed one 50kW generator to support a resiliency zone (RZ) identified in Bridgeport.

d) How the utility deployed this backup generation to the critical facility and infrastructure customer's site.

SCE partnered with United Rentals for generator deployment. United Rentals delivered the generator to the site on October 26, 2024 at 10:37 a.m. and an SCE field crew connected the generator to the manual switch on the facility on October 26, 2024 at 12:44 p.m. Once the period of concern elapsed the generator was disconnected from the switch and the generator was picked up from the facility and off-rented back to United Rentals.

e) An explanation of how the utility prioritized how to distribute available backup generation.

N/A. There was only one generator deployment request for this activation. There was no need to prioritize how to distribute generators.

f) Identify the critical facility and infrastructure customers that received backup generation.

Bridgeport General Store and Deli, 242 Main Street, Bridgeport, CA 93517, which is a preidentified resiliency zone (RZ) for the Bridgeport community.

Any questions related to the information under this item may be directed to SCE at the following e-mail address: <a href="mailto:SCECEDCustomerSupport@sce.com">SCECEDCustomerSupport@sce.com</a>. 32

### Section 7. Complaints and Claims

1. The number and nature of complaints received as the result of the de-energization event and claims that are filed against the utility because of de-energization. The utility must completely report all the informal and formal complaints, meaning any expression of grief, pain, or dissatisfaction, from various sources, filed either with CPUC or received by the utility as a result of the PSPS event.

There were 10 reported complaints, and zero claims associated with this PSPS event. SCE will include any complaints or claims related to this PSPS event received after the filing of date of this report in its annual post-season report.

<sup>&</sup>lt;sup>32</sup> Although there is no designated contact person for questions, this e-mail inbox is monitored by SCE's Customer Engagement Division.

**Table 12: Count and Nature of Complaints Received** 

Count and Nature of Complaints Received		
Nature of Complaints		
<b>PSPS Frequency/Duration</b> Including, but not limited to complaints regarding the frequency and/or duration of PSPS events, Including delays in restoring power, scope of PSPS and dynamic of weather conditions.	7	
Safety/Health Concern Including, but not limited to complaints regarding difficulties experienced by AFN/MBL populations, traffic accidents due to non-operating traffic lights, inability to get medical help, well water or access to clean water, inability to keep property cool/warm during outage raising health concern	2	
Communications/Notifications Including, but not limited to complaints regarding lack of notice, excessive notices, confusing notice, false alarm notice, problems with getting up-to-date information, inaccurate information provided, not being able to get information in the prevalent languages and/or information accessibility, complaints about website, Public Safety Partner Portal, REST/DAM sites (as applicable)	1	
<b>Outreach/Assistance</b> Including, but not limited to complaints regarding community resource centers, community crew vehicles, backup power, hotel vouchers, other assistance provided by utility to mitigate impact of PSPS	0	
<b>General PSPS Dissatisfaction/Other</b> Including, but not limited to complaints about being without power during PSPS event and related hardships such as food loss, income loss, inability to work/attend school, plus any PSPS-related complaints that do not fall into any other category.	0	
Total	10	

### Table 13: Count and Type of Claims Received

No claims were received for this event.

### Section 8. Power Restoration Timeline

1. A detailed explanation of the steps the utility took to restore power, including the timeline for power restoration, broken down by phase if applicable.

SCE began the re-energization process after fire weather conditions subsided, there was no further threat of fire weather forecasted for the areas of concern, and the Incident Commander approved restoration operations. All circuit restoration during this event was guided by safety considerations, including safety risks associated with patrolling certain circuits at night.

Please see Table 5 for details related to customer re-energizations, including restoration date, restoration time, and total customer count by circuit.

Re-energization on these circuits occurred after the authorization to patrol and restore was declared by the Incident Commander. The Incident Commander made the decision to restore these customers based on a recommendation from Operations and input from Weather Services due to the observed improvement in weather conditions.

2. For any circuits that require more than 24 hours to restore, the utility shall use the following table to explain why it was unable to restore each circuit within this timeframe.

#### **Table 14: Circuits Requiring More Than 24 Hours to Restore**

N/A. No circuits required more than 24 hours to restore.

## Section 9. Community Resource Centers

1. Using the following table, report information including the address of each location during a de-energization event, the location (in a building, a trailer, etc.), the assistance available at each location, the days, and hours that it was open, and attendance (i.e., number of visitors).

**Table 15: Community Resource Centers** 

Community Resource Centers  Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Millpond Recreation Area parking lot Sawmill Rd. Bishop, CA 93514	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 8AM to 10PM 10/28/2024 8AM to 7PM 10/29/2024 8AM to 10:50 AM	128
Riverside Park parking lot 10 Kern River Dr. Kernville, CA 93238	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 10AM to 7PM	17
Bridgeport Memorial Hall Community Center parking lot 73 North School St. Bridgeport, CA 93517	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 8AM to 10PM 10/28/2024 8AM to 11AM	31
Crowley Lake Community Center parking lot 482 S. Landing Rd., #474 Mammoth Lakes, CA 93546	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice, blankets, firewood, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 8AM to 9:45 PM 10/28/2024 9AM to 4 PM	28

Community Resource Centers				
Address	Location Type	Describe the assistance available	Hours of Operations¹ (Date / Time)	Number of Visitors
Forestry Station parking lot 34701 Millcreek Rd. Mentone, CA 92359	CCV	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 6PM to 10PM 10/28/2024 8 AM to 7:30 PM	11
Residence Inn Goleta 6350 Hollister Ave. Goleta, CA 93117	CRC - Indoor	Small portable device charging (such as a cell phone, laptop, and small medical devices), chairs, seasonal cooling, and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.	10/27/2024 1PM to 9:30 PM	0

# 2. Any deviations and explanations from the CRC requirement including operation hours, ADA accessibility, and equipment.

SCE deployed staff to provide community assistance to a total of six locations in Inyo, Kern, Mono, San Bernardino, and Santa Barbara Counties. During a PSPS event, SCE will at times deviate from the normal hours of CRC operation (8:00 a.m. to 10:00 p.m.) to better align with the Period of Concern (POC) and provide appropriate customer support to best meet the needs of the community, or when circuits have been re-energized and customer support is no longer necessary.

On October 27, SCE closed the CCV site in Kern County and the CRC site in Santa Barbara County at 7:00 p.m. and 9:30 p.m., respectively because the POC had passed, and no customers were deenergized. On October 28, SCE demobilized two CCV sites in Mono County, one at 11:00 a.m. and the other at 4:00 p.m., because the POC had passed, and no customers were de-energized. SCE also demobilized the CCV site in San Bernardino County at 7:30 p.m. on October 28 for the same reasons. The CCV site in Inyo County was closed on October 29 at 10:50 a.m. after all customer load had been restored.

#### 3. A map identifying the location of each CRC and the de-energized areas.



# Section 10. Mitigation to Reduce Impact

1. Mitigation actions and impacts including: sectionalization devices, temporary generation, microgrids, permanent backup generation, transmission switching, covered conductor, and any other grid hardening that mitigated the impact of the event.

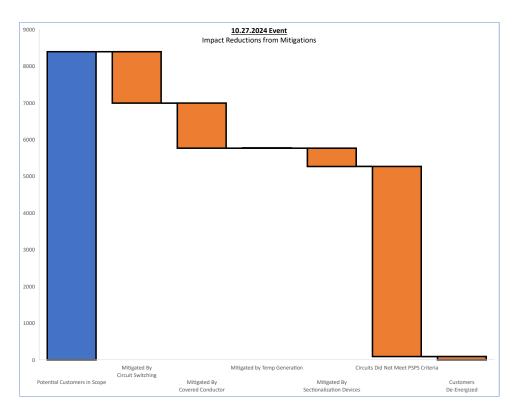
Prior to the Period of Concern, SCE used circuit playbooks to identify circuit switching that could reduce the number of customers in scope for potential de-energization. SCE transferred over 1,398 customers from circuits on the monitored circuit list to adjacent circuits not in scope pursuant to the then-current forecast, thereby maintaining service to these customers throughout the event.

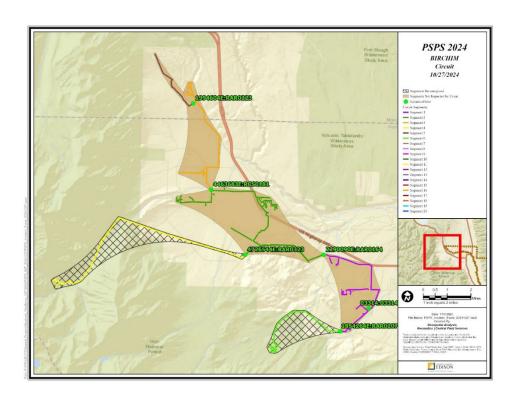
In addition, the replacement of bare wire with covered conductor allowed SCE to raise deenergization windspeed thresholds and thus reduced potential de-energization impacts to customers on portions of two circuits.

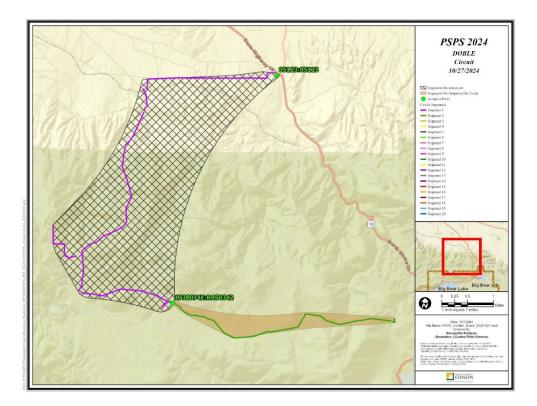
With the above-discussed mitigations in place, SCE was able to limit de-energization to 89 customers.

The waterfall graphs and maps below illustrate the impacts of SCE's mitigation measures over the course of the PSPS event where circuit switching, covered conductor, and/or sectionalization devices were successfully deployed to limit the scope of potential or actual de-energization.<sup>33</sup>

<sup>&</sup>lt;sup>33</sup> "Circuits Did Not Meet PSPS Criteria" in the waterfall graph denotes customers on circuits in scope that were not ultimately de-energized. These customers were not switched to adjacent circuits, were not on circuits with covered conductor, and did not require the use of sectionalization devices.







# Section 11. Lessons Learned

1. Threshold analysis and the results of the utility's examination of whether its thresholds are adequate and correctly applied in the de-energized areas.

This PSPS event was relatively small in scope, but did have some variability in winds based on the movement of a Pacific storm that initially brought moderate onshore winds and culminated with offshore winds as it moved inland. The NWS issued Red Flag Warnings in the de-energized area of Mono County and Wind Advisories for the de-energized areas of San Bernardino County, corroborating the increased wind and fire weather risks forecasted by SCE. These factors, together with fire modeling that forecasted fire sizes of 2,000 to 7,000 acres, did not warrant discounting or otherwise adjusting thresholds (as detailed above in Section 2) due to event complexity, circuit prioritization, emergent grid conditions and/or complex interaction of weather systems across our service area.

To further refine the thresholds, SCE gathers data from restoration patrols conducted during every de-energization event and records any evidence of damage to SCE infrastructure during de-energization. These damage data points are incorporated into SCE's machine learning models which are used to predict the probability of failure for SCE assets. This model, along with fire consequence modelling, is the basis for SCE's Wildfire Mitigation Plan.

The probability of failure does not directly affect SCE's PSPS de-energization thresholds. SCE's PSPS de-energization thresholds are determined with the fundamental consideration that a fire in high wind and dry fuel conditions is not an acceptable risk for SCE, our customers, or our communities. Also, failing to find damage during a restoration patrol does not mean that the deenergization did not prevent a fire or that the thresholds were too low; wind-blown debris may

result in faults that could be the source of an ignition if the lines were energized, but may not be observable during a restoration patrol if the debris subsequently blew out of the line or environmental conditions had otherwise changed.

Therefore, SCE believes its de-energization thresholds were appropriate for this event and functioned as intended. Additional details about SCE's thresholds can be found in Attachment B - Quantitative and Qualitative Factors in PSPS Decision-Making Technical Paper.

2. Any lessons learned that will lead to future improvement for the utility.

Lessons Learned		
Issue	Discussion	Resolution
SCE.com - The language translator on the Public Safety Partner Portal was not functioning.	External partners reported difficulties accessing the language translator, unable to switch from English to Spanish on the Public Safety Partner Portal.	Root cause has been identified and the issue has been resolved.

# Section 12. Other Relevant Information

1. This section includes any other relevant information determined by the utility.

N/A

# Attachment A-Public Safety Partner and Customer Notification Scripts

# <u>Template language for all notifications (after notification language)</u>

SCE Emergency Operations Center and IMT are activated. Contact information is provided below.

**Message cadence:** The SCE Liaison Officer provides a rolling three-day advance warning of potential PSPS events, when possible, and sends update notifications every day. We will also notify you with time-sensitive shutoff and restoration information at the circuit level. Sudden weather changes may impact SCE's ability to provide advanced notice: a shutoff could occur sooner than anticipated.

**Spreadsheet content:** All circuits currently on the watch list in your county are listed in the attached spreadsheet. As we get closer to the event and the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Definitions are on the second tab of the spreadsheet.

Not all circuits on the watch list will have their power shut off. We are working to reduce the number of customers affected and weather patterns might change.

Customers on the affected circuits are being notified if they are within two days of the period of concern, or if there has been a change to their status.

#### Outage maps and other detailed information are available at the following locations:

- Maps showing PSPS boundaries and locations of about Community Resource Centers and Community Crew Vehicles: <a href="https://www.sce.com/outage-center/check-outage-status">https://www.sce.com/outage-center/check-outage-status</a>
- Public Safety Partner Portal (for emergency officials)
  - o <a href="https://publicsafetyportal.sce.com">https://publicsafetyportal.sce.com</a>
  - o Email <u>publicsafetyportal@sce.com</u> to request access.
- REST service (web-based password-protected access to GIS layers)
  - SCERestInfo@sce.com to request access.

#### SCE Contact Information for Public Officials only (DO NOT share with the public)

- First Responders and Emergency Managers:
  - o Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478
  - Email: Business Resiliency Duty Manager/emergencies:
     <u>BusinessResiliencyDutyManager@sce.com</u> Note: Only monitored during emergency activations.
- Government/tribal officials:
  - Phone Liaison (government relations) 24/7 hotline: 800-737-9811. Note: Only monitored during emergency activations.
  - Email SCELiaisonOfficer@sce.com. Note: Only monitored during emergency activations.
- Access and Functional Needs issues:
  - Phone AFN Liaison Officer 24/7 hotline: 888-588-5552. Only monitored during emergency activations.
  - Email: AFNIMT@sce.com. Note: Only monitored during emergency activations.

# Information available for the general public:

- SCE Contact Information for the Public: (Please share via web and social media).
  - Outage specific customer service issues: 800-611-1911
  - Billing and service inquiries: 800-684-8123

- Maps showing PSPS boundaries and locations of about Community Resource Centers and Community Crew Vehicles: https://www.sce.com/outage-center/check-outage-status
- General information on PSPS: www.sce.com/psps
- De-energization and restoration policies: sce.com/pspsdecisionmaking
- Information on emergency preparedness, customer notifications, customer programs and other resources: www.sce.com/wildfire
- Seven-day PSPS forecasts <a href="https://www.sce.com/wildfire/weather-awareness">https://www.sce.com/wildfire/weather-awareness</a>
- Fire and weather detection map <a href="https://www.sce.com/wildfire/situational-awareness">https://www.sce.com/wildfire/situational-awareness</a>

# Advanced Initial (72-hour) LNO Notification (Advanced Initial)

**Text Language:** Important: SCE Advanced Initial Notice for PSPS Event in {County} CO on {Start POC Date}. Please see your inbox for more details.

# **Email Notification Subject Line and Message**

Advanced Initial Notice for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

COMMENTS:

**Public Safety Power Shutoff initial notification for official use:** Due to projected fire weather conditions, we may need to shut off power in high fire risk areas in <a href="COUNTY NAME">COUNTY NAME</a>. Please refer to the attached spreadsheet for status and periods of concern for specific circuits.

**Recommended Language to Share with the Public**: SCE has informed us they may be calling for a Public Safety Power Shutoff impacting (insert organization name) on (insert date). SCE will notify all customers who may be affected, including Critical Care and Medical Baseline customers. For more info: <a href="mailto:sce.com/psps">sce.com/psps</a>

When the weather improves, and restoration is authorized, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Restoration can be delayed if damage is found, or daylight is needed for safe aerial or ground patrol. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

# **Updated Conditions (Update) Notification**

**Text Language:** Important: SCE Update/Initial Notice for PSPS Event in {County} CO. Please see your inbox for more details.

#### **Notification Subject Line and Message:**

SCE Update/Initial Notice for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time] .

COMMENTS:

#### Public Safety Power Shut-Off update notification for official use:

Due to projected fire weather conditions, we may need to shut off power in high fire risk areas, in COUNTY NAME. Please refer to the attached spreadsheet for status and periods of concern for specific circuits.

**Recommended Language to Share with the Public**: SCE has informed us there may be a Public Safety Power Shutoff impacting (insert organization name) on (insert date). SCE will notify all customers who may be affected, including Critical Care and Medical Baseline customers. For more info: <a href="mailto:sce.com/psps">sce.com/psps</a>

When the weather improves, and restoration is authorized, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Restoration can be delayed if damage is found, or daylight is needed for safe aerial or ground patrol. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

\_\_\_\_\_\_

# Expected De-Energize Notification (previously: Imminent De-Energization) (PSPS Expected)

**Text Language:** Important: SCE Expected Shutoff Notice for PSPS Event on {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

# **Email Notification Subject Line and Message:**

SCE Expected Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time].

**Public Safety Power Shutoff update notification for official use:** SCE may need to shut off power in the next 4 hours to reduce the risk of wildfire ignition. Areas that may be impacted include:

Circuit: [CIRCUIT name]

• County:

Segment: [if listed]Incorporated City of:

• Unincorporated County Area:

COMMENTS:

Shutoffs may occur earlier or later depending on actual weather conditions. This notice expires after 4 hours; however, the listed circuit(s) will remain on the watch list and will be subject to PSPS until the conclusion of this weather event.

**Recommended Language to Share with the Public:** SCE has informed us they are likely to call a Public Safety Power Shutoff impacting (insert organization name) within the next four hours. SCE will notify all customers who may be affected. For more info: sce.com/psps

When the weather improves, and restoration is authorized, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Restoration can be delayed if damage is found, or daylight is needed for safe aerial or ground patrol. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

# **PSPS Shutoff Notification (De-energization notification)**

**Text Language:** Important: SCE PSPS Shutoff Notice for {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

#### **Email Notification Subject Line and Message:**

SCE PSPS Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time].

**Public Safety Power Shutoff update notification for official use:** SCE is shutting off power to reduce the risk of wildfire ignition.

Impacted circuits and locations are:

- Circuit: [CIRCUIT name]
- County: [COUNTY NAME].
- Segment:
- Incorporated City of: [Incorporated City]
- Unincorporated County Area: [unincorporated area description]
- Comment:

**Recommended Language to Share with the Public:** SCE has begun a Public Safety Power Shutoff. SCE notified customers who may be affected, including Critical Care and Medical Baseline customers. For more information visit <a href="mailto:sce.com/psps">sce.com/psps</a>

When the weather improves, crews will inspect and repair the lines and restore power. Typ When the weather improves, and restoration is authorized, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Restoration can be delayed if damage is found, or daylight is needed for safe aerial or ground patrol. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

#### (Preparation for Restoration)

**Text Language:** Important: SCE Preparation for Restoration {Circuit(s)} Circuit in {County}. Please see your inbox for more details.

# **Email Notification Subject Line and Message:**

Preparation for Restoration [CIRCUIT NAME] Circuit Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time].

**Public Safety Power Shutoff update notification for official use:** SCE crews are inspecting the following circuits or circuit segments to restore power as soon as it is safe to do so:

- Circuit: [CIRCUIT name]
- Segment(s): if entered in Foundry
- Incorporated City: [incorporated city]

- Unincorporated County Area: [unincorporated area description]
- Comments:

**Recommended Language to Share with the Public**: SCE has begun patrolling circuits for damage before turning the power back on. It typically takes up to 8 hrs to restore power once the patrol begins. Restoration can be delayed if damage is found, or aerial patrol is needed. For more info visit <a href="sce.com/psps">sce.com/psps</a>

When the weather improves, and restoration is authorized, crews will inspect and repair the lines and restore power. Typically, this can take up to 8 hours. Restoration can be delayed if damage is found, or daylight is needed for safe aerial or ground patrol. Updates to restoration information will be posted on www.sce.com/psps and on the Public Safety Partner Portal.

\_\_\_\_\_\_

#### Restore Notification (formerly: RE-ENERGIZE) Restoration Notification

**Text Language:** Important: SCE Restoration Notice for PSPS Event on {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

#### **Email Notification Subject Line and Message:**

Important: SCE Restoration Notice for PSPS Event on [CIRCUIT NAME] Circuit Shutoff Notice for [CIRCUIT NAME] Circuit for PSPS Event starting [start POC DATE] in [COUNTY NAME] as of [current date] [current time].

Public Safety Power Shutoff update notification for official use:

SCE crews have restored power on the following circuit or circuit segments:

- Circuit: [CIRCUIT name]
- Segment(s): if entered in Foundry
- Incorporated City: [incorporated city]
- Unincorporated County Area: [unincorporated area description]
- Comment:

**Recommended Language to Share with the Public:** SCE has begun turning power back on to circuits. Some areas may be restored sooner than others. For more info visit sce.com/psps

\_\_\_\_\_

#### Cancellation no longer in scope

Description: Sent within two hours after a circuit no longer in scope for PSPS

**Text Language:** Important: SCE PSPS Cancellation {Circuit(s)} Circuit in {County} CO. Please see your inbox for more details.

# **Notification Subject Line and Message:**

Important: SCE PSPS Cancellation as of {LNO Authorized Date} {LNO Authorized Time} for PSPS Event {Start POC Date} {Circuit(s)} Circuit in {County} CO.

**Public Safety Power Shutoff update notification for official use:** Due to improved conditions SCE is no longer planning to shut off power the circuit listed below.

• Circuit: [CIRCUIT name]

County:

Segment: [if listed]Incorporated City of:

Unincorporated County Area:

Language to share with the public: Some customers in our area are no longer in scope for public safety power shutoffs. Check sce.com/outages for more information.

#### **Event Concluded Notification**

Text Language Important: SCE PSPS Event Concluded in {County} CO. Please see your inbox for more details.

# **Email Notification Subject Line and Message:**

SCE PSPS Event Concluded in [COUNTY NAME].

Public Safety Power Shutoff update notification for official use:

If customers were de-energized, power has been restored and the PSPS event has concluded.

**Recommended Language to Share with the Public**: The public safety power shutoff in your area has concluded. If your power is still out, please visit sce.com/outages for more information.

Any circuit that was identified for potential PSPS is All Clear and will not be de-energized for this event

#### 8/2/2024

#### 1 | Advanced Initial [Typically 72 Hours Prior]

[Only for Public Safety Partners (Telecom/Water-Wastewater) and Critical Infrastructure]

#### TEXT/SMS

SCE Advanced PSPS Alert: High winds and fire conditions are forecast from 'Day of week' 'morning/afternoon/evening' through 'End Day of week' 'morning/afternoon/ evening'. We may have to shut off power. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off. For the latest updates, visit <a href="mailto:publicsafetyportal.sce.com">publicsafetyportal.sce.com</a>, contact your assigned SCE account representative, or call 1-800-611-1911.

#### **VOICE**

SCE Advanced Public Safety Power Shutoff Alert: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/ evening^. We may have to shut off power. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off. For the latest updates visit publicsafetyportal dot sce dot com, contact your assigned SCE account representative, or call 1-800-611-1911

#### **EMAIL**

Subject: SCE Public Safety Power Shutoff (PSPS) Advanced Initial Alert

From: do not reply@scewebservices.com Southern California Edison

Amorning/afternoon/evening through Another the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected, and weather patterns might change, so not all notified customers will have their power shut off.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

For the latest updates and availability of community resources, visit <a href="https://publicsafetyportal.sce.com/">https://publicsafetyportal.sce.com/</a> if you are registered, contact your assigned SCE account representative, or call 1-800-611-1911.

#### 2 | Initial Notification [48 HOURS BEFORE] ALERT

#### TEXT/SMS

SCE PSPS Alert: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk during this time. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected and will keep you updated. Visit <a href="sce.com/psps">sce.com/psps</a> for the latest information. For downed power lines, call 911. View in more languages: <a href="www.sce.com/PSPSInitial">www.sce.com/PSPSInitial</a> or view in ASL: <a href="https://ahas.sce.com?id=psps1">https://ahas.sce.com?id=psps1</a>

#### VOICE

SCE Public Safety Power Shutoff Alert. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and fire conditions are forecast from 'Day of week' 'morning/afternoon/evening' through 'End Day of week' 'morning/afternoon/ evening'. We may have to shut off your power to decrease risk of dangerous wildfires. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers affected and will keep you updated. Visit sce dot com slash psps for the latest information. If you see a downed power line call 911.

#### **EMAIL**

**Subject:** SCE Public Safety Power Shutoff Alert

**From:** do not reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÊNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

#### MORE LANGUAGES

# **View in ASL**

High winds and dangerous fire conditions are forecast from 'Day of week' 'morning/afternoon/evening' through 'End Day of week' 'morning/afternoon/evening'.

We may have to shut off your power to decrease risk of dangerous wildfires. Power restoration typically takes 8 hours, and will start after the wind subsides. Delays may occur if daylight is required for safe inspections. We are working to reduce the number of customers whose power will be shutoff and will keep you updated. For the latest updates, outage map, and information about customer care services, visit sce.com/psps.

Thank you for your patience as we work to keep your community safe!

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

- For information about preparing for a power outage, <u>visit</u> sce.com/safety/family/emergency-tips.
- REMEMBER: If you see a downed power line call 911 first, and then notify SCE at 1-800-611-1911.

# 3 | Update Notification [24 HOURS BEFORE] WARNING

#### TEXT/SMS

SCE PSPS Warning: High winds and fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of wildfires. We are working to reduce the number of customers affected and will keep you updated. Visit <a href="sce.com/psps">sce.com/psps</a> for the latest information and availability of community resources. For downed power lines, call 911. View in more languages: <a href="www.sce.com/PSPSUpdate">www.sce.com/PSPSUpdate</a> or view in ASL: <a href="https://ahas.sce.com?id=psps2">https://ahas.sce.com?id=psps2</a>

#### VOICE

SCE Public Safety Power Shutoff warning. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and dangerous fire conditions are forecast from ^Day of week^ ^morning/afternoon/evening^ through ^End Day of week^ ^morning/afternoon/evening^. We may have to shut off your power to decrease risk of wildfires. We are working to reduce the number of customers whose power will be shutoff and will keep you updated. Visit sce dot com slash psps for the latest information and availability of community resources. If you see a downed power line call 911.

#### **EMAIL**

Subject: SCE Public Safety Power Shutoff (PSPS) Warning

From: do not reply@scewebservices.com Southern California Edison

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÊNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

#### MORE LANGUAGES

# **View in ASL**

High winds and dangerous fire conditions are forecast from ^Day of week^

^morning/afternoon/evening^ through ^End day of week^ ^morning/afternoon/evening^.

We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers whose power will be shut off and will keep you updated. For the latest updates, outage map, and availability of community resources, visit <a href="mailto:sce.com/psps">sce.com/psps</a>.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

- For information about preparing for a power outage, visit sce.com/safety/family/emergency-tips.
- REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

Thank you for your patience as we work to keep your community safe!

#### 4 | CANCELLATION

(SENT AT ANY TIME WHEN CUSTOMER IS PERMANENTLY OUT OF SCOPE)

#### TEXT/SMS

SCE PSPS All-Clear: Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thanks for your patience as we work to keep our communities safe. If your power is off, please call 1-800-611-1911 or visit <a href="mailto:sce.com/psps">sce.com/psps</a>. View in more languages: <a href="www.sce.com/PSPSAllClear">www.sce.com/PSPSAllClear</a> or view in ASL: <a href="https://ahas.sce.com?id=psps3">https://ahas.sce.com?id=psps3</a>

#### VOICE

SCE PSPS All-clear: To continue in English, press 1. [Spanish press 2], all other languages press 3.... Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thank you for your patience as we work to keep our communities safe. If your power is off, please call 1-800-611-1911 or visit sce dot com slash psps.

#### **EMAIL**

**Subject:** SCE Public Safety Power Shutoff (PSPS) All-clear

From: do not reply@scewebservices.com Southern California Edison

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÉNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

MORE LANGUAGES

#### **View in ASL**

Due to improved weather, we did not shut off your power. We understand that planning around outages is inconvenient. Thank you for your patience as we work to keep our communities safe.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

If power is off, please call 1-800-611-1911 or visit sce.com/psps.

For more information about PSPS and wildfire safety, please visit <a href="sce.com/psps.">sce.com/psps.</a>

# 5 | PSPS EXPECTED (1-4 HOURS BEFORE SHUTOFF WARNING)

#### TEXT/SMS

SCE PSPS Expected: It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions. Conditions could last through <u>^End Day of week^ ^morning /afternoon /evening^</u>. We will notify you again if we shut power off. Weather could affect shutoff timing and wind-related outages may also occur. Visit <u>sce.com/psps</u> for the latest information and availability of community resources. For downed power lines, call 911. Thanks for your patience. View in more languages: <u>www.sce.com/PSPSExpected</u> or view in ASL: <a href="https://ahas.sce.com?id=psps4">https://ahas.sce.com?id=psps4</a>

#### VOICE

SCE PSPS Expected. To continue in English, press 1. [Spanish press 2], all other languages press 3.... It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions in your area. Conditions could last through ^End Day of week^ ^morning /afternoon /evening^. We will notify you again if we shut off your power. Weather could affect shutoff timing and wind-related outages may also occur. Visit sce dot com slash psps for the latest information and availability of community resources. If you see a downed power line, call 911. Thank you for your patience.

#### **EMAIL**

Subject: SCE Public Safety Power Shutoff (PSPS) Expected

From: do not reply@scewebservices.com Southern California Edison

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÊNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

MORE LANGUAGES

# **View in ASL**

It's likely we will shut off your power in the next 4 hours due to wind-driven fire conditions. Conditions could last through <u>\*End Day of week\* \*morning /afternoon /evening\*</u>. We are working to reduce the number of customers affected. Weather could also affect shutoff timing and wind-related outages may occur. We will notify you again if we shut off your power. For the latest updates, outage map, and availability of community resources, visit sce.com/psps.

We appreciate your patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

- For information about preparing for a power outage, visit sce.com/safety/family/emergency-tips
- REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

Thank you again for your continued patience as we work to keep your community safe!

#### 6 | PSPS SHUTOFF

(SENT AT AUTHORIZATION TO DE-ENERGIZE)

## SMS/TEXT

SCE PSPS Shutoff: We are shutting off your power due to wind-driven wildfire risk. High winds are forecast through <u>^End Day of week^ ^morning/ afternoon/ evening^.</u> When weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit <u>sce.com/psps</u> for the most up to date info on restoration timing and SCE community resources in your area. Remember to turn off/unplug appliances or equipment that could restart automatically. For downed power lines, call 911. Thanks for your patience. View in more languages: <u>www.sce.com/PSPSShutoff</u> or view in ASL: <a href="https://ahas.sce.com?id=psps5">https://ahas.sce.com?id=psps5</a>

#### VOICE

SCE PSPS shutoff. To continue in English, press 1. [Spanish press 2], all other languages press 3.... We are shutting off your power due to current wind-driven wildfire risk. High winds are forecast through ^End Day of week^ ^morning/ afternoon/ evening^. When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Remember to turn off or unplug appliances or equipment that could restart automatically. Visit sce dot com slash psps for the latest information on restoration timing

and SCE community resources in your neighborhood. If you see a downed power line, call 911. Thank you for your patience.

#### **EMAIL**

**Subject:** SCE Public Safety Power Shutoff (PSPS)

**From:** do not reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÉNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

#### MORE LANGUAGES

#### **View in ASL**

We are shutting off your power due to current high risk of wind-driven wildfire. High winds are forecast to last through <u>\*\*Find Day of week\*\* \*\*morning/afternoon/evening\*\*.</u> When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. We will update you as conditions change. Please remember to turn off or unplug appliances or equipment that may start automatically when power is restored.

Please visit <u>sce.com/psps</u> for the most up to date information, including outage map and restoration information, and availability of SCE community resources.

REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911. We understand this shutoff is inconvenient. We appreciate your continued patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

#### 7 | CONTINUED SHUTOFF - NEXT DAY SHUTOFF UPDATE

(SENT IN THE AM TO OVERNIGHT OUTAGES)

#### SMS/TEXT

SCE Continued PSPS Shutoff: Thank you for your continued patience during this Public Safety Power Shutoff. High winds could continue through <u>\*Pend Day of week\* morning afternoon/evening\*</u>. Before we restore power, we will inspect our lines for damage. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit <u>sce.com/psps</u> for the latest info on restoration and SCE community resources in your area. For downed power lines, call 911. View in more languages:

www.sce.com/PSPSContinuedShutoff or view in ASL: https://ahas.sce.com?id=psps6

#### **VOICE**

SCE Continued PSPS. To continue in English, press 1. [Spanish press 2], all other languages press 3.... Thank you for your continued patience during this Public Safety Power Shutoff. High winds are forecast to continue through <u>^End Day of week^ ^morning /afternoon/evening^</u>. Before we restore power, we will inspect our lines for damage. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit sce dot com slash psps for the latest information on restoration and availability of community resources in your area. For downed power lines, call 911.

#### **EMAIL**

Subject: SCE Continued Public Safety Power Shutoff (PSPS)

**From:** do not reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

 ESPAÑOL
 한국어
 中文
 TIÊNG VIÊT
 TAGALOG

 1-800-441-2233
 1-800-628-3061
 1-800-843-8343
 1-800-327-3031
 1-800-655-4555

#### MORE LANGUAGES

#### **View in ASL**

Thank you for your continued patience during this Public Safety Power Shutoff. Wind-driven fire conditions could last through <u>Pend Day of week Power Shutoff</u>. When the weather improves, we will inspect our lines for damage before we restore power. This is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. Visit <u>sce.com/psps</u> for the latest information on restoration and SCE community resources in your area. We understand that any outage is an inconvenience. Thank you again for your continued patience as we work to keep your community safe!

REMEMBER: If you see a downed power line, call 911 first, and then notify SCE at 1-800-611-1911.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

#### **8 | PREPARE FOR RESTORATION**

### SMS/TEXT

SCE PSPS Update: Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or find damage. For updated restoration estimates in your area and for location of SCE community resources visit <a href="mailto:sce.com/psps">sce.com/psps</a>. Please turn off/unplug appliances or

equipment that could restart automatically and inspect your property for downed power lines. Call 911 if you find a downed line. We will alert you again when we restore power. View in more languages: <a href="www.sce.com/PSPSPrepRestore">www.sce.com/PSPSPrepRestore</a> or view in ASL: <a href="https://ahas.sce.com?id=psps7">https://ahas.sce.com?id=psps7</a>

#### **VOICE**

SCE PSPS Update. To continue in English, press 1. [Spanish press 2], all other languages press 3.... Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could be delayed if we need daylight for safe inspections or if we find damage. Please turn off or unplug any appliances or equipment that could restart automatically and inspect your property for downed power lines. Call 911 if you find a downed line. We will alert you again when we restore power. For updated restoration estimates in your area, and for location of SCE community resources visit sce dot com slash psps

#### **EMAIL**

**Subject:** SCE Public Safety Power Shutoff Update

**From:** do not reply@scewebservices.com

Southern California Edison

For more information on PSPS in your preferred language, click below:

ESPAÑOL한국어中文TIÊNG VIÊTTAGALOG1-800-441-22331-800-628-30611-800-843-83431-800-327-30311-800-655-4555

MORE LANGUAGES

#### **View in ASL**

Winds have died down and we are starting to inspect our lines for damage. Restoration is expected to take up to 8 hours but could take longer if we need daylight for safe inspections or if we find damage. For updated restoration estimates in your area, and for location of SCE community resources visit <a href="sce.com/psps">sce.com/psps</a>. We will alert you again when your power comes back on. Please turn off or unplug any appliances or equipment that could restart automatically and inspect your property for downed power lines. If you see a downed power line, stay away and call 911 first, then report it to SCE at 1-800-611-1911.

We understand that Public Safety Power Shutoff events can be disruptive and thank you for your patience as we work to keep your community safe.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

# SMS/TEXT

SCE PSPS Ended: We have restored power in your area and ended the Public Safety Power Shutoff. If your power is still off, please call 1-800-611-1911 or visit <a href="sce.com/outage">sce.com/outage</a>. We know that safety outages are inconvenient and thank you for your patience. View in more languages: <a href="www.sce.com/PSPSEnded">www.sce.com/PSPSEnded</a> or view in ASL: <a href="https://ahas.sce.com?id=psps10">https://ahas.sce.com?id=psps10</a>

#### **VOICE**

SCE PSPS Ended... To continue in English, press 1. [Spanish press 2], all other languages press 3.... We have restored power in your area and ended the Public Safety Power Shutoff due to improved weather conditions. If your power is still off, please call 1-800-611-1911 or visit sce dot com slash outage. We understand that safety outages are inconvenient and thank you for your patience.

#### **EMAIL**

Subject: SCE Public Safety Power Shutoff Ended: All Power Restored

For more information on PSPS in your preferred language, click below:

<u>ESPAÑOL</u> <u>한국어</u> <u>中文</u> <u>TIÊNG VIÊT</u> <u>TAGALOG</u> 1-800-441-2233 1-800-628-3061 1-800-843-8343 1-800-327-3031 1-800-655-4555

#### MORE LANGUAGES

### **View in ASL**

We have restored power and ended the Public Safety Power Shutoff in your area due to improved weather conditions. If your power is still off, please call 1-800-611-1911 or visit <a href="mailto:sce.com/outage">sce.com/outage</a>. We understand that safety outages are inconvenient and thank you for your patience.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

For more information about PSPS and wildfire safety, please visit <a href="sce.com/psps">sce.com/psps</a>.

#### 10 | RESTORED IN SCOPE - RISK OF PSPS REMAINS

SMS/TEXT

SCE PSPS Update: Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through 'End Day of week' 'morning/afternoon/evening' we might have to shut off power again. We will update you as weather conditions change. If your power is still off, please call 1-800-611-1911 or visit sce.com/psps. Thanks for your patience. View in more languages: www.sce.com/PSPSNotAllClear or view in ASL: https://ahas.sce.com?id=psps11

#### **VOICE**

SCE PSPS Update: To continue in English, press 1. [Spanish press 2], all other languages press 3.... Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through <u>^End Day of week^ ^morning/afternoon/evening^</u> we may have to shut off your power again. We will keep you updated as weather conditions change. We understand that PSPS outages are inconvenient and thank you for your patience. If your power is still off, please call 1-800-611-1911 or visit sce dot com slash psps.

#### **EMAIL**

**Subject:** SCE Public Safety Power Shutoff Update: Power restored; PSPS still in effect **From:** do\_not\_reply@scewebservices.com Southern California Edison

For more information on PSPS in your preferred language, click below:

 ESPAÑOL
 한국어
 中文
 TIÊNG VIÊT
 TAGALOG

 1-800-441-2233
 1-800-628-3061
 1-800-843-8343
 1-800-327-3031
 1-800-655-4555

MORE LANGUAGES

#### **View in ASL**

Winds have improved enough for us to restore power in your area. However, because high winds are still forecast through <u>^End Day of week^ ^morning/afternoon/evening^</u> we may have to shut off your power again. We will keep you updated as weather conditions change. If your power is still off, please call 1-800-611-1911 or visit <u>sce.com/psps</u>.

We understand that safety outages are inconvenient and thank you for your continued patience.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

For more information about PSPS and wildfire safety, please visit sce.com/psps.

Attachment B-Quantitative and Qualitative Factors in PSPS Decision-Making Technical Paper



# QUANTITATIVE AND QUALITATIVE FACTORS FOR PSPS DECISION-MAKING

Revision: November 6, 2023



As the severity and frequency of wildfires in California continues to grow,1 the state's utilities, including Southern California Edison, have implemented Public Safety Power Shutoffs (PSPS) to reduce the risk of electrical infrastructure igniting a significant wildfire. SCE's core objective is to keep customers safely energized, which is why PSPS remains a tool of last resort. We forecast with as much granularity as possible and then work to reduce the number of customers impacted.

Customer impacts are reduced by de-energizing only when necessary, based on real-time weather reporting; isolating only those circuits that present significant risk; moving customers between circuits (sectionalization) and turning off specific segments while keeping other segments of the same circuit energized (segmentation).

We use preset thresholds for dangerous wind speeds, low humidity and dry fuels as the basis of our decision-making. These thresholds are set for each of the circuits in high fire risk areas (HFRAs) and are continuously reviewed to calibrate the risk of significant events against the potential for harm to customers from the loss of power.

In 2021, based on an examination of 26 years of historical fire activity, SCE updated its thresholds for all but one fire climate zone within our service area.

Simultaneously, grid hardening efforts, including replacing bare wire with covered conductor (see box, right), are reducing ignition risk and thereby allowing SCE to raise thresholds on many of the circuits most frequently impacted in the 2019 and 2020 fire seasons.\*

# REDUCING THE NEED FOR PUBLIC SAFETY POWER SHUTOFFS

Concurrent with the work that SCE is doing to reduce the number of customer impacts from PSPS, we are increasing grid resiliency in high fire risk areas through grid hardening measures. The more resilient grid (described in our <u>Wildfire Mitigation Plan</u>) will help reduce the risk of utility equipment sparking significant wildfires and the need for PSPS.

Since 2018, SCE has replaced more than 2,000 circuit miles of bare wire with covered conductor, with additional miles in progress. Covered conductor should prevent ignitions associated with objects or vegetation contacting power lines or conductor-to-conductor contact.

Additional grid hardening activities since 2018 include the installation of 100 sectionalizing devices, more than 7,500 fire-resistant poles and more than 13,000 fast-acting fuses.

<sup>\*</sup> For simplicity, we are referring to the last fire season as the "2020 fire season" although it includes the PSPS event from Jan. 12 to 21, 2021.

# **DECISION-MAKING**

PSPS decisions are based on quantitative analyses while accounting for qualitative factors such as societal and emergency management impacts.

SCE makes PSPS decisions predominantly at the distribution grid level. Decision-making for transmission-level de-energization is not covered in this paper.

#### **THRESHOLDS**

All circuits have an **activation threshold**, defined by the Fire Potential Index (FPI) and the wind speed at which they are considered at risk. Activation thresholds are computed for each circuit for the season. For each PSPS event, every circuit also has a **de-energization threshold**. De-energization thresholds are determined separately for each circuit to prioritize circuits for de-energization based on the specific risks of the event. This is particularly important for large events where many circuits must be evaluated simultaneously. The baseline activation thresholds for each of the high fire risk area circuits are included in the online appendix.

# SCE PSPS TERMINOLOGY

**Consequence score:** Used to quantify risk in decision-making

**Incident commanders**: All decision-making in PSPS events is authorized by an incident commander, who represents the company and undergoes continuous training in PSPS response.

**Incident Management Team**: SCE follows principles of the National Incident Management System and components of the Standardized Emergency Management System during PSPS events. This includes using an Incident Management Team structure to execute PSPS events.

**In-Event Risk Calculation**: A decision-making tool that assesses and compares potential public safety risk (PSPS risk) and the benefit of de-energization (wildfire risk) 24 hours out from the start of the period of concern.

**In scope**: Circuits at risk are deemed to be in scope when they are at risk for reaching event risk thresholds.

**Monitored circuit list**: Circuits in scope are listed and prioritized and each circuit has a specific time range for which it is forecasted to be of concern.

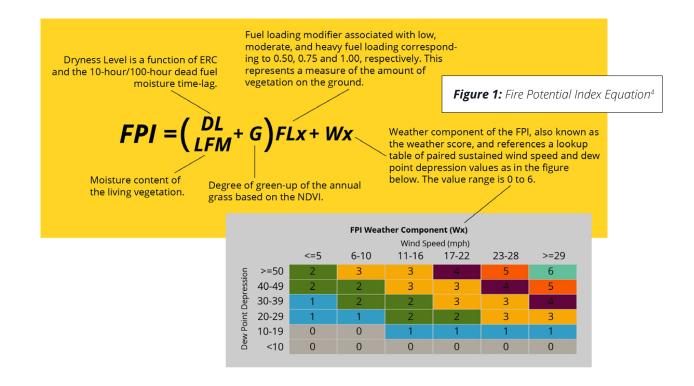
**Period of concern**: The forecasted period, including start and end time, as measured in three-hour time blocks.

**REST Service (Representational state transfer)**: A software architecture we use to share GIS maps with public agencies.

#### FIRE POTENTIAL INDEX

FPI estimates the likelihood of a spark turning into a major wildfire. FPI uses a whole-number scale with a range from 1 to 17 and are categorized as normal (1-11), elevated (12-14) and extreme (15+). Historical FPI and state and federal fire data shows that the most severe fires in terms of number of acres damaged occur at the higher levels of FPI (FPI is calculated using the following inputs (Figure 1):

- **Wind speed**—Sustained wind velocity at 6 meters above ground level.
- **Dew point depression**—The dryness of the air as represented by the difference between air temperature and dew point temperature at 2 meters above ground level.
- **Energy release component (ERC)**—"The available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire ... reflects the contribution of all live and dead fuels to potential fire intensity."<sup>2</sup>
- **10-hour dead fuel moisture**—A measure of the amount of moisture in ¼-inch diameter dead fuels, such as small twigs and sticks.
- **100-hour dead fuel moisture**—A measure of the amount of moisture in 1-to 3-inch diameter dead fuels, i.e., dead, woody material such as small branches.
- **Live fuel moisture**—A measure of the amount of moisture in living vegetation.
- **Normalized Difference Vegetation Index (NDVI)**—"... used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in plant health."<sup>3</sup>



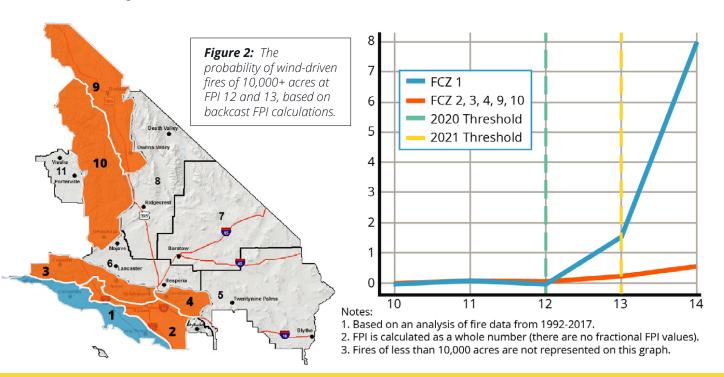
The variables used to generate the FPI score come from the Weather Research and Forecasting (WRF) model<sup>5</sup>, which has been customized for SCE to replicate our specific geography and weather conditions. Individual components of the FPI score are forecast hourly for each 2 km by 2 km grid cell. The model is run twice a day and provides an hourly forecast for five days forward. The forecasts associated with each of the FPI components for each grid cell are then summarized by circuit for three-hour intervals.

The forecasted FPI is further refined and calibrated by integrating model guidance from multiple public sources such as sampling from fire agencies and proprietary data. These refined FPI values are used to determine which circuits are forecast to breach PSPS thresholds during the event, and the values are recorded on SCE's monitored circuit list. In many cases, SCE's meteorologists and operations experts further refine these initial estimated FPI values in real time during the period of concern, based on actual weather observations.

Initially, SCE set the FPI threshold to 12 for all circuits in SCE's high fire risk areas. Starting on Sept. 1, 2021, SCE raised the FPI to 13 for most areas and most events based on a risk analysis of historical fire data.

Exceptions where the FPI threshold continued to be set at 12 include:

- **Fire Climate Zone 1 (FCZ1) (Coastal region)** The threshold for FCZ1 is staying at 12 because probability calculations indicated a significantly higher ignition risk factor at an FPI threshold of 13 for this FCZ than for the other FCZs (2, 3, 4, 9 and 10). (Figure 2)
- **Geographic Area Coordination Center (GACC) preparedness level of 4 or 5** The GACC coordinates multiple federal, state, and regional fire suppression resources. It provides daily fire preparedness levels on a scale of 1-5. A high score signals that there is significant resource drawdown which could negatively impact fire response.
- Circuits located in an active Fire Science Area of Concern (AOC) AOCs are areas within FCZs that are at high risk for fire with significant community impact. This designation is based on factors that are part of FPI, as well as egress, fire history and fire consequence. Further details about AOCs can be found in SCE's Wildfire Mitigation Plan.<sup>7</sup>



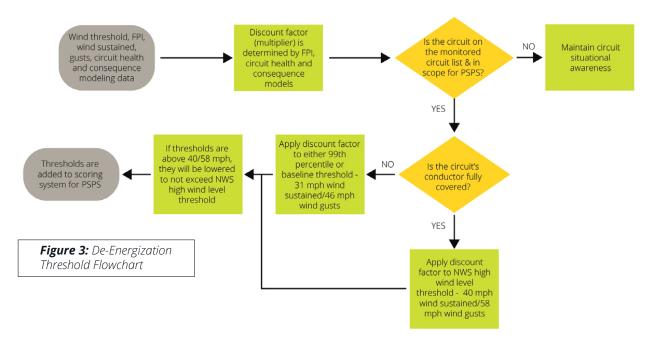
In 2023, SCE identified certain remote and isolated areas (less than 1% of SCE's high fire risk area) where an FPI threshold of 11 may be appropriate to mitigate additional fire risk created by unique factors such as extremely limited egress and constrained fire suppression capability. SCE does not anticipate a significant increase in PSPS events as a result of lowering the FPI threshold in these areas.

#### WIND SPEED

SCE considers the lower of the National Weather Service's (NWS) wind advisory levels (defined as 31 mph sustained wind speed and 46 mph gust wind speed) or the 99th percentile of historical wind speeds to set activation thresholds for each circuit. The <u>wind advisory level</u> is chosen because debris or vegetation is likely to become airborne as described by the Beaufort Wind Scale,<sup>8</sup> while a circuit's 99th percentile wind speeds represent extreme and unusual wind activity for the area.\*There are a handful of circuits that have legacy thresholds below the NWS advisory level because they have a history of local circuit outages at lower wind speeds.

#### **CALCULATING DE-ENERGIZATION THRESHOLDS**

De-energization thresholds account for circuit health, including any outstanding maintenance and issues identified through patrols,<sup>9</sup> and are also informed by a **consequence score** for each specific high fire risk area. The consequence score estimates the impact of an ignition on communities. The higher the score, the greater the risk to a particular location from wildfires. SCE's process for calculating de-energization thresholds is outlined in Figure 3 below.



If actual conditions suggest more risk, or in large-scale events when many circuits are under consideration for shutoffs, the de-energization thresholds may be lowered (discounted), meaning power on a circuit will be turned off at lower wind speeds. This step prioritizes the circuits that represent the highest risk to be evaluated for de-energization before circuits at lower risk.

<sup>\*</sup>top 1% each year, based on 10 years of data

Conversely, de-energization thresholds are raised for segments or circuits that have had covered conductor installed. The de-energization threshold for segments with covered conductor is 40 mph sustained/58 mph gusts which aligns with the National Weather Service high wind warning level for windspeeds at which infrastructure damage may occur. Other factors, such as maintenance issues, could lower the thresholds for specific events.

#### **TOOLS AND TECHNOLOGIES**

To better inform PSPS decision-making, SCE has invested in tools, technologies and practices to improve forecasting. In 2020, two super computers produced twice-daily, high-resolution weather and fuel modeling forecasts for the more than 1,100 distribution circuits in SCE's high fire risk areas. (Two additional super computers and machine learning technology will improve forecasting accuracy in 2021.) The models resolve the complex flows that occur in California's mountainous topography.

# PRE-PLANNING (PRIOR TO WILDFIRE SEASON)

PSPS preparedness activities take place year-round. Pre-planning work includes establishing circuit-specific FPI and wind speed thresholds for activation, reviewing circuits for fuel risk and developing process and tool enhancements, such as updating circuit switching plans for circuits in high fire risk areas.

#### **CIRCUIT SEGMENT REVIEWS**

We use an exception review process to remove circuit segments from consideration for PSPS when the wildfire risk is temporarily or permanently abated. An example would be a portion of a circuit traversing a recent burn scar where there is little or no vegetation remaining to pose an ignition risk. Circuit segment exceptions are identified when SCE begins preparing detailed designs for grid hardening activities or through specific feedback received from the field. This process is further informed by field teams who have current knowledge of changing conditions in specific areas.

A review team composed of SCE experts from PSPS operations, fire science and risk management evaluates each circuit segment's unique characteristics (e.g., construction type, outage history) and location characteristics (e.g., fuel quantity, fuel type, fuel dryness, fuel age and history of fires in the area) to assess the fire risks associated with that segment. Through the circuit exception review process, SCE has removed more than 31,000 customers on 26 circuits from consideration for PSPS in 2020 that had been at risk in 2019. We are continuing to review circuits to further reduce PSPS impacts as part of our PSPS Action Plan for 2021.

#### SWITCHING PLAN DEVELOPMENT

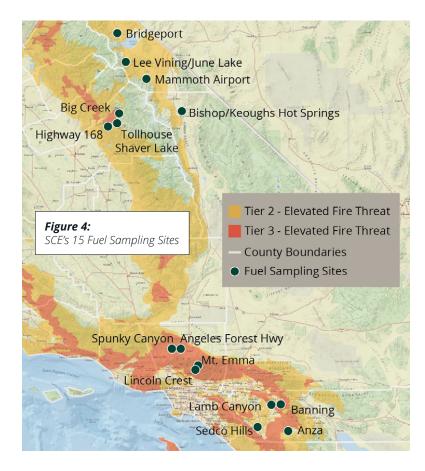
Every circuit in SCE's high fire risk area has ties to other circuits. This provides flexibility to potentially isolate customers from high fire risk areas to minimize customer impacts to the smallest extent possible. SCE develops switching plans to determine whether circuit segments could be transferred using field isolation devices. Individual circuits could have one or more switching plans to account for different weather conditions. These switching plans are used for all circuits under consideration in an event and customers can be switched both before and during events. Switching plans can be used in some situations to remove critical infrastructure from circuits under consideration for shutoff.

The switching plans include mapping the location of isolation devices, associated weather stations, mapping of any underground circuit sections and description of areas of the circuit where circuit exceptions may be applied where the conditions are not conducive to a fire start (e.g., area has covered conductor, paved roadways or no vegetation).

#### **FUEL MOISTURE ANALYSIS**

Live fuel moisture observations are obtained biweekly, year-round (weather permitting) to determine inputs for FPI calculations. Fifteen sites are sampled in four fire-prone geographic areas: the eastern Sierra (along Highway 395), the western Sierra, northern Los Angeles County and the Inland Empire (Figure 4).

Samples of native vegetation from each of the 15 sites are weighed, dried and then weighed again to determine the vegetation's moisture content. This field research targets the areas that have the greatest fire potential. The data from this fuel sampling program is used to develop and train machine-learning models to estimate live fuel moisture, which serves as one of the inputs into the FPI. SCE also uses the data to calibrate FPI by improving the accuracy of the high-resolution weather and fuel modeling output from weather vendor American Digital Systems.



Dead fuel moisture factors into the dryness level in the FPI in both 10-hour and 100-hour measures. It is calculated twice daily using the field sample data and a series of mathematical algorithms that account for precipitation as well as the diurnal variability that occurs with temperature and relative humidity.

# EVENT PLANNING (FOUR TO FIVE DAYS PRIOR TO POTENTIAL SHUTOFF)

At five days before potential weather events, the meteorologists and fire science team can review the first model run of twice-daily weather and fuel forecasts from SCE's super computers to determine if established thresholds are expected to be breached.

No customers are notified at this point, given the uncertainty of longer-range forecasting.

# IMT ACTIVATION (ONE TO THREE DAYS PRIOR TO EXPECTED SHUTOFF)

If forecasts predict that thresholds will be breached within one to three days, the team facilitates a forecast weather call to activate the IMT under the authorization of the incident commander.

The meteorologists produce a monitored circuit list and an associated period of concern table. The table includes a specific forecast start and end time for each circuit, broken down in three-hour time blocks.

Additional quantitative and qualitative factors are monitored in real time once circuits are identified.

As the event gets closer, the initial monitored circuit list and period of concern table are validated by the meteorologists and the fire science team. They improve the raw model using forecasting experience, other weather models and pattern recognition.

The Advanced Circuit Evaluation (ACE) team — a team of SCE engineers and analysts — develops individual de-energization thresholds for each circuit segment for the event based on the pre-assigned activation thresholds. The team assesses circuit conditions and identifies any potential issues that need to be resolved.\*

#### **EVENT MANAGEMENT PLANNING**

The IMT, under the incident commander, makes staffing and resource decisions (See Complexity Factors, Table 1) and develops a unique event management plan. The plan details the de-energization thresholds and cadence of decision-making based on the complexity of the event and situational information. Managing to the plan allows the PSPS team sufficient time to process simultaneous de-energizations when multiple circuits might approach de-energization thresholds in parallel. For small scale events (up to 30 circuits in scope and limited complexity), an event management plan allows us the flexibility to make individual segment decisions as late as possible.

**Table 1:** Complexity Factors

Table 1. Complexity ractors		
Criteria	Impacts	
Number of distribution circuits in scope (primary circuits)	Increased number of customer and public safety partner notifications requires coordination to ensure alignment between functional groups.	
Sub-transmission circuits in scope	De-energizing sub-transmission circuits could potentially create significant customer impacts and local SCE-system reliability issues.	
Transmission circuits in scope	Potential for significant customer impacts and reliability issues.	
Significant number of circuits forecasted to exceed de-energization thresholds	<ol> <li>Requires additional staffing to support higher volume of individual de-energization decisions at the circuit segment level.</li> <li>Stresses resource availability to manage restoration in the field.</li> </ol>	
Large number of counties/ large geographic spread	Increases resource needs. Overextends customer care resources.	
Large customer count	Increases demand on customer care resources.	
Customer demographics	A high number of access and functional needs customers and/or critical infrastructure providers increases level of support provided by SCE.	
Complex/concurrent incidents	Intersecting impacts such as fires, extreme heat or wind-related outages require increased coordination with public safety partners.	
Multi-day events	Multi-day events are a significant burden on impacted customers. Providing temporary relief requires planning and significant resources in the field.	
Number of circuits close to (below) MCL criteria threshold	Risk of additional circuits that could potentially come into scope and rapidly.	

<sup>\*</sup> There is a small subset of circuits with 99th percentile wind speed values that are significantly higher than the NWS wind advisory cap. In instances where wind speeds are forecast to exceed the activation threshold but are not expected to come within proximity of the 99th percentile value, the incident commander may elect not to activate the PSPS protocol. We may dispatch field crews to observe the circuits for possible debris fly-ins but may not activate PSPS due to the low probability of reaching de-energization threshold values.

#### PRE-PATROLS IN THE FIELD

Where possible, every circuit in scope is patrolled before the arrival of the forecasted weather, unless it was already patrolled within the previous seven days. Crews visually inspect the entire length of each circuit to find any imminent hazards that require immediate remediation and provide additional up-to-date intelligence on field conditions. If maintenance concerns are discovered on a circuit in scope, repairs are expedited (if possible) before the impending wind event.

#### **COORDINATION**

SCE meets with local governments, the emergency management community and first responders to inform them about the event, including the location of circuits in scope in their jurisdictions, and to discuss any public safety concerns that should be taken into account.

Situational awareness notifications are sent to local and county jurisdictions, public safety partners and critical infrastructure providers starting at three days out.

#### **CUSTOMER NOTIFICATIONS**

Customer notifications begin 24-48 hours ahead of the forecasted weather event. Because these notifications are based on two-day-ahead forecasting at the circuit level, they lack the precision of later, in-event notifications, which will be based on real-time weather readings at the segment level. They also do not reflect in-event efforts to sectionalize circuits to reduce customer de-energizations.

"The wildfire risks that are reduced through PSPS must be balanced against the potential public safety risks that are introduced by a temporary loss of power. SCE maintains transparent coordination with emergency management officials and other public safety partners leading up to and during PSPS events."

#### IN-EVENT RISK CALCULATION

A new in-event calculator provides an event-based quantitative comparison of risk scores to inform deenergization decision making. The PSPS risk and the benefit of de-energization (wildfire risk) are modeled independently and provided to incident commanders 24 hours in advance of the period of concern. This calculator is also documented in the post-event reports required by Resolution ESRB-8.

# IN-EVENT DECISION-MAKING

Three to six hours before the winds are forecasted to meet de-energization thresholds, the PSPS IMT moves from forecasting to real-time weather monitoring, using SCE's 1,050 field weather stations and other public weather stations. Every 10 minutes, SCE weather station readings are updated for each circuit. Meteorologists compare the forecast conditions to the actual conditions to identify trends that could suggest whether wind speeds are increasing or decreasing.

#### LIVE FIELD OBSERVATIONS

Live field observers are stationed at every circuit in scope, at least two hours before the forecasted start of the event (when feasible). Observers are trained SCE employees who monitor circuits for any possible signs of failure and for environmental conditions that could accelerate the need to turn off power, such as potential for damage from wind gusts, airborne vegetation or other flying debris. Field crews also use handheld weather stations to provide field condition readings to supplement information from fixed weather stations.

#### ACE TEAM DECISION-MAKING PROCESS

The ACE team activates circuit switching plans to reduce the number of customers who lose power.

In-event data is gathered on a master database populated with the de-energization threshold of each circuit segment and auto-populated every 10 minutes with updated wind speeds from circuit-specific weather stations. Field input is provided to the team in real time to inform decisions. As a circuit, or segment of a circuit approaches its de-energization threshold, this team will recommend shutoffs. The incident commander will review each unique recommendation and validate using additional data, such as field reports, if necessary, before approving the decision.

#### **IMMINENT DE-ENERGIZATION NOTIFICATIONS**

In addition to other notification requirements, CPUC guidelines require notifying all customers one to four hours in advance of power shutoffs, if possible. Predicting when this window will occur in advance of changing weather conditions can be challenging. Notifying customers too early may result in over-notification: customers may receive a warning of de-energization but not lose power if wind speeds do not reach forecasted conditions. Conversely, waiting until wind speeds pick up significantly can result in missing this window and not providing customers advance notice before a power shutoff. For the 2021 fire season, we continue to refine the timing and content of our notifications to be more effective.

#### ADDRESSING PUBLIC SAFETY CONCERNS

The wildfire risks that are reduced through PSPS must be balanced against the potential public safety risks that are introduced by a temporary loss of power. SCE maintains transparent coordination with emergency management officials and other public safety partners leading up to and during PSPS events. The PSPS team considers how best to manage de-energizations that may impact public safety and determines if any mitigating actions can be taken to reduce the associated risk. Mitigating actions may include sectionalizing lines to minimize the amount of the line that is de-energized or temporarily providing a backup generation source to a critical facility.

Information is provided to public safety partners through a notification sequence managed by the liaison officers and enhanced by access to REST service maps. Starting in June 2021, an online public safety partner portal will provide these partners with enhanced and simplified access to information. Public safety partners have been consulted on the development of the new public safety partner portal.

Requests to delay de-energization or re-energize circuits are addressed on a case-by-case basis. Potential reasons to delay the de-energization of a circuit could include the need to power water pumps for fire suppression, evacuations in progress and critical facilities that are not equipped with sufficient backup generation.\* These requests may come from fire agencies or from other emergency management agencies during an event. The incident commander has the final authority to determine a response for SCE.

#### PATROL AND RE-ENERGIZATION

The ACE team continues to monitor all circuits that are de-energized and watches for winds to decrease below thresholds, which will trigger patrol for reenergization. For multiday events, with gaps of even a few hours, field crews will attempt to restore customers before the second period of concern begins, even if this will require a repeat de-energization.

In most cases, field crews are standing by for patrol, which is typically accomplished within eight hours (for more than 90% of circuits). Some circuits will require foot or helicopter patrol. If possible, customers on difficult-to-patrol circuits are switched to more accessible circuits for restoration, so that circuits with no customers on them will be the last in line for restoration.

<sup>\*</sup>Many critical infrastructure customers are required by law or industry standard to have back-up generation in place to sustain critical operations during a power outage, regardless of outage type. Other customers not required to have back-up generation are encouraged to consider adding this capability to meet critical needs that require electricity during a power outage.

# **NEXT STEPS FOR PSPS DECISION-MAKING**

Lessons learned, customer feedback and the 2021 PSPS Action Plan are informing SCE's plans for improving decision-making to better serve our customers and our communities for the 2021 fire season. SCE will:

- Use fire spread predictions to estimate how large fires may grow and what their subsequent impact on nearby communities may be. Following evaluation, we will incorporate these estimations to clarify the PSPS geographic coverage to reflect true fire weather conditions more accurately.
- Improve in-house forecasting capabilities to reduce the variance between the customers who are
  notified of potential de-energization and the customers who are actually de-energized due to the onset
  of increased fire danger conditions, as well as the number of customers who lose power without prior
  notification.
- Acquire more computing power to increase resolution of weather and fire potential predictions. This will include doubling the forecast resolution from 2 km to 1 km, which will allow for more precise weather and fuels forecasts.

These improvements should result in adjustments to the activation and de-energization thresholds, resulting in fewer customers losing power because of PSPS. Grid hardening efforts should also reduce the number of customers who experience a PSPS outage assuming the same weather conditions as 2020.

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Online appendix (including May 2021 draft) is available at <a href="SCE.com/PSPSDecisionmakingAppendices">SCE.com/PSPSDecisionmakingAppendices</a>



Attachment C-PSPS Event Data Workbook



# **SCE Post-Event Report Data**

October 24, 2024 to October 29, 2024

# FILE DESCRIPTION

This file includes all tables from the Post Event Report submitted following the De-energization Event.

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Table 15: Community Resource Center Address



# SCE Post-Event Report Data October 24, 2024 to October 29, 2024

### **SECTION 05: Notifications**

Event Order	Notification Type	Requirement Timeline	Notification Sent To	Approximate Time Sent	Notes
	Initial Nation for DCDC Format		Public Safety Partners excluding Critical Facilities and Infrastructure	10/24/24 13:04	
	Initial Notice for PSPS Event (Advanced Initial or Initial)	<b>72-48 hours</b>	Critical Facilities & Infrastructure	10/24/24 13:05	
	(Advanced initial of initial)				
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/25/24 12:51	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/26/24 10:15	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/26/24 23:16	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 9:52	
			Critical Facilities & Infrastructure	10/25/24 13:00	
	Initial Notice for PSPS Event	48-24 hours	Critical Facilities & Infrastructure	10/26/24 10:15	
	(Initial or Update)		Critical Facilities & Infrastructure	10/27/24 9:55	
			All other affected customers	10/25/24 13:00	
			All other affected customers	10/26/24 10:15	
			All other affected customers	10/27/24 9:55	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 18:26	
	Imminent De-Energize (Expected)		Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 18:43	
Pre-De-Energization (prior)			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 0:42	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 4:56	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 7:57	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 10:44	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 13:46	
			Critical Facilities & Infrastructure	10/28/24 4:55	
			Critical Facilities & Infrastructure	10/28/24 7:54	
			Critical Facilities & Infrastructure	10/28/24 7:55	
		4-1 hour	Critical Facilities & Infrastructure	10/28/24 10:50	
			Critical Facilities & Infrastructure	10/28/24 13:53	
			Critical Facilities & Infrastructure	10/28/24 16:45	
			All other affected customers	10/28/24 4:55	
			All other affected customers	10/28/24 7:54	
			All other affected customers	10/28/24 7:55	
			All other affected customers	10/28/24 10:50	
			All other affected customers	10/28/24 13:53	
			All other affected customers	10/28/24 16:45	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 19:35	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 15:39	
			Critical Facilities & Infrastructure	10/27/24 19:35	
			Critical Facilities & Infrastructure	10/28/24 1:01	
In-Event	De-Energized		Critical Facilities & Infrastructure	10/28/24 8:45	
(during)	(Shutoff)	De-energization	All other affected customers	10/27/24 19:35	
, 0,	,		All other affected customers	10/28/24 1:01	



# October 24, 2024 to October 29, 2024

### **SECTION 05: Notifications**

vent Order	Notification Type	Requirement Timeline	Notification Sent To	Approximate Time Sent	Notes
venit Graei	restineation type	Requirement filleline	All other affected customers		110123
			All other affected customers  All other affected customers	10/28/24 8:45	
			All other affected customers	10/28/24 15:27	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 17:27	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/29/24 7:10	
			All other affected customers	10/28/24 17:23	
	Imminent Re-Energize	Imminent Re-energization	All other affected customers	10/29/24 7:00	
	(Prepare to Restore)		Critical Facilities & Infrastructure	10/29/24 7:00	
			Critical Facilities & Infrastructure	10/28/24 17:23	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 17:54	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/29/24 8:47	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/29/24 10:08	
			Critical Facilities & Infrastructure	10/28/24 17:58	
	Re-Energized		Critical Facilities & Infrastructure	10/28/24 19:39	
	(Restored In Scope and/or	Re-energization	Critical Facilities & Infrastructure	10/29/24 10:09	
	Restored No Longer in Scope)		All other affected customers	10/28/24 17:58	
			All other affected customers	10/28/24 19:39	
			All other affected customers	10/29/24 8:46	
			All other affected customers	10/29/24 10:09	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 7:13	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 17:39	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 17:56	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 20:18	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 20:26	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 20:34	
Restoration			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 21:52	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/27/24 23:09	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 8:27	
(after)			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 14:45	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 14:57	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/28/24 17:27	
			Public Safety Partners excluding Critical Facilities and Infrastructure	10/29/24 22:10	
			Critical Facilities & Infrastructure	10/27/24 7:12	
			Critical Facilities & Infrastructure Critical Facilities & Infrastructure	10/27/24 17:37	
			Critical Facilities & Infrastructure  Critical Facilities & Infrastructure	10/27/24 17:55	
	Event Concluded		Critical Facilities & Infrastructure  Critical Facilities & Infrastructure	10/27/24 20:18 10/27/24 20:26	
	(Cancellation)	All Clear	Critical Facilities & Infrastructure  Critical Facilities & Infrastructure	10/27/24 20:26	
	(Cancellation)		Critical Facilities & Infrastructure  Critical Facilities & Infrastructure	10/27/24 20:34	
			Critical Facilities & Infrastructure  Critical Facilities & Infrastructure	10/27/24 21:21	
			Critical Facilities & Infrastructure	10/28/24 8:27	
			Critical Facilities & Infrastructure	10/28/24 14:42	
			Critical Facilities & Infrastructure	10/28/24 14:55	
			All other affected customers	10/27/24 7:12	
			All other affected customers	10/27/24 17:37	
			All other affected customers	10/27/24 17:55	
			All other affected customers	10/27/24 20:18	
			All other affected customers	10/27/24 20:26	
			All other affected customers	10/27/24 20:34	
			All other affected customers	10/27/24 21:21	
			All other affected customers	10/27/24 23:08	
			All other affected customers	10/28/24 8:27	
			All other affected customers	10/28/24 14:42	
			All other affected customers	10/28/24 14:55	
			All other affected customers	10/28/24 17:27	



# SCE Post-Event Report Data October 24, 2024 to October 29, 2024

### **SECTION 05: Notifications**

Breakdown of Notification Failures				
Notifications sent to	Notification Failure Description	Number of Entities or Customer Counts	Explanation	
Public Safety Partners	Entities who did not receive 48-to 72-hour advance notification.	0		
excluding Critical	Entities who did not receive 1–4-hour imminent notification.	0		
Facilities and	Entities who did not receive any notifications before de-energization.	0		
Infrastructure	Entities who were not notified immediately before re-energization.	0		
illirastructure	Entities who did not receive cancellation notification within two hours of the decision to cancel.	0		
	Facilities who did not receive 48–72-hour advance notification.	0		
	Facilities who did not receive 1-4 hour of imminent notifications.	4	1 campaign authorized less than 1 hour, successfully sent 3 campaign authorized more than 4 hours, successfully sent	
Critical Facilities and	Facilities who did not receive any notifications before de-energization.	0		
Infrastructure	Facilities who were not notified at de-energization initiation.	0		
	Facilities who were not notified immediately before re- energization.	0		
	Facilities who were not notified when re-energization is complete.	0		
	Facilities who did not receive cancellation notification within two hours of the decision to cancel.	0		
	Customers who did not receive 24–48-hour advance notifications.	1	no contact information / message send error	
All other affected customers	Customers who did not receive 1–4-hour imminent notifications.	82	1 no contact information / message send error 4 campaign authorized less than 1 hour, successfully sent 77 campaign authorized more than 4 hours, successfully sent	
	Customers who did not receive any notifications before de-energization.	1	no contact information / message send error	
	Customers who were not notified at de-energization initiation.	1	no contact information / message send error	
	Customers who were not notified immediately before re-energization.	1	no contact information / message send error	
	Customers who were not notified when re-energization is complete.	1	no contact information / message send error	
	Customers who did not receive cancellation notification within two hours of the decision to cancel.	8	8 no contact information / message send error	



October 24, 2024 to October 29, 2024

### **SECTION 06: Local and State Public Safety Partner Engagement**

rubiic Salety Faithers Contacted				
Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted	
Bishop	City Administrator (City Manager)	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Councilman: At-Large Off Reservation	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Councilman: Secretary/Treasurer	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Housing Director	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Tribal Administrator	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Tribal Chairman	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Tribal Councilman: At-Large On Reservation	Non HFRA, T2	10/25/24 12:46	
Bridgeport Indian Colony	Tribal Executive Officer	Non HFRA, T2	10/24/24 13:04	
Bridgeport Indian Colony	Vice Chairman	Non HFRA, T2	10/24/24 13:04	
Hesperia	Assistant to the City Manager	Non HFRA, T2	10/25/24 12:46	
Hesperia	Deputy City Manager	Non HFRA, T2	10/25/24 12:46	
Hesperia	Public Works Director	Non HFRA, T2	10/25/24 12:46	
Hesperia		Non HFRA, T2	10/25/24 12:46	
Inyo County	Assistant County Administrative Officer (ACAO)	Non HFRA, T2	10/24/24 13:04	
Inyo County	County Administrative Officer (CAO)	Non HFRA, T2	10/24/24 13:04	
Inyo County	Emergency Services Manager	Non HFRA, T2	10/24/24 13:04	
Inyo County	Inyo County Sheriff Watch Desk	Non HFRA, T2	10/24/24 13:04	
Mono County	Chairperson (Supervisor - District 2)	Non HFRA, T2	10/24/24 13:04	
Mono County	County Administrative Officer (CAO)	Non HFRA, T2	10/24/24 13:04	
Mono County	Director Health and Human Services	Non HFRA, T2	10/24/24 13:04	
Mono County	Director of Emergency Services	Non HFRA, T2	10/24/24 13:04	
Mono County	Emergency Preparedness Manager	Non HFRA, T2	10/24/24 13:04	
Mono County	GIS Analyst	Non HFRA, T2	10/24/24 13:04	
Mono County	Mammoth Lakes Fire Department Chief	Non HFRA, T2	10/24/24 13:04	
Mono County	OES/Patrol Sergeant	Non HFRA, T2	10/24/24 13:04	
Mono County	Parks & Facilities Superintendent   Public Works	Non HFRA, T2	10/24/24 13:04	
Mono County	PSPS Notification	Non HFRA, T2	10/24/24 13:04	
Mono County	Public Information Manager - Consultant	Non HFRA, T2	10/24/24 13:04	



October 24, 2024 to October 29, 2024

### **SECTION 06: Local and State Public Safety Partner Engagement**

Public Safety Partifers Contacted				
Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted	
Mono County	Public Works Director	Non HFRA, T2	10/24/24 13:04	
Mono County	Sheriff - Coroner	Non HFRA, T2	10/24/24 13:04	
Mono County	Staff Service Analyst	Non HFRA, T2	10/24/24 13:04	
Mono County	Staff Services Analyist, Department of Social Service	Non HFRA, T2	10/24/24 13:04	
Mono County	Supervisor - District 5	Non HFRA, T2	10/24/24 13:04	
Mono County	Supervisor (District 1)	Non HFRA, T2	10/24/24 13:04	
Mono County	Supervisor (District 3)	Non HFRA, T2	10/24/24 13:04	
Mono County	Supervisor (District 4)	Non HFRA, T2	10/24/24 13:04	
Mono County	Wildfire Preparedness Coordinator	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Assistant Director for Public Works	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Assistant Director Public Health	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Assistant Executive Officer	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Battalion Chief - SB County Fire - Division 4	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Captain/SBSD Emergency Services	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	CEO Administrative Aide	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Chair County Supervisor	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Chief Executive Officer	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Chief Information Officer	Non HFRA, T2	10/27/24 9:52	
San Bernardino County	Chief of Staff	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Chief of Staff for Supervisor Armendarez	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Communication Officer	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Communications Director	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Community Svs Liaison, Supervisor Hagman	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Corporal - Public Affairs Division Sheriff's Dept	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Deputy Chief of Administration	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Deputy Chief of Operations	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Deputy Chief of Staff Supervisor Rowe	Non HFRA, T2	10/26/24 10:15	
San Bernardino County	Deputy Director Operations	Non HFRA, T2	10/24/24 13:04	
San Bernardino County	Deputy Director-DPW	Non HFRA, T2	10/24/24 13:04	



October 24, 2024 to October 29, 2024

### **SECTION 06: Local and State Public Safety Partner Engagement**

Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted
Julisulction / Organization	Title	nrib liei	Date/ Time Contacted
San Bernardino County	Deputy Executive Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Deputy Fire Chief Operations	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Deputy Fire Marshal	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Director	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Director of Real Estate Services Department	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Director of the Office of Emergency Services	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Director Public Health	Non HFRA, T2	10/26/24 10:15
San Bernardino County	Director, ROV	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Dispatch for Fac. Management	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Dispatch Supervisor	Non HFRA, T2	10/24/24 13:04
San Bernardino County	District Director, 1st District	Non HFRA, T2	10/24/24 13:04
San Bernardino County	District Director, 5th District	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Division Chief	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Division Chief - Flood Control Engineering	Non HFRA, T2	10/27/24 9:52
San Bernardino County	Division Chief- EHS	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Division Manager, Water and Sanitation	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Emergency Services Coordinator / SBSD Emer Opera	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Emergency Services Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	EMS Agency Duty Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Engineering Construction	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Engineering Manager-DPW	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Executive Admin Assist for Luther Snoke Deputy CEC	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Executive Admin Assistant	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Executive Aide to Supervisor Rowe	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Executive Assistant	Non HFRA, T2	10/28/24 10:44
San Bernardino County	Executive Secretary	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Executive Secretary, Supervisor Armendarez	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Field Representative	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Fire Chief/Fire Warden	Non HFRA, T2	10/24/24 13:04



October 24, 2024 to October 29, 2024

### **SECTION 06: Local and State Public Safety Partner Engagement**

Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted
San Bernardino County	Fire Marshal	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Fire Prevention Specialist	Non HFRA, T2	10/27/24 9:52
San Bernardino County	Flood Control Engineering Mgr/Div Chief	Non HFRA, T2	10/26/24 10:15
San Bernardino County	Manager - Real Estate Services	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Media Specialist-OES	Non HFRA, T2	10/24/24 13:04
San Bernardino County	OES Duty Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Operations	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Parks Operations Chief	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Planning Manager	Non HFRA, T2	10/26/24 10:15
San Bernardino County	Policy Advisor, 4th District	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Project Manager	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Public Health Duty Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Public Health Program Mananger	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Public Information Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Public Information Officer, SBFIRE	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Public Works Director	Non HFRA, T2	10/24/24 13:04
San Bernardino County	R/W Section Chief	Non HFRA, T2	10/26/24 10:15
San Bernardino County	Senior Advisor	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Senior Planner	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Special Projects Manager	Non HFRA, T2	10/26/24 23:16
San Bernardino County	Strategic Projects Director - COVID	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Supervising Emergency Services Officer	Non HFRA, T2	10/24/24 13:04
San Bernardino County	Supervisor	Non HFRA, T2	10/24/24 13:04
Tuolumne County	Board Clerk	Non HFRA, T2	10/24/24 13:04
Tuolumne County	Chairperson	Non HFRA, T2	10/24/24 13:04
Tuolumne County	County Administrator	Non HFRA, T2	10/24/24 13:04
Tuolumne County	OES Coordinator	Non HFRA, T2	10/24/24 13:04
Tuolumne County	Public Works Director	Non HFRA, T2	10/24/24 13:04
Tuolumne County	Supervisor	Non HFRA, T2	10/24/24 13:04



October 24, 2024 to October 29, 2024

### **SECTION 06: Local and State Public Safety Partner Engagement**

Tublic Surety Furthers Contacted				
Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted	
Tuolumne County	Supervisor (District 1)	Non HFRA, T2	10/24/24 13:04	
Tuolumne County	Supervisor (District 2)	Non HFRA, T2	10/24/24 13:04	
Upland	Emergency Manager	Non HFRA, T2	10/24/24 13:04	
Yucaipa	Battalion Chief	Non HFRA, T2	10/25/24 12:46	
Yucaipa	Emergency Services Manager	Non HFRA, T2	10/25/24 12:46	
Yucaipa		Non HFRA, T2	10/25/24 12:46	
BISHOP TUNGSTEN DEV, LLC		Non HFRA, T2	10/24/24 13:05	
CEQUEL COMMUNICATIONS, LLC		Non HFRA, T2	10/24/24 13:05	
FRONTIER COMMUNICATIONS PARENT INC		Non HFRA, T2	10/24/24 13:05	
LOWER ROCK CREEK MUTUAL WATER		Non HFRA, T2	10/24/24 13:05	
PARADISE FIRE DIST		Non HFRA, T2	10/24/24 13:05	
PINE CREEK VILLAGE LP		Non HFRA, T2	10/24/24 13:05	
ROCKING K ESTATES WATER CO		Non HFRA, T2	10/24/24 13:05	
SOUTHERN CALIFORNIA EDISON CO		Non HFRA, T2	10/24/24 13:05	
STARLITE CSD		Non HFRA, T2	10/24/24 13:05	
TERRA-GEN DIXIE VALLEY, LLC		Non HFRA, T2	10/24/24 13:05	

October 24, 2024 to October 29, 2024

Entities Invited to SCE Emergency Operations Center		
Entity	Туре	
Cal Fire	Public Safety Partners	
California Governor's Office of Emergemcy Services (CalOES)	Public Safety Partners	
California Health and Human Services (CHHS)	Public Safety Partners	
California Public Utilities Commission (CPUC)	Public Safety Partners	
CalOES Warning Center	Public Safety Partners	
Energy Safety	Public Safety Partners	
Inyo County OEM	Public Safety Partners	
Kern County OEM	Public Safety Partners	
Mono County OEM	Public Safety Partners	
San Bernardino County OEM	Public Safety Partners	
Santa Barbara County OEM	Public Safety Partners	
Tulare County OEM	Public Safety Partners	
Tuolumne County OEM	Public Safety Partners	
HILTON CREEK C S D	Critical Facility, Critcal Infrastructure	
UNION PACIFIC R.R, LLC	Critical Facility, Critcal Infrastructure	
SOUTHERN CALIFORNIA GAS CO	Critical Facility, Critcal Infrastructure	
LUNDY MUTUAL WATER	Critical Facility, Critcal Infrastructure	
MONO, COUNTY OF	Critical Facility, Critcal Infrastructure	
COUNTY OF KERN	Critical Facility, Critcal Infrastructure	
COX COMMUNICATIONS CALIF, LLC	Critical Facility, Critcal Infrastructure	
CINGULAR WIRELESS LLC	Critical Facility, Critcal Infrastructure	
GOLETA WATER DISTRICT	Critical Facility, Critcal Infrastructure	
FRONTIER COMMUNICATIONS PARENT INC	Critical Facility, Critcal Infrastructure	
RIVER KERN MUT WATER	Critical Facility, Critcal Infrastructure	
EL CAPITAN MUTUAL WATER CMPANY	Critical Facility, Critcal Infrastructure	
ASPENDELL MUTUAL	Critical Facility, Critcal Infrastructure	
KERN COUNTY AIRPORT	Critical Facility, Critcal Infrastructure	
Sable Offshore Corp.	Critical Facility, Critcal Infrastructure	
CROWLEY LAKE WATER INC	Critical Facility, Critcal Infrastructure	
ALPINE WATER CO.	Critical Facility, Critcal Infrastructure	

October 24, 2024 to October 29, 2024

Entities Invited to SCE Emergency Operations Center			
Entity	Туре		
MONO CITY FIRE DEPT	Critical Facility, Critcal Infrastructure		
LEE VINING FIRE DIST	Critical Facility, Critcal Infrastructure		
SAN MARCOS MUTUAL WATER CO	Critical Facility, Critcal Infrastructure		
CMP ANGLS TRCT LND	Critical Facility, Critcal Infrastructure		
MOUNTAIN VIEW ESTATES WATER CO	Critical Facility, Critcal Infrastructure		
SPRINT NEXTEL CORPORATION	Critical Facility, Critcal Infrastructure		
U C SANTA BARBARA	Critical Facility, Critcal Infrastructure		
CEQUEL COMMUNICATIONS, LLC	Critical Facility, Critcal Infrastructure		
MEDIACOM, LLC	Critical Facility, Critcal Infrastructure		
CA DEPT OF CORRECTIONS & REHAB	Critical Facility, Critcal Infrastructure		
BRIDGEPORT PUD	Critical Facility, Critcal Infrastructure		
MICHAEL LANCON	Critical Facility, Critcal Infrastructure		
KENN GATES	Critical Facility, Critcal Infrastructure		
RICHARD LACH	Critical Facility, Critcal Infrastructure		
TORBEN VON STADEN	Critical Facility, Critcal Infrastructure		
EILEEN CODLING	Critical Facility, Critcal Infrastructure		
CHERI MORA	Critical Facility, Critcal Infrastructure		
Phyllis Hunewill	Critical Facility, Critcal Infrastructure		
MARTHA GREEN-WHITNEY	Critical Facility, Critcal Infrastructure		
ANTHONY LONGOBARDO	Critical Facility, Critcal Infrastructure		
EUGENE FOUNTAIN	Critical Facility, Critcal Infrastructure		
David Lootens	Critical Facility, Critcal Infrastructure		
CHARLES DBA SAGER	Critical Facility, Critcal Infrastructure		
BRUCE ROBERTS	Critical Facility, Critcal Infrastructure		
CALTRANS	Critical Facility, Critcal Infrastructure		
VERIZON WIRELESS	Critical Facility, Critcal Infrastructure		
T-MOBILE USA	Critical Facility, Critcal Infrastructure		
AT&T CORPORATION	Critical Facility, Critcal Infrastructure		
CALIFORNIA STATE HIGHWY PATROL	Critical Facility, Critcal Infrastructure		
KERNVILLE UNION SCHOOL DIST	Critical Facility, Critcal Infrastructure		
FALLSVALE SERVICE CO	Critical Facility, Critcal Infrastructure		
CALIFORNIA WATER SERVICES, CO	Critical Facility, Critcal Infrastructure		

October 24, 2024 to October 29, 2024

Entities Invited to SCE Emergency Operations Center			
Entity	Туре		
T MOBILE WEST, LLC	Critical Facility, Critcal Infrastructure		
PINE CREEK VILLAGE LP	Critical Facility, Critcal Infrastructure		
STARLITE CSD	Critical Facility, Critcal Infrastructure		
SANTA BARBARA, COUNTY OF	Critical Facility, Critcal Infrastructure		
GLEN MARTIN MUTUAL WATER CO	Critical Facility, Critcal Infrastructure		
FEDERAL AVIATION ADMINISTRATIO	Critical Facility, Critcal Infrastructure		
LONG VALLEY FIRE	Critical Facility, Critcal Infrastructure		
MOUNTAIN MEADOWS LTD	Critical Facility, Critcal Infrastructure		
LOS ANGELES, CITY OF	Critical Facility, Critcal Infrastructure		
KERN COMMUNITY COLLEGE DISTRCT	Critical Facility, Critcal Infrastructure		
EASTERN SIERRA UNIFIED SCH DIS	Critical Facility, Critcal Infrastructure		
BRIDGEPORT INDIAN COLONY	Critical Facility, Critcal Infrastructure		
CA BROADBAND COOPERATIVE, INC.	Critical Facility, Critcal Infrastructure		
SAN BERNARDINO, COUNTY OF	Critical Facility, Critcal Infrastructure		
ROMALDO WATER CO	Critical Facility, Critcal Infrastructure		
EL GAUCHO WATER IMP	Critical Facility, Critcal Infrastructure		
GOLETA UNION SCHOOL DISTRICT	Critical Facility, Critcal Infrastructure		
DWR - STATE WATER PROJECTS	Critical Facility, Critcal Infrastructure		
SPRINT COMMUNICATIONS CO LP	Critical Facility, Critcal Infrastructure		
NATIONAL PARK SERVICE	Critical Facility, Critcal Infrastructure		
ASPENDEL MUTUAL WTR	Critical Facility, Critcal Infrastructure		
MOREHART LAND CO	Critical Facility, Critcal Infrastructure		
BEAR VALLEY UNIFIED SCH DIST	Critical Facility, Critcal Infrastructure		
BARTON FLATS CAMP ASSOCIATION	Critical Facility, Critcal Infrastructure		
PAINTED CAVE MUTUAL WATER CO	Critical Facility, Critcal Infrastructure		
INTERCONNECT TOWERS, LLC	Critical Facility, Critcal Infrastructure		
PARADISE FIRE DIST	Critical Facility, Critcal Infrastructure		
RINCON BROADCASTING LLC	Critical Facility, Critcal Infrastructure		
CROWN CASTLE	Critical Facility, Critcal Infrastructure		
CHARTER COMMUNICATIONS INC	Critical Facility, Critcal Infrastructure		
SCHAT COMMUNICATIONS	Critical Facility, Critcal Infrastructure		
UNITED STATES FOREST SERVICE	Critical Facility, Critcal Infrastructure		

October 24, 2024 to October 29, 2024

Entities Invited to SCE Emergency Operations Center		
Entity	Туре	
BRIDGEPORT FIRE DIST	Critical Facility, Critcal Infrastructure	
TERRA-GEN DIXIE VALLEY, LLC	Critical Facility, Critcal Infrastructure	
GTE MOBILENET INCORPORATED	Critical Facility, Critcal Infrastructure	
USMC BRIDGEPORT	Critical Facility, Critcal Infrastructure	
RACE COMMUNICATION	Critical Facility, Critcal Infrastructure	
REDWOOD WOFFORD HEIGHTS LLC	Critical Facility, Critcal Infrastructure	
SOUTHERN PACIFIC CO	Critical Facility, Critcal Infrastructure	
VERIZON	Critical Facility, Critcal Infrastructure	
LOWER ROCK CREEK MUTUAL WATER	Critical Facility, Critcal Infrastructure	
SUN RANCH 201 LLC	Critical Facility, Critcal Infrastructure	
FREMONT & SANTA YNEZ IMP ASSOC	Critical Facility, Critcal Infrastructure	
FEDERAL BUREAU OF INVSTIGATION	Critical Facility, Critcal Infrastructure	
FREEPORT MCMORAN OIL & GAS	Critical Facility, Critcal Infrastructure	
BISHOP TUNGSTEN DEV, LLC	Critical Facility, Critcal Infrastructure	
LEEVINING PUB UTILY	Critical Facility, Critcal Infrastructure	
ROCKING K ESTATES WATER CO	Critical Facility, Critcal Infrastructure	
AT&T INCORPORATED	Critical Facility, Critcal Infrastructure	
AMERICAN TOWERS	Critical Facility, Critcal Infrastructure	
T-MOBILE US, INC	Critical Facility, Critcal Infrastructure	
COX ENTERPRISES INC	Critical Facility, Critcal Infrastructure	
FRONTIER COMMUNICATIONS CORP	Critical Facility, Critcal Infrastructure	
VERIZON COMMUNICATIONS INC	Critical Facility, Critcal Infrastructure	
So Cal Gas	Critical Facility, Critcal Infrastructure	
Bear Valley Electric	Critical Facility, Critcal Infrastructure	
Santa Barbara	Critical Facility, Critcal Infrastructure	
BURLANDO HTS WTR CO	Critical Facility, Critcal Infrastructure	
LIBERTY AMBULANCE	Critical Facility, Critcal Infrastructure	
SANTA BARBARA CITY COLLEGE	Critical Facility, Critcal Infrastructure	
UNION PACIFIC RAILROAD CO	Critical Facility, Critcal Infrastructure	



October 24, 2024 to October 29, 2024

### **SECTION 07: Complaints and Claims**

Count and Nature of Complaints Received	
Nature of Complaints	Number of Complaints
<b>PSPS Frequency/Duration</b> Including, but not limited to complaints regarding the frequency and/or duration of PSPS events, Including delays in restoring power, scope of PSPS and dynamic of weather conditions.	7
Safety/Health Concern Including, but not limited to complaints regarding difficulties experienced by AFN/MBL populations, traffic	2
accidents due to non-operating traffic lights, inability to get medical help, well water or access to clean water, inability to keep property cool/warm during outage raising health concern	
<b>Communications/Notifications</b> Including, but not limited to complaints regarding lack of notice, excessive notices, confusing notice, false alarm notice, problems with getting up-to-date information, inaccurate information provided, not being able to get information in the prevalent languages and/or information accessibility, complaints about website, Public Safety Partner Portal, REST/DAM sites (as applicable)	1
Outreach/Assistance Including, but not limited to complaints regarding community resource centers, community crew vehicles, backup power, hotel vouchers, other assistance provided by utility to mitigate impact of PSPS	0
<b>General PSPS Dissatisfaction/Other</b> Including, but not limited to complaints about being without power during PSPS event and related hardships such as food loss, income loss, inability to work/attend school, plus any PSPS-related complaints that do not fall into any other category.	0
Total	10



October 24, 2024 to October 29, 2024

#### **SECTION 09: Community Resource Centers**

#### **Community Resource Center Address** Number of Hours of Operations<sup>1</sup> **Address Location Type** Describe the assistance available (Date / Time) **Visitors** 10/27/2024 Millpond Recreation Area parking lot Small portable device charging (such CCV 128 8 AM to 10 PM as a cell phone, laptop, and small Sawmill Rd. Bishop, CA 93514 medical devices), chairs, seasonal cooling and heating, PSPS 10/28/2024 8AM to 7 PM information, snacks, water, ice, blankets, firewood, ADA compliant 10/29/2024 restrooms and customer Resiliency 8 AM to 10:50 AM Riverside Park parking lot Small portable device charging (such CCV 10/27/2024 17 as a cell phone, laptop, and small 10 Kern River Dr. 10 AM to 7 PM medical devices), chairs, seasonal Kernville, CA 93238 cooling and heating, PSPS information, snacks, water, ice, blankets, firewood, ADA compliant restrooms and customer Resiliency Small portable device charging (such Bridgeport Memorial Hall Community 10/27/2024 CCV 31 as a cell phone, laptop, and small Center parking lot 8 AM to 10 PM 73 North School St. medical devices), chairs, seasonal Bridgeport, CA 93517 cooling and heating, PSPS 10/28/2024 information, snacks, water, ice, 8AM to11 AM blankets, firewood, ADA compliant restrooms and customer Resiliency



October 24, 2024 to October 29, 2024

#### **SECTION 09: Community Resource Centers**

#### **Community Resource Center Address** Number of Hours of Operations<sup>1</sup> **Address Location Type** Describe the assistance available (Date / Time) **Visitors** Small portable device charging (such Crowley Lake Community Center parking CCV 10/27/2024 28 as a cell phone, laptop, and small 8 AM to 10 PM 482 S. Landing Rd., #474 medical devices), chairs, seasonal Mammoth Lakes, CA 93546 cooling and heating, PSPS 10/28/2024 information, snacks, water, ice, 9AM to 4 PM blankets, firewood, ADA compliant restrooms and customer Resiliency Forestry Station parking lot Small portable device charging (such 10/27/2024 CCV 11 34701 Millcreek Rd. as a cell phone, laptop, and small 6 PM to 10 PM Mentone, CA 92359 medical devices), chairs, seasonal cooling and heating, PSPS 10/28/2024 information, snacks, water, ice or ice 8AM to 7:30 PM vouchers, ADA compliant restrooms and customer Resiliency Kits. CRC - Indoor Small portable device charging (such 10/27/2024 Residence Inn Goleta 0 as a cell phone, laptop, and small 6350 Hollister Ave. 1 PM to 9:30 PM medical devices), chairs, seasonal Goleta, CA 93117 cooling and heating, PSPS information, snacks, water, ice or ice vouchers, ADA compliant restrooms and customer Resiliency Kits.

#### **Officer Verification**

I am an officer of the applicant corporation herein and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct. Executed this 12<sup>th</sup> day of November 2024 in Rancho Palos Verdes, California

— signed by: Michael R. Marelli

Mike Marelli

Vice President,

**Operational Services**