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

<u>SOUTHERN CALIFORNIA EDISON COMPANY'S (U 338-E) PUBLIC SAFETY</u> <u>POWER SHUTOFF POST-EVENT REPORT FOR JUNE 15, 2022</u> <u>HIGH THREAT EVENT</u>

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Dated: July 1, 2022

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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 (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,

ANNA VALDBERG ELENA KILBERG

/s/ Elena Kilberg

By: Elena Kilberg

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Attachment A

SCE's PSPS Post-Event Report



Tara Kaushik Managing Director, Regulatory Relations Tara.Kaushik@sce.com

July 01, 2022

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

SUBJECT: SCE PSPS Post Event Report – June 15, 2022 to June 17,2022

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 compliance report for the high threat event initiated on June 15th and concluded on June 17th.

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

<u>/s/Tara Kaushik</u> Tara Kaushik Managing Director, Regulatory Relations

cc: <a>ESRB ComplianceFilings@cpuc.ca.gov

Southern California Edison Public Safety Power Shutoff (PSPS) Post-Event Report June 15, 2022

Filed with: The California Public Utilities Commission Submitted to: Director of the Safety and Enforcement Division Dated: July 1, 2022

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Introduction

SCE submits this post-event report to address the high threat event that began on June 15, 2022 at 12:00pm and ended on June 17, 2022 at 6:00pm impacting portions of Inyo County; and to demonstrate its compliance with the directives of Resolution ESRB-8 as well as the requirements imposed by California Public Utilities Commission (CPUC or Commission) 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). SCE did not de-energize any customers during this event. This report explains SCE's decision to call, sustain, and conclude the event, and provides detailed information to facilitate the Commission's evaluation of SCE's compliance with applicable PSPS guidelines.

SCE recognizes that proactive de-energizations pose significant challenges and hardships for our customers and the Public Safety Partners that provide vital services to the affected communities. SCE's decision to activate its PSPS protocol is based on careful 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 remains committed to continuously improving its PSPS processes and welcomes input from its customers, Public Safety Partners, community representatives, and local governments on ways we can work together to minimize the impact of PSPS events on all stakeholders.

Section 1. Executive Summary

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 had been restored.

This high threat event began when SCE remotely activated its Emergency Operations Center on June 15, 2022 at 12:00pm. SCE's meteorologists identified the potential for fire weather conditions in localized portions of Inyo County on the Birchim circuit (Segment 4) during a Period of Concern from 9:00am to 9:00pm on June 17th. Given this forecast, SCE's meteorology and fire science experts maintained close communication with the Geographic Area Coordination Center (GACC)¹ to evaluate the potential fire weather impacts to the Birchim circuit. During this communication, the GACC indicated agreement with SCE's forecast of elevated fire weather.

In response to this forecasted fire weather, SCE remotely activated its PSPS dedicated Incident Management Team (IMT) on June 15th at 12:00pm to manage this event. Ultimately, fire weather conditions did not materialize, and SCE meteorologists shortened the Period of Concern based on actual weather conditions from 9:00am to 9:00pm to 9:00am to 6:00pm on June 17th. As such, no circuits or customers were de-energized during this high threat event.

¹ The GACC is the physical location of an interagency, regional operation center for the effective coordination, mobilization, and demobilization of federal state and local wildland fire agencies through logistical coordination of resources throughout the geographic area, as well as with other geographic areas.

2. A table including the maximum number of customers notified² and actually deenergized; 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.

	Total Customers	;		De-er	nergized		1			
PSPS Notif	ied De-energized	Cancelled	MBL Customers	Number of Counties	Number of Tribes		Transmission De-energized	Distribution Circuits in Scope	Distribution De-energized	Damage Count
3	0	3	N/A	N/A	N/A	N/A	0	1	0	0

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

N/A. SCE did not de-energize any circuits during this high threat event.

² SCE makes every effort to notify customers, public safety partners, and other impacted entities within two hours of a decision to cancel an anticipated de-energization event or to remove from scope. When the period of concern is over for a circuit or a circuit segment originally in scope and after the circuit is removed from the Monitored Circuit List, SCE sends an "All-Clear – Event Avoided" cancellation notification to impacted entities and customers who had been notified of a potential de-energization, but not de-energized. Because weather conditions can change unexpectedly, SCE is not always able to make a final decision that notified customers will not experience a de-energization until an "All Clear" declaration had been issued for all circuits in scope for the PSPS event.

Section 2. Decision-Making Process

1. A table showing factors considered in the decision to shut off power for each circuit de-energized, including sustained and gust wind speeds, temperature, humidity, and moisture in the vicinity of the de-energized circuits.³

N/A. SCE did not de-energize any circuits during this high threat event because forecasted fire weather conditions did not materialize during the Period of Concern.

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 thresholds for dangerous wind speeds, low humidity, and dry fuels as the basis for PSPS decision-making called the Fire Potential Index,⁴ which is described in SCE's technical paper.⁵ All circuits have an activation threshold, defined by the FPI and the wind speed at which they are considered at risk. Activation thresholds are computed for each circuit for the season. 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. In 2021, based on an examination of 26 years of historical fire activity, SCE updated its (FPI) thresholds for all but one fire climate zone within our service area.

FPI is calculated using the following inputs:

- 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."⁶
- 10-hour dead fuel moisture—A measure of the amount of moisture in ¼-inch

³ SCE includes temperature, humidity, and moisture in its Fire Potential Index rating calculations as detailed in this section.

⁴ The SCE Fire Potential Index (FPI) is a tool that utilizes weather data to include temperature and humidity, fuel conditions, and vegetation moisture content to rate the daily fire potential across our service region. 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, with the following categorizations: normal (1-11), elevated (12-14) and extreme (15+). Historical FPI and state and federal fire data show that the most severe fires in terms of number of acres damaged occur at the higher levels of FPI.

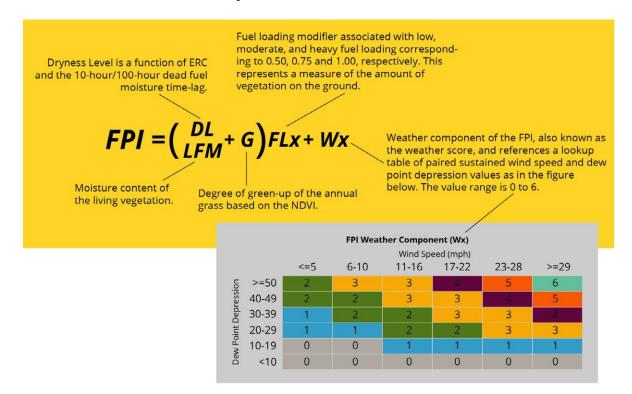
⁵ SCE's detailed technical paper, Quantitative and Qualitative Factors for PSPS Decision-Making, can be found at <u>https://energized.edison.com/psps-decision-making</u> and in Attachment C of this report.

⁶U.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.

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."⁷

Visual 1. Fire Potential Index Equation⁸



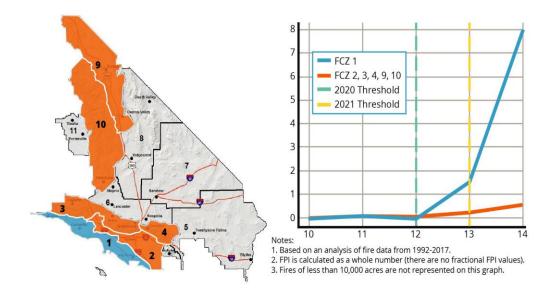
SCE has set the FPI at 13 for most areas and most events based on a risk analysis of historical fire data.⁹ The following details exceptions in which the FPI threshold will continue to be set at 12:

⁸ Fire Potential Index adapted from San Diego Gas & Electric (https://www.sdge.com/sites/default/files/ regulatory/SDGE_Fire_Prevention_Plan_2018.pdf, pages 25-27) and modified to serve SCE's needs, including the insertion of the Live Fuel Moisture variable.

⁹ 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.

⁷ U.S. Department of the Interior. n.d. Landsat Normalized Difference Vegetation Index. Accessed April 14, 2021. 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.

- 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).
- Geographic Area Coordination Center (GACC) preparedness level of 4 or 5 The GACC coordinates multiple federal and state agencies to track and manage regional fire resources. It provides a daily fire preparedness level on a score of 1-5. A high score signals that there could be resource issues in responding to a fire.
- 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 common to FPI as well as egress, fire history, and fire consequence. Further details about AOCs can be found in SCE's Wildfire Mitigation Plan.¹⁰



Visual 2. Probability of Wind-Driven Fires at 10,000 Acres at FPI 12 and 13¹¹

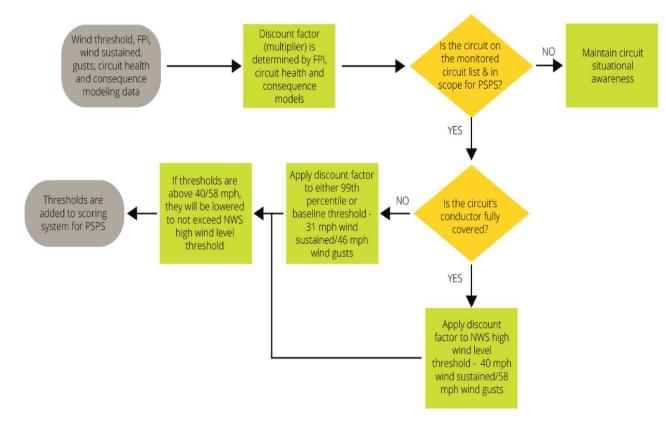
For each PSPS event, every circuit also has a de-energization threshold. De-energization thresholds are determined separately for each circuit to prioritize circuits for deenergization based on the specific risks of the event. This is particularly important for large events where many circuits must be 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

¹⁰ SCE's 2022 Wildfire Mitigation Plan Update dated February 18, 2022.

¹¹ Based on back cast FPI calculation.

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 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. 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 wind speeds at which infrastructure damage may occur.

Thresholds for this PSPS event were set as follows:

Table 2:	Circuit Thresholds	

Cincuit	Wind Speed Thresholds			De-Energization Thresholds		
Circuit	Circuit FPI Threshold Rating		Gust Wind	Sustained Wind	Gust Wind	
BIRCHIM	13	31	46	40	58	

SCE considered the following factors when deciding to conclude this high threat event.

- Observed wind speeds and FPI ratings. Wind speeds of 35 to 50 MPH with isolated gusts of up to 60 MPH were forecasted during the Period of Concern for the Eastern Sierra to include Inyo County, with an FPI rating of 13. Neither wind speed nor FPI thresholds for de-energization were met for this high threat event during the actual Period of Concern. The Birchim circuit did not consistently exceed the de-energization wind thresholds of 40 MPH sustained with gusts of 58 MPH. Peak wind across the Birchim (Segment 4) was measured at 53 MPH, but this wind speed was an outlier and occurred only once.
- Relative humidity levels. Relative humidity levels for the Inyo County area were in the 5-15% range.
- 3. 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.

For each de-energization event, SCE assesses and compares potential public safety risks associated with proactive de-energization (PSPS risk) and simulated wildfire risk (PSPS benefit in avoiding a wildfire) for all circuits in scope, using its PSPS In-Event Risk Comparison Tool.¹² Inputs into this Tool include, among others, in-event weather, and wildfire simulation models, as well as circuit-specific data. The results of the analysis are displayed on the Incident Commander Dashboard 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 the output of the Tool to assess the risk versus the benefit of de-energization on a circuit-by-circuit basis.

The comparative PSPS and wildfire risk estimates are based on the following circuitspecific criteria and information:

• **PSPS Risk**: Customers served, estimated population, and the relative ranking of the circuits in scope by the percentage of Access and Functional Needs (AFN) and Non-Residential Critical Infrastructure (NRCI) customers.

¹² 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 FireCast) and are subject to being updated as the modeling improves.

• Wildfire Risk: Wildfire simulations (using Technosylva FireCast¹³ 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.

This information is used to calculate potential Safety, Financial, and Reliability impacts (or attributes) of: (1) a wildfire and (2) a proactive de-energization 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. ¹⁴ 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	SCE assumes 24 hours without power per customer on each circuit in scope due to wildfire. This duration was used to maintain consistency with Technosylva 24-hour fire propagation simulation, as well as the PSPS impact duration.	SCE estimates the total customer minutes interrupted (CMI) due to proactive de- energization 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

¹³ 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. FireCast is specifically designed to forecast ignition risk associated with electric utility assets over a 3-day horizon based on expected short-term weather conditions.

¹⁴ 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.

Risk Attribute	Wildfire Consequences	PSPS Consequences
	SCE calculates the financial impact of wildfire by assigning a dollar value to	period. SCE conservatively assumes \$250 ¹⁶ per customer, per de-energization event to
Financial	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. ¹⁵	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.

SCE quantifies the resulting PSPS risks and wildfire risks using natural unit consequences for each risk type or attribute; structures impacted, acres burned, customer minutes interrupted, serious injuries and fatalities, etc. "Safety" risk is expressed as an index, "Reliability" risk is measured in terms of customer minutes interrupted (CMI), and "Financial" risk is measured in dollar amounts.

SCE then applies a Multi-Attribute Risk Score (MARS) framework to convert these

¹⁵ 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.

¹⁶ 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.

natural unit consequences to unitless risk scores—one score for PSPS risks and one score for wildfire risks.¹⁷ These risk scores are compared 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), yielding a benefit/risk ratio for each circuit in scope of the PSPS event. If the resulting ratio is equal to 1, the risks are equivalent. If the ratio is greater than one, the wildfire risk exceeds the PSPS risk (the higher the resulting number, the more the wildfire risk outweighs the PSPS risk). If the ratio is less than 1, the PSPS risk outweighs the wildfire risk.

The table below displays circuit-specific inputs—such as the number of customers on a circuit, AFN/NRCI multiplier, number of acres and buildings potentially threatened— which are used to calculate the PSPS and wildfire risk scores (shown in columns titled "PSPS Risk" and "Wildfire Risk") and drive the final output of the Tool. These risk scores are then compared in the last column (highlighted in yellow) titled "FireCast 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 "FireCast Output Ratio" column for are greater than 1, meaning that the wildfire risk exceeded PSPS risk for all circuits in scope. The following results were presented to the Incident Commanders in advance of deenergization to inform PSPS decision-making.

Table 3: PSPS Risk vs. Benefit Comparison Tool

Circuit	All Customers	Population	AFN/NRCI Multiplier	24 Hour CMI (24 x 60)	Firecast Acres	Firecast Buildings	Donulation	PSPS Risk (24 hr Impact- PSPS Model)	· ·	Output
BIRCHIM	557	1671	1.18	1440	3382.6	107	222	0.000117	0.010956	93.36

For this high-threat event, the results of the PSPS In-Event Risk Comparison Tool supported SCE's decision to consider de-energizing Birchim circuit, indicating that the circuit in scope for potential de-energization during this event had a PSPS benefit/risk ratio greater than 1.¹⁸ Therefore, the estimated benefit of PSPS outweighed the

¹⁷ 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

¹⁸ The table showing the results of the PSPS Risk vs. Benefit Comparison Tool includes ratios for <u>all</u> circuits on

estimated risk of PSPS for the circuit in scope.

4. Explanation of alternatives considered and evaluation of each alternative.

Ahead of the period of concern when fire weather that could potentially impact the SCE service territory is forecasted (and conditions warrant), SCE undertakes precautionary measures to prevent the need for PSPS and/or to minimize customer impacts, including enacting operating restrictions,¹⁹ implementing fast curve settings,²⁰ and performing switching operations where possible on circuits in scope for potential de-energization. SCE also pre-patrols circuits in scope and deploys field personnel to circuits at risk to monitor real-time weather and Fire Potential Index data. Once in the Period of Concern, SCE employs PSPS as a last resort measure only when it is necessary to protect public safety, and there are no other available alternatives to mitigate identified wildfire risk. SCE only de-energizes those circuits and/or circuit sections where event-specific thresholds and de-energization triggers are being exceeded after exhausting all other alternatives.

SCE considered various measures to limit the scope of this high threat event and to mitigate potential impacts to customers. Sectionalization and weather stations allowed SCE to limit the scope of a potential de-energization on the Birchim circuit to only three customers. During the Period of Concern, SCE relied on real-time weather station data and information from live field observers monitoring prevailing environmental conditions, such as potential damage from wind gusts, airborne vegetation, or flying debris. Leveraging this information in real time, SCE ultimately did not de-energize any customers on the Birchim circuit during this high threat event.

the monitored circuit list 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 Risk vs. Benefit Comparison Tool are among many quantitative and qualitative factors considered by SCE in its PSPS decision-making process. Although the ratio(s) shown for the circuit(s) in scope supported a potential de-energization, SCE ultimately avoided the need to de-energize any circuits by closely monitoring wind patterns and other FPI inputs relative to preset thresholds.

¹⁹ SCE's System Operating Bulletin No. 322 includes restrictions to limit the potential for a spark to occur or mitigate the risk of an ignition such as limits to circuit switching, recloser operations (e.g., blocking of automatic circuit reclosers), and requirements for personnel to be physically present when operating equipment and circuits subject to hot work restrictions.

²⁰ Fast curve settings reduce fault energy 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 2022 Wildfire Mitigation Plan Update, initiative SH-6.

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

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

This PSPS high threat event began when SCE activated its Emergency Operations Center on June 15th at 12:00pm and ended for all circuits in scope on June 17th at 6:00pm. During the course of this high threat event the Period of Concern was updated to end at 9:00pm and was concluded at 6pm upon validation by SCE's meteorologists. This high threat event encompassed a portion of the Birchim circuit (Segment 4) in Inyo County. SCE did not de-energize any customers during this high threat event. *See* 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.

N/A. SCE did not de-energize any areas during this high threat event.

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.

- County
- De-energization date/time
- Restoration date/time
- "All Clear" declaration date/time
- General Order (GO) 95, Rule 21.2-D Zone 1, Tier 2, or Tier 3classification or non-High Fire Threat District
- Total customers de-energized
- Residential customers de-energized
- Commercial/Industrial customers de-energized
- Medical Baseline (MBL) customers de-energized
- AFN other than MBL customers de-energized²¹

²¹ 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. Currently, SCE reports on impacted AFN customers who have self-certified as sensitive (not enrolled in SCE's MBL or Critical Care programs). SCE also reports on impacted customers that provide shelter to the homeless population, as these entities are included among critical facilities and infrastructure. SCE will endeavor to provide more complete data on impacted AFN customers in the annual post-season report.

- Other Customers
- Distribution or transmission classification

N/A. SCE did not de-energize any circuits or customers during this high threat event.

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 high threat 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.

N/A. No wind related damages or hazards were identified related to this high threat 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 high threat 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 high threat 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, multifamily building account holders/building managers in the AFN community²², 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 in its PSPS notifications and classifies these agencies as critical facilities and infrastructure to ensure they receive priority notifications. All multifamily building SCE account holders receive customer notifications. In its customer notification, SCE directs potentially impacted customers to www.sce.com/psps 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 has been made available on the SCE website. A description of the notice types that may be provided to public safety partners, local governments, Tribal Nations, and customers is provided below. Not all types of notice shown in the table are applicable to this high threat event, as SCE ultimately did not de-energize any customers.

Notification Descriptions								
Type of Notification	Recipients	Description ²³						
Advanced Initial or Initial	Public Safety Partners and Critical Facilities & Infrastructure (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 de- energization (72-48 hours before potential de- energization)						

²²SCE notifies multi-family building account holders in the ordinary course along with other customers of record in scope for a potential de-energization. SCE does not currently have a way to identify which multifamily 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.

²³SCE makes every effort to adhere to the notification timelines required by the CPUC. However, notifications may be delayed in some circumstances due to the sudden onset of dangerous fire weather that was not forecasted or when such weather conditions manifest earlier than predicted by the forecast.

Notification Descriptions							
Type of Notification	Recipients	Description					
Initial or Update	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 (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	PSPS event status update notification to alert for any changes or additions/deletions to current scope (timing varies and may also occur daily).					
Expected Shutoff	Public Safety Partners and Critical Facilities & Infrastructure (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community). Customers (including multi-family building account holders).	Power shutoff expected soon (1-4 hours before potential de- energization).					

Notification Descr	Notification Descriptions						
Type of Notification	Recipients	Description					
Shutoff	Public Safety Partners and Critical Facilities & Infrastructure (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 de-energization is initiated).					
Continued Shutoff	Customers (including multi-family building account holders).	Status update to those customers with an overnight de-energization.					
Patrol and Inspect Prepare to Restore	Public Safety Partners and Critical Facilities & Infrastructure (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community). Customers (including multi-family building account holders).	Inspection/patrols of de- energized circuits for PSPS restoration has begun and power will be restored shortly. (re-energization is imminent)					

Notification Descriptions				
Type of Notification	Recipients	Description		
Restore	Public Safety Partners and Critical Facilities & Infrastructure (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 restored.		
Event- Concluded-All Clear	Public Safety Partners and Critical Facilities & Infrastructure (including local and Tribal governments, Community Choice Aggregators, hospitals, water/wastewater and telecommunications providers, CBOs and paratransit agencies serving the AFN community).	PSPS event is concluded, and no further de-energization expected.		
Event Avoided- All Clear	Customers (including multi-family building account holders).	PSPS event cancelled-no de- energization expected.		
PSPS Ended Restored & All Clear	Customers (including multi-family building account holders).	PSPS event concluded-no further PSPS expected.		

Type of Notification	Recipients	Description
PSPS Restored; NOT All Clear, PSPS Risk Remains	Customers (including multi-family building account holders).	PSPS event remains ongoing re-energization is temporary and additional PSPS risk is possible.

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 high threat event, SCE made significant efforts 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 4: Notification Timeline in the attached data workbook describes the notifications SCE sent for this high threat event, including approximate times of notifications sent to local/tribal governments, public safety partners, and customers prior to potential deenergization and after the decision to cancel the de-energization or remove from scope in accordance with the minimum timelines set forth by the CPUC PSPS Phase 1 Guidelines (D.19-05-042).

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 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 for any unsuccessful positive notifications.

N/A. There were no Medical Baseline customers or other customers with Access and Functional Needs in scope for this high threat event.

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 are attached hereto in Appendix, Attachment A. 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.

N/A. SCE is not aware of any notification failures during this high threat event.

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

N/A. SCE is not aware of any notification failures during this high threat event.

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

N/A. With the exception of cancellation notifications sent to public safety partners and customers in scope, SCE is unaware of any situations during this high threat event that may be viewed as "false communications," as clarified by the Commission in D.21-06-034 {pp.78-80}

Missed/Insufficient Notification

• <u>N/A.</u>

Incorrect Notification

• N/A.

Cancelled notifications

• SCE sent cancellation notifications to public safety partners and 3 customers that had been notified of a potential de-energization but not ultimately de-energized. SCE notified of the potential for de-energization during this high threat event based on forecasted weather ahead of the Period of Concern. During the actual Period of Concern, forecasted fire weather conditions were not observed, and no-de-energization occurred. SCE sent cancellation notices to public safety partners and 3 customers to notify them that the high threat event had ended.

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 affected by the de-energization 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 6: Public Safety Partners Contacted in the attached data workbook for a list of local public safety partners that received notifications related to this high threat 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. Given that there were no critical facilities or infrastructure in scope for this high threat event, SCE did not host a daily briefing for these entities. However, SCE provided information on how to request an invite to the SCE Emergency Operations Center in the briefing deck provided in lieu of a daily coordination call to the following entities.

Entity	Туре
CalOES Warning Center	Public Safety Partner
Cal Fire	Public Safety Partner
California Governor's Office of Emergency Services (CalOES)	Public Safety Partner
California Health and Human Services (CHHS)	Public Safety Partner
California Public Utitilies Commission (CPUC)	Public Safety Partner
Energy Safety	Public Safety Partner
Inyo County Emergency Service Manager	Public Safety Partner

Table 5: Entities	Invited to the SCE Emer	gency Operations Center
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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.

SCE provided accurate and timely geospatial information and real-time updates to GIS shapefiles via the SCE Representational State Transfer Service (REST) to public safety partners before and during the PSPS high threat event. SCE also made this information available to customers at <u>www.sce.com/psps</u> 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 required CalOES Notification forms via the State Dashboard beginning on June 15th at 1:36pm and continuing through June 17th, as well as when there were any applicable changes to scope.²⁴ Following CalOES protocols as outlined, SCE did not conduct a Statewide Briefing Call for this high threat event.²⁵ Given the limited scope of this high threat event, SCE also did not conduct a daily coordination call with public safety partners or critical infrastructure providers potentially impacted by this high threat event. SCE did provide a briefing deck in lieu of a daily coordination call and maintained contact with Inyo County during this high threat event to provide a forum for resolving issues. Table 6: Public Safety Partners Contacted in the attached event data workbook details a list of local public safety partners that received notifications related to this high threat event.

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

SCE provided notification of this PSPS high threat event to the 211 California Network, Regional Center and the Independent Living Center, and American Red Cross that serve Inyo County on June 15th for their awareness; and also provided 24-hour contact information for SCE to escalate any unidentified community issues. Given that there were no customers impacted by a proactive de-energization during this high threat event, additional engagement with and support of the Access and Functional Needs community was not activated for this high threat event.

²⁴ SCE is required to notify CalOES when the following scope changes occur outside of the normal 7am and 3pm updates: more than +/- 10K customers or 10% of scope (whichever is greater) de-energized or +/- any counties in scope.

²⁵ CalOES Public Safety Power Shutoff (PSPS) Standard Operating Guide dated May 17, 2022.

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 thePSPS.

SCE maintains a total of 20 mobile generators for use by critical facilities and infrastructure customers during PSPS events as needed.

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 20-500 KW and have an estimated maximum duration of operation of 24 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.

N/A. No critical facilities and infrastructure customers were in scope for this high threat event as such SCE did not deploy any backup generation to critical facility and infrastructure customers during this high threat event.

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

N/A. No critical facilities and infrastructure customers were in scope for this high threat event as such SCE did not deploy any back-up generation to critical facility and infrastructure customers during this high threat event.

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

N/A. No critical facilities and infrastructure customers were in scope for this high threat event as such SCE did not deploy any back-up generation to critical facility and infrastructure customers during this high threat event.

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

N/A. No critical facilities and infrastructure customers were in scope for this high threat event as such SCE did not deploy any back-up generation to critical facility and infrastructure customers during this high threat event.

Any questions related to the information under this item may be directed to SCE at the following e-mail address: <u>SCEBCDCustomersupport@sce.com</u>.²⁶

²⁶ Although there is no designated contact person for questions, this e-mail inbox is monitored by SCE's Business Customer Division.

Section 7. Complaints and Claims

1. The number and nature of complaints received as the result of the deenergization event and claims that are filed against the utility because of deenergization. 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.

N/A. There were zero reported complaints and zero reported claims associated with this high threat event. SCE will include any future complaints or claims related to this PSPS high threat event received after the filing of date of this report in its annual postseason report.

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.
 - N/A. SCE did not de-energize any circuits during this high threat event.
- 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.
 - N/A. SCE did not de-energize any circuits during this high threat event.

Section 9. Community Resource Centers

1. Report community resource center 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).

N/A. Given the limited scope of this event and the fact that no customers were deenergized, SCE did not deploy any community assistance locations for this event. SCE was able to contact the one residential customer on the Birchim circuit after the high threat event concluded and delivered a Resiliency Kit to the customer to prepare them for any potential future impacts.²⁷

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

N/A. Given the limited scope of this event and the fact that no customers were deenergized, SCE did not deploy any community assistance locations for this event.

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

N/A. SCE did not deploy any community assistance locations for this high threat event.

²⁷ The Resiliency Kit includes pre-charged phone battery, LED lightbulb or flashlight, program Fact Sheets (12), customer survey letter and personal protection equipment (mask, hand sanitizers, etc.).

Section 10. Mitigation to Reduce Impact

- 1. Mitigation actions and impacts (both waterfall graph and map) 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.
 - N/A. SCE did not de-energize any circuits during this high-threat event.

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.

SCE believes our thresholds are adequate and correctly applied in the areas in scope as detailed 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.

Capability	Description	Action Item
In-Event Weather Analysis	During the Period of Concern, SCE piloted inclusion of more frequent weather station reads for situational awareness of real time weather data.	Conduct Joint IOU benchmarking on benefits of more frequent weather station reads for situational awareness

SCE has identified the following lesson(s) learned related to this high threat event.

Section 12. Other Relevant Information

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

SCE has instituted an engagement survey process to capture feedback from State and County public safety partners, and critical infrastructure customers during PSPS events. SCE encourages these stakeholders to provide survey feedback in daily coordination calls and also emails links to the engagement survey once the event has concluded. Given the limited scope of this event and the fact that there was no Daily Coordination Call conducted, the surveys were not sent out for this high threat event.

Attachment A-Public Safety Partner/Customer Notification Scripts

Initial (72-hour) LNO Notification

Description:

Sent one time per county, preferably starting 72 hours in advance of a possible PSPS event, when possible, alerting contacts that our weather specialists forecast potential extreme weather ahead. Includes the Situational Awareness (SA) spreadsheet with information about weather event timing and circuits and locations that could be impacted. Sent to all impacted jurisdictions and other LNO contacts, grouped by county.

Notification Subject Line and Message

SCE Initial Notice for PSPS Event in COUNTY NAME on [start POC DATE].

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 COUNTY NAME. Please refer to the attached spreadsheet for status and periods of concern for specific circuits.

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

Customers on the affected circuits will be notified starting two days before the forecasted start date, however the maps on <u>sce.com/psps</u> will reflect this information today.

We have set up an incident management team for this event including in-house meteorologists, fire scientists, liaison and public information officers, and other technical staff.

Recommended Language to Share with the Public: *SCE is forecasting dangerous winddriven fire conditions starting in the next three days and might need to shut off power during this time. For more information, visit <u>sce.com/PSPS</u>.*

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

Public Safety Partner Portal (available June 1, 2021) PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>. Weather conditions: sce.com/fireweather. Post-PSPS reports: sce.com/psps. REST service (web-based password-protected access to GIS layers), contact: SCERestInfo@sce.com SCE Contact Information for Public Officials only (Please DO NOT share with the public) **First Responders and Emergency Managers:** Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478 Email: Business Resiliency Duty Manager/emergencies: BusinessResiliencyDutyManager@sce.com-- Only monitored during emergency activations. **Government/tribal officials**: Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations. Email: SCELiaisonOfficer@sce.com. Note: Only monitored during emergency activations. SCE Contact Information for the Public: (Please DO share this information via web and social media). Outage-specific customer service issues: 800-611-1911 Billing and service inquiries: 800-684-8123

PSPS event status: <u>sce.com/PSPS</u>

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

<u>Updated Conditions (Update) Notification</u> Description:

Sent once daily after the Initial Notification to provide updates as the period of concern approaches. Includes the Situational Awareness (SA) spreadsheet with information about weather event timing and circuits and locations that could be/are impacted. Sent to all impacted jurisdictions, grouped by county.

Notification Subject Line and Message: SCE Update Notice for PSPS Event in [County Name].

Public Safety Power Shut-Off update notification for official use: We are providing ongoing information and periods of concern for PSPS circuits in [County Name], based on updated weather reports. A complete list, including both the forecasted start and end times for all circuits is attached.

Customers on the affected circuits are being updated if they are within two days of the period of concern, or if there has been a change to their status. The map on <u>sce.com/psps</u> is being continually updated to reflect current status.

Information about Community Resource Centers and Community Crew Vehicles will be available one day in advance of the period of concern at sce.com/psps.

Recommended Language to Share with the Public: *SCE is forecasting dangerous winddriven fire conditions and might need to shut off power. For more information, visit <u>sce.com/PSPS</u>.*

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

Public Safety Partner Portal (available June 1, 2021)

PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: sce.com/maps.

Weather conditions: sce.com/fireweather.

Post-PSPS reports: sce.com/psps.

REST service (web-based password-protected access to GIS layers), contact: <u>SCERestInfo@sce.com</u>

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

First Responders and Emergency Managers:

Phone: Business Resiliency Duty Manager 24/7 hotline: **(800) 674-4478** Email: Business Resiliency Duty Manager/emergencies:

<u>BusinessResiliencyDutyManager@sce.com</u>-- Only monitored during emergency activations. **Government/tribal officials:**

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911 Billing and service inquiries: 800-684-8123 PSPS event status: sce.com/PSPS Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

Expected De-Energize Notification (Imminent De-Energization)

Description:

Sent up to 4 hours in advance of expected power shut off, when possible, for specific circuit(s). No spreadsheet attachment, all content is on the body of the notification. Sent to all impacted jurisdictions. Note: as of 5/15/2021 we still don't have a way to eliminate duplicate notifications when a circuit crosses county lines – all jurisdictions are included with each notification sent for a circuit.

Notification Subject Line and Message:

SCE Expected Shutoff Notice for PSPS Event in County Name.

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: 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.

Customers on the affected circuits are being notified. Information about Community Resource Centers and Community Crew Vehicles is available at <u>sce.com/psps</u>.

Recommended Language to Share with the Public: Due to current weather conditions increasing the risk of wildfires, SCE may shut off power on specific circuits within the next 4 hours to protect public safety. Visit <u>sce.com/PSPS</u> for more information about the shutoffs and SCE's available customer care options.

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire

scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at sce.com/outages.

For More Information:

Public Safety Partner Portal (available June 1, 2021) PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>. Weather conditions: sce.com/fireweather. Post-PSPS reports: sce.com/psps. REST service (web-based password-protected access to GIS layers), contact: SCERestInfo@sce.com SCE Contact Information for Public Officials only (Please DO NOT share with the public) **First Responders and Emergency Managers:** Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478 Email: Business Resiliency Duty Manager/emergencies: BusinessResiliencyDutyManager@sce.com-- Only monitored during emergency activations.

Government/tribal officials:

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: SCELiaisonOfficer@sce.com. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: sce.com/PSPS

Non-PSPS outages: sce.com/outages

Update customer contact information: sce.com/pspsalerts.

Shutoff Notification (De-energization)

Description:

Sent after a PSPS power shut off has been authorized for specific circuit(s). No spreadsheet attachment, all content is on the body of the notification. In 2021 these no longer include the official date/time of the de-energization. Sent to all impacted jurisdictions, grouped by County.

Notification Subject Line and Message:

SCE Shutoff Notice for PSPS Event on [CIRCUIT NAME] Circuit in [COUNTY NAME]. 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:** *If entered in Pega* **Incorporated City of:** [**Incorporated City**] **Unincorporated County Area:** [**unincorporated area description**] SCE is notifying customers who are being shut off. The map on sce.com/psps are being updated to reflect the current PSPS outages. Information about Community Resource **Centers and Community Crew Vehicles is available at sce.com/psps.**

When weather conditions improve, crews will inspect and repair the lines and restore power. Typically power is restored 3 to 8 hours after the end of the weather event.

Recommended Language to Share with the Public: Power has been shut off as part of public safety power shutoffs in our area. Please remember that all non-working traffic lights should be considered 4-way stop signs. Visit <u>sce.com/PSPS</u> for more information about the shutoffs and SCE's available customer care options.

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire

scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

<u>Public Safety Partner Portal</u> (available June 1, 2021)
PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>.
Weather conditions: <u>sce.com/fireweather</u>.
Post-PSPS reports:<u>sce.com/psps</u>.
REST service (web-based password-protected access to GIS layers), contact:
SCERestInfo@sce.com
SCE Contact Information for Public Officials only (Please DO NOT share with the public)
First Responders and Emergency Managers:
Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478
Email: Business Resiliency Duty Manager/emergencies:
Business ResiliencyDutyManager@sce.com-- Only monitored during emergency activations.
Government/tribal officials:

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: <u>sce.com/PSPS</u>

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

Patrol and Inspection (imminent re-energization)

Description:

Sent once inspections are underway and with 1-hour advance notice of expected power restoration, when possible, for specific circuit(s). No spreadsheet attachment, all content is on the body of the notification. Sent to all impacted jurisdictions, grouped by County.

Notification Subject Line and Message:

SCE is inspecting [CIRCUIT NAME] Circuit in [COUNTY NAME] for PSPS restoration. Public Safety Power Shutoff update notification for official use: Our 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 Pega*

Incorporated City: [incorporated city]

Unincorporated County Area: [unincorporated area description]

Typically, power is restored in 3-8 hours. Exceptions include circuits in remote areas and circuits that have sustained significant damage.

SCE is notifying customers. The map on sce.com/psps will be updated to reflect the current status.

Recommended Language to Share with the Public: *SCE is inspecting its lines and, in most cases, will restore power within 3-8 hours. Exceptions include circuits in remote areas and circuits that have sustained significant damage. Please remember to treat all traffic lights that are out as 4-way stops. Visit <u>sce.com/PSPS</u> for more information.*

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting

three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

Public Safety Partner Portal (available June 1, 2021)

PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: sce.com/maps.

Weather conditions: sce.com/fireweather.

Post-PSPS reports: sce.com/psps.

REST service (web-based password-protected access to GIS layers), contact: SCERestInfo@sce.com

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

First Responders and Emergency Managers:

Phone: Business Resiliency Duty Manager 24/7 hotline: **(800) 674-4478** Email: Business Resiliency Duty Manager/emergencies:

BusinessResiliencyDutyManager@sce.com-- Only monitored during emergency activations.

Government/tribal officials:

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: sce.com/PSPS

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

Restore Notification (Re-Energization)

Description:

Sent after a PSPS re-energization has occurred for specific circuit(s). No spreadsheet attachment, all content is on the body of the notification. Sent to all impacted jurisdictions, grouped by County.

Notification Subject Line and Message:

Important: SCE Restoration Notice for PSPS Event on [CIRCUIT NAME] Circuit in [COUNTY NAME].

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 Pega

Incorporated City: [incorporated city]

Unincorporated County Area: [unincorporated area description]

SCE is also notifying customers that power has been turned back on.

Recommended Language to Share with the Public: *SCE has restored power that was shut off during the PSPS event. Visit <u>sce.com/PSPS</u> for more information. If your power is out, visit sce.com/outages.*

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

Public Safety Partner Portal (available June 1, 2021)

PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>.

Weather conditions: <u>sce.com/fireweather</u>.

Post-PSPS reports:<u>sce.com/psps</u>.

REST service (web-based password-protected access to GIS layers), contact:

SCERestInfo@sce.com

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

First Responders and Emergency Managers:

Phone: Business Resiliency Duty Manager 24/7 hotline: **(800) 674-4478** Email: Business Resiliency Duty Manager/emergencies:

BusinessResiliencyDutyManager@sce.com-- Only monitored during emergency activations.

Government/tribal officials:

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: sce.com/PSPS

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

Event Concluded Notification

Example 1: Use when <u>ALL</u> circuits have been restored. If any remain off, use Example 2, below. Note: this is not a county-specific "all clear." The automation system figures out all the jurisdictions that were notified during a specific activation and sends to each of them a final event all-clear.. This is a single last activity performed at the end of the activation that includes all involved in the activation that the event is over. DO NOT send this notification while a PSPS activation is still in progress -- it will incorrectly tell ALL jurisdictions that the event is over!

Notification Subject Line and Message:

SCE PSPS Event Concluded in [COUNTY NAME].

Public Safety Power Shutoff update notification for official use:

Power has been restored to all customers in [county name.] 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 <u>sce.com/outages</u> for more information.*

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

Public Safety Partner Portal (available June 1, 2021) PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>. Weather conditions: <u>sce.com/fireweather</u>. Post-PSPS reports:<u>sce.com/psps</u>. REST service (web-based password-protected access to GIS layers), contact: SCERestInfo@sce.com

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

First Responders and Emergency Managers:

Phone: Business Resiliency Duty Manager 24/7 hotline: **(800) 674-4478** Email: Business Resiliency Duty Manager/emergencies:

<u>BusinessResiliencyDutyManager@sce.com</u>-- Only monitored during emergency activations. **Government/tribal officials:**

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: sce.com/PSPS

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

Example 2: Use when <u>most</u> circuits have been restored but one or more circuit remains de-energized. Note: this is not a county-specific "all clear." When the POC has passed but some circuits remain out, most typically because of 1) delays in patrol (for example requiring air-ops), 2) significant repairs required, or 3) access prohibited by fire crews. Those circuits may be transitioned to Operations and closed out from a PSPS standpoint. That information is included in the Event Concluded notification, indicating power is not fully restored for that circuit(s). **DO NOT** send this notification while a PSPS activation is still in progress -- it will incorrectly tell ALL jurisdictions that the event is over!

Notification Subject Line and Message:

SCE PSPS Event Concluded Notice for [COUNTY NAME].

Public Safety Power Shutoff update notification for official use:

The PSPS event has concluded, however some customers in [county name] remain without power.

Repairs and restoration for these customers will be handled by SCE's regular grid operations:

Circuit:
Segments:
Incorporated City of:
Unincorporated County Area:
Reason for continued outage:

Recommended Language to Share with the Public: The public safety power shutoff in your area has concluded, however some customers remain without power. If your power is still out, please visit <u>sce.com/outages</u> for more information.

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 the weather forecast becomes more exact, additional circuits could be added or removed from our watch lists. Circuits marked *Updated Period of Concern* in the Circuit Notification Status column will have new periods of concern or other changed status. Definitions are on the second tab of the spreadsheet. Please email SCELiaisonOfficer@sce.com with concerns or questions about the spreadsheet.

Weather forecasting: SCE's forecasting relies on in-house meteorologists and fire scientists. SCE may notify for a potential PSPS in advance of Red Flag Warnings being declared by the National Weather Service, and weather forecasts on radio and television may provide different information.

Online outage information: Information and maps are available at <u>sce.com/PSPS</u> starting three days before the forecasted start date. If an outage does not appear on the PSPS map, it might be a weather-related or repair outage in the same area. These are mapped and listed at <u>sce.com/outages</u>.

For More Information:

<u>Public Safety Partner Portal</u> (available June 1, 2021)
PDFs of High Fire Risk Area (HFRA) circuit maps and GIS layers: <u>sce.com/maps</u>.
Weather conditions: <u>sce.com/fireweather</u>.
Post-PSPS reports:<u>sce.com/psps</u>.
REST service (web-based password-protected access to GIS layers), contact:
SCERestInfo@sce.com
SCE Contact Information for Public Officials only (Please DO NOT share with the public)
First Responders and Emergency Managers:
Phone: Business Resiliency Duty Manager 24/7 hotline: (800) 674-4478
Email: Business Resiliency Duty Manager/emergencies:
BusinessResiliencyDutyManager@sce.com-- Only monitored during emergency activations.

Government/tribal officials:

Phone: Liaison (government relations) 24/7 hotline: 800-737-9811. Only monitored during emergency activations.

Email: <u>SCELiaisonOfficer@sce.com</u>. Note: Only monitored during emergency activations.

SCE Contact Information for the Public: (Please DO share this information via web and social media).

Outage-specific customer service issues: 800-611-1911

Billing and service inquiries: 800-684-8123

PSPS event status: sce.com/PSPS

Non-PSPS outages: <u>sce.com/outages</u>

Update customer contact information: sce.com/pspsalerts.

From: <u>SCELiaisonOfficer@sce.com</u> <<u>noreply@everbridge.net</u>> Sent: Friday, June 17, 2022 6:50 PM To: SCE Liaison Officer <<u>SCELiaisonOfficer@sce.com</u>> Subject: PSPS Event Concluded - All Clear

Please click here to acknowledge receipt of this message

The PSPS event on the Birchim circuit has concluded. The Birchim circuit is all clear and was not de-energized

PSPS Variable Notification Templates-Customers 6/15/2022 Activation

1 | Initial Notification

Initial Notification

TEXT/SMS

SCE Safety Outage Alert: High winds and fire conditions are forecasted in your area from <u>Day of week</u><u>morning/afternoon/evening</u>. We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers affected. We'll keep you updated so you know whether your power will be shut off. Visit sce.com/psps for the latest information. For downed power lines, call 911. View in more languages: www.sce.com/PSPSInitial Please reply with 1 to confirm receipt of this message.

VOICE

Important SCE safety outage alert. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and fire conditions are forecasted in your area 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 affected. We'll keep you updated so you know whether your power will be shut off. Visit sce dot com slash psps for the latest information. If you see a downed power line call 911.

EMAIL

Subject:SCE Safety Outage Initial Notification:Public Safety Power Shutoff (PSPS)From:donotreply@scewebservices.comSouthern 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

Important Safety Message from Southern California Edison:

High winds and dangerous fire conditions are forecasted in your area from <u>Day of week</u>. <u>Amorning/afternoon/evening</u> through <u>End Day of week</u> <u>Amorning/afternoon/evening</u>. We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers affected. We'll keep you updated so you know whether your power will be shut off.

This alert applies to the following address(es):

Customer Address Service Account

Meter Number Rate

• For the latest updates, outage map, and information about customer care services, visit sce.com/psps.

• For information about preparing for a power outage, visit <u>sce.com/safety/family/emergency-tips</u>.

• 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!

Page Break

3 | Update Notification

TEXT/SMS

SCE Safety Outage Update: High winds and fire conditions are forecasted in your area from <u>Day of</u> <u>week</u> <u>morning/afternoon/evening</u> through <u>End Day of week</u> <u>morning/afternoon/evening</u>. We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers affected. We'll keep you updated so you know whether your power will be shut off. Visit sce.com/psps for the latest information and availability of community resources. For downed power lines, call 911. View in more languages: <u>www.sce.com/PSPSUpdate</u> Please reply with 1 to confirm receipt of this message.

VOICE

Important SCE safety outage update. To continue in English, press 1. [Spanish press 2], all other languages press 3.... High winds and fire conditions are forecasted in your area 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 affected. We'll keep you updated so you know whether your power will be shut off. 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 Safety Outage Update: Public Safety Power Shutoff (PSPS)From:donotreply@scewebservices.comSouthern California Edison

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

<u>ESPAÑOL</u> <u>한국어</u> 1-800-441-2233 1-800-628-3061

<u>中文</u> 61 1-800-843-8343

TIÊNG VIÊT 43-8343 1-800-327-3031

TAGALOG 1-800-655-4555

MORE LANGUAGES

Important Safety Message from Southern California Edison:

High winds and dangerous fire conditions are forecasted in your area from ^{ADay} of week^A <u>*morning/afternoon/evening</u> through <u>*End day of week* *morning/afternoon/evening</u>. We may have to shut off your power to decrease risk of dangerous wildfires. We are working to reduce the number of customers affected. We'll keep you updated so you know whether your power will be shut off.

This alert applies to the following address(es):

Customer Address Service Account Meter Number Rate

• For the latest updates, outage map, and availability of community resources, visit sce.com/psps.

• For information about preparing for a power outage, visit <u>sce.com/safety/family/emergency-tips</u>.

• 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 | ALL CLEAR - *PSPS EVENT ALL-CLEAR | AVOIDED* (SENT AT ANY TIME WHEN CUSTOMER IS PERMANENTLY OUT OF SCOPE)

TEXT/SMS

SCE Safety Alert: We were able to avoid shutting off your power due to improved weather conditions in your area. If your power is off, please call 1-800-611-1911 or visit sce.com/psps. We understand that planning around these outages is inconvenient. Thanks for your patience as we work to keep our communities safe. View in more languages: www.sce.com/PSPSAllClear Please reply with 1 to confirm receipt of this message.

VOICE

Important SCE Safety Alert: To continue in English, press 1. [Spanish press 2], all other languages press 3.... We were able to avoid shutting off your power due to improved weather conditions in your area. If your power is off, please call 1-800-611-1911 or visit sce dot com slash psps. We understand that planning around these outages is inconvenient. Thank you for your patience as we work to keep our communities safe.

EMAIL

Subject: SCE Safety Update: Public Safety Power Shutoff (PSPS) Event AvoidedFrom: do not reply@scewebservices.comSouthern California Edison

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

<u>ESPAÑOL</u>한국어<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

Important Safety Message from Southern California Edison:

We were able to avoid shutting off your power due to improved weather conditions in your area. If your power is off, please call 1-800-611-1911 or visit sce.com/psps. We understand that planning around these 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

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



PUBLIC SAFETY POWER SHUTOFF:

DECISION-MAKING

PUBLIC SAFETY POWER SHUTOFFS ARE A TOOL OF LAST RESORT TO PROTECT OUR COMMUNITIES FROM THE THREAT OF WILDFIRE.





-5 DAYS FORECASTING

3 DAYS FORECASTING

-2 DAYS FORECAS

DAY OF THE PSPS EVENT

We consider PSPS when weather and fire experts forecast dangerous conditions, including strong winds, very dry vegetation and low humidity. Combined, these create the risk that flying debris or other damage to our wires and equipment could cause a fire with the potential to spread rapidly.



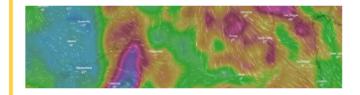
Updated: 3/26/2021

-5 DAYS FORECASTING

-3 DAYS FORECASTING

DAYS FORECASTING

DAY OF THE PSPS EVEN



Our meteorologists and fire scientists continue to review weather conditions, using both internal and external weather models and National Weather Service forecasts, alerts and warnings.



The PSPS Incident Management Team develops a list of circuits that could be impacted. We speak with county offices of emergency management to discuss any public safety issues.



The team is led by an incident commander. Incident commanders undergo continual training for this role and are responsible for all shutoff decisions.



Field crews look for factors that could increase the risk of fire such as existing damage or other hazards to poles and wires.

If the weather report is inconclusive, we will wait for additional weather reports or field assessments before we notify customers. We confer with the National Geographic Area Coordination Center (GACC) about fire danger risk.



The PSPS Incident Management Team reviews options for supplying customers with power from different circuits to keep them energized.



-5 DAYS FORECASTING

-3 DAYS FORECASTING

-2 DAYS FORECASTING

PSPS EVEN

The Incident Management Team looks at twice-daily weather reports to see if the weather pattern has shifted. As the forecast becomes more precise, we update the list of circuits that might be impacted. If the weather pattern has weakened, or shifted outside of high fire risk areas, we will cancel the event. We notify customers. We try to visit our Critical Care and Medical Baseline customers who rely on life-saving medical equipment to confirm they have been informed about the event.

-5 DAYS FORECASTING

3 DAYS FORECASTING

-2 DAYS FORECASTIN

DAY OF THE PSPS EVENT

3-6 Hours: Before the winds are forecasted to hit peak speeds, the Incident Management Team begins monitoring conditions. A team, including experts in grid operations, meteorology and fire science, advise the incident commander, who will make the final decisions to shut off power.

The Incident Management Team monitors more than 1,050 permanent weather stations for changing conditions. As the winds increase, field crews provide mobile weather station reports and report flying debris or other hazards.



-5 DAYS FORECASTING

-3 DAYS FORECASTING

-2 DAYS FORECASTING

DAY OF THE PSPS EVENT

Weather:

Every 10 minutes, weather station readings are updated for each circuit. Meteorologists identify weather trends that could slow or speed up decision-making.

Grid Operations:

The team looks for opportunities to turn off individual segments of a circuit to keep the rest of the circuit powered.

Recommendation:

The lead PSPS operator recommends shutting off power to a circuit or segment when wind speeds are about to hit or exceed our predetermined threshold for unsafe conditions, or field crews advise of an urgent hazard in the field.

> Power is shut off for an individual circuit or circuit segment

Authorization:

The incident commander reviews the recommendation and asks follow-up questions, if necessary, before approving the decision.

AS THE WINDS DIE DOWN, POWER IS RESTORED TO ALL CUSTOMERS When dangerous winds diminish, field crews inspect the lines that had been shut off. Usually, this is done by crews in utility trucks. If there is no damage to the lines, electricity will be restored immediately. The average time for restoration in 2020 was five to six hours, excluding lines that were damaged or required air or foot patrol. Some of these patrols will take longer because they must be done in daylight hours. Attachment C-PSPS Event Data Workbook (Excel File Under Separate Cover)

SCE PSPS Post Event Report June 15, 2022

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 30stth day of June 2022 in Cerritos, California

—Docusigned by: Erik Takayesu

Erik Takayesu Senior Vice President, Asset Strategy & Planning Appendix A

06.15.2022 Public Safety Power Shutoff Post-Event Report Data



SCE Post-Event Report Data June 15, 2022 to June 17, 2022

FILE DESCRIPTION

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

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SOUTHERN CALIFORNIA

SCE Post-Event Report Data

June 15, 2022 to June 17, 2022

SECTION 05: Notifications

otification Timeline					
Event Order	Notification Type	Requirement Timeline	Notification Sent To	Approximate Time Sent	Notes
Pre-De-Energization (prior)	Initial Notice for PSPS Event (Advanced Initial or Initial)	72-48 hours	Local and Tribal governments and other stakeholders including Public Safety Partners, CCAs and CBOs serving the AFN population. Critical Facilities and Infrastructure customers, including water, wastewater, telcos, and hospitals (a subset of Public Safety Partners)	6/15/2022 14:03	N/A
			Critical Facilities and Infrastructure customers, including water, wastewater, telcos, and hospitals (a subset of Public Safety Partners) and all other impacted customers	6/15/2022 14:42	N/A
	Initial Notice for PSPS Event (Initial or Update)	48-24 hours	Critical Facilities and Infrastructure customers, including water, wastewater, telcos, and hospitals (a subset of Public Safety Partners) and all other impacted customers	6/16/2022 11:58	N/A
			Critical Facilities and Infrastructure customers, including water, wastewater, telcos, and hospitals (a subset of Public Safety Partners) and all other impacted customers	6/17/2022 11:24	N/A
	Imminent De-Energize (Expected Shutoff)	4-1 hour (imminent de-energization)	N/A	N/A	N/A
In-Event (during)	De-Energized (Shutoff or Continued Shutoff)	De-energization Notification	N/A	N/A	N/A
Restoration	Imminent Re-Energize (Patrol and Inspect & Prepare to Restore)	Imminent Re-Engergization	N/A	N/A	N/A
	Re-Energized (Restore)	Re-energization Notification	N/A	N/A	N/A
(after)	Event-Concluded-All Clear (Event Avoided All-Clear,		Local and Tribal governments and other stakeholders including Public Safety Partners, CCAs and CBOs serving the AFN population	6/17/2022 18:26	N/A



June 15, 2022 to June 17, 2022

SECTION 05: Notifications

Notification lim	
Notification Time	

Event Order Notification Type	Requirement Timeline	Notification Sent To	Approximate Time Sent	Notes
PSPS Ended, Restored and All Clear, PSPS Restored; Not all Clear, PSPS Risk Remains)	All Clear Notification	Critical Facilities and Infrastructure customers, including water, wastewater, telcos, and hospitals (a subset of Public Safety Partners) and all other impacted customers	6/17/2022 19:15	N/A



June 15, 2022 to June 17, 2022

SECTION 06: Local and State Public Safety Partner Engagement

Entities Invited to SCE Emergency Operations Center				
Entity	Туре			
CalOES Warning Center	Public Safety Partner			
Cal Fire	Public Safety Partner			
California Governor's Office of Emergency Services (CalOES)	Public Safety Partner			
California Health and Human Services (CHHS)	Public Safety Partner			
California Public Utitilies Commission (CPUC)	Public Safety Partner			
Energy Safety	Public Safety Partner			
Inyo County Emergency Service Manager	Public Safety Partner			



June 15, 2022 to June 17, 2022

SECTION 06: Local and State Public Safety Partner Engagement

Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted
Mono County	General Inbox	2	6/15/2022 14:33
Cal Fire	General Inbox	2;3	6/15/2022 14:33
California Department of Developmental Services	General Inbox	2;3	6/15/2022 14:33
California Department of Rehabilitation	General Inbox	2;3	6/15/2022 14:33
California Department of Developmental Services	Deputy Chief, Disaster Services Branch (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Center for Accessible Technology	Legal Counsel (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Emergency Services Manager	2	6/15/2022 14:33
211 California Network	211 Resource & Project Manager	2;3	6/15/2022 14:33
Disability Policy Consultant	Disability Policy Consultant (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Inyo National Forest - Chief 1: FMO	2	6/15/2022 14:33
California Department of Aging	Staff Services Analyst (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Cal Fire	Region Chief	2;3	6/15/2022 14:33
Statewide AFN Council Group Coordinator		2;3	6/15/2022 14:33
Inyo County	HHS - Aging & Social Services Dept. Director	2	6/15/2022 14:33
State Council on Development Disabilities	Executive Director (member of Statewide AFN Council)	2;3	6/15/2022 14:33
The Arc of California	Administrative Assistant (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Mono County	Public Information Manager	2	6/15/2022 14:33
Inyo County	CHP Sergeant	2	6/15/2022 14:33
Inyo County	County Clerk	2	6/15/2022 14:33
Mono County	County Clerk	2	6/15/2022 14:33
Inyo County	County Public Works Director	2	6/15/2022 14:33
Disability Action Center	Northern ILC Representative (member of Statewide AFN Council)	2;3	6/15/2022 14:33



June 15, 2022 to June 17, 2022

SECTION 06: Local and State Public Safety Partner Engagement

Jurisdiction / Organization Title		HFTD Tier	Date/Time Contacted
Inyo County	Dispatch Supervisor-CHP	2	6/15/2022 14:33
Inyo County	Planning Director	2	6/15/2022 14:33
County Welfare Directors Association	General Inbox	2;3	6/15/2022 14:33
Inyo County	Cal Trans	2;3	6/15/2022 14:33
American Red Cross-PSPS Notifications	General Inbox	2;3	6/15/2022 14:33
California Association of Area Agencies of Aging	Superintnendent	2;3	6/15/2022 14:33
Mono County	Parks and Facilities Supt.	2	6/15/2022 14:33
California Department of Developmental Services	Assistant Deputy Director Central Operations Community Care Licensing Division (member of Statewide AFN Council)	2;3	6/15/2022 14:33
California Department of Developmental Services	Office Assistant II Bilingual at Tehama County Department of Social Services (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Lieutenant	2	6/15/2022 14:33
Inyo County	CHP Sergeant	2	6/15/2022 14:33
California Department of Developmental Services	Consumer Services Director (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Heath & Human Services Asst. Director	2	6/15/2022 14:33
California Department of Aging	General Inbox	2;3	6/15/2022 14:33
Inyo County	CHP Sergeant	2	6/15/2022 14:33
CalTrans Dist 9	General Inbox	2;3	6/15/2022 14:33
CA Dept. of Social Services	Deputy Director (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Captain	2	6/15/2022 14:33
211 California Network	CIO (member of Statewide AFN Council)	2;3	6/15/2022 14:33
State Council on Development Disabilities	Legal Counsel (member of Statewide AFN Council)	2;3	6/15/2022 14:33
CalTrans Dist 9	General Inbox	2;3	6/15/2022 14:33
211 California Network	211 Associate Director	2;3	6/15/2022 14:33
Inyo County	Environmental Health Director	2	6/15/2022 14:33
211 California Network	211 Disaster Project Specialist	2;3	6/15/2022 14:33



June 15, 2022 to June 17, 2022

SECTION 06: Local and State Public Safety Partner Engagement

Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted
California Department of Developmental Services	Community Program Specialist III (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Supervisor	2	6/15/2022 14:33
211 California Network	211 Supervisor	2;3	6/15/2022 14:33
ILC San Bernardino, Mono & Inyo County	General Inbox	2;3	6/15/2022 14:33
Inyo County	HHS - Public Health Deputy Director	2	6/15/2022 14:33
California Department of Developmental Services	Bureau Chief, Department Operations Bureau (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Mono County	Supervisor	2	6/15/2022 14:33
Mono County	General Inbox	2	6/15/2022 14:33
Mammoth Lakes	Mono County GIS Specialist	2;3	6/15/2022 14:33
CA Council of the Blind	Community Educator (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Lieutenant	2;3	6/15/2022 14:33
California Partnership for Inclusive Disaster Strategies	Deputy Director Independent Living and Community Access Division (member of Statewide AFN Council)	2;3	6/15/2022 14:33
California Department of Aging	Program Manager (member of Statewide AFN Council)	2;3	6/15/2022 14:33
211 California Network	211 Resource & Project Manager	2;3	6/15/2022 14:33
Inyo County	Inyo National Forest - ECC for both FS and BLM agencies	2	6/15/2022 14:33
CalTrans Dist 9	General Inbox	2;3	6/15/2022 14:33
Cal Fire	Asst Region Chief	2;3	6/15/2022 14:33
California Foundation of Independent Living Centers	Disability Disaster Manager Disability Disaster Access and Resources (DDAR) (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Bishop	City Administrator	2	6/15/2022 14:33
ILC San Bernardino, Mono & Inyo County	General Inbox	2;3	6/15/2022 14:33
California Department of Developmental Services	Customer Relations & Stakeholder Communications Manager (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Lieutenant	2	6/15/2022 14:33
Inyo County	Supervisor	2	6/15/2022 14:33



June 15, 2022 to June 17, 2022

SECTION 06: Local and State Public Safety Partner Engagement

Jurisdiction / Organization	Title	HFTD Tier	Date/Time Contacted
211 California Network	211 Call Center Manager	2;3	6/15/2022 14:33
Inyo County	Health and Human Services Director	2	6/15/2022 14:33
Mono County	Sheriff - Coroner	2	6/15/2022 14:33
County Welfare Directors Association	Director of Legislative Advocacy (member of Statewide AFN Council)	2;3	6/15/2022 14:33
California Department of Developmental Services	Community Program Specialist III-FHA Supervisor (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Public Works Deputy Director	2	6/15/2022 14:33
The Arc of California	Public Policy Director (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Center for Accessible Technology	Legal Counsel (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	Inyo National Forest - Chief 2: AFMO	2	6/15/2022 14:33
Disability Rights California (DRC)	Executive Director Managing Attorney (member of Statewide AFN Council)	2;3	6/15/2022 14:33
CalTrans Dist 9	General Inbox	2;3	6/15/2022 14:33
California Foundation of Independent Living Centers	Executive Director (member of Statewide AFN Council)	2;3	6/15/2022 14:33
Inyo County	California Highway Patrol-Bishop Area Commander	2	6/15/2022 14:33
Mono County	Chairwoman	2	6/15/2022 14:33
Inyo County	County Information Tech. Sr. Programer	2	6/15/2022 14:33
Inyo County	County Information Technology Director	2	6/15/2022 14:33
Inyo County	Environmental Health	2	6/15/2022 14:33
Inyo County	Environmental Health	2	6/15/2022 14:33
Inyo County	HHS Disaster Preparedness Manager & AFT Vulterable Population	2	6/15/2022 14:33
Bishop	City Administrator	2	6/15/2022 14:33
Bishop	Lead Maintenance	2	6/15/2022 14:33
Mono County	OES/Patrol Sergeant	2	6/15/2022 14:33
Mono County	County Administrator	2	6/15/2022 14:33



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SECTION 06: Local and State Public Safety Partner Engagement

Jurisdiction / Organization	Title		Date/Time Contacted	
Mono County	Supervisor	2	6/15/2022 14:33	
Mono County	Director, Information Technology	2	6/15/2022 14:33	
Inyo County	Assistant County Clerk-Recorder	2	6/15/2022 14:33	
Inyo County	Sheriff	2	6/15/2022 14:33	
Bishop	City of Bishop - Public Works Director	2	6/15/2022 14:33	
Mono County	Public Works Director	2	6/15/2022 14:33	
Inyo County	County Supervisor	2	6/15/2022 14:33	
Inyo County	Chairman	2	6/15/2022 14:33	
Mono County	County Supervisor	2	6/15/2022 14:33	
Mono County	County Supervisor	2	6/15/2022 14:33	
Inyo County	Assistand Clerk of the Board-Assistant to the CAO	2	6/15/2022 14:33	
Inyo County	PIO Inyo Sheriff	2	6/15/2022 14:33	
211 California Network	211 Associate Director	2;3	6/15/2022 14:33	
Inyo County	Emergency Director & County CAO	2	6/15/2022 14:33	
Mono County	Staff Services Analyist, Department of Social Services	2	6/15/2022 14:33	
Inyo County	Information Services Deputy Director	2	6/15/2022 14:33	
Inyo County	Supervisor	2	6/16/2022 11:28	
Wheeler Crest Fire Safe Council	General Inbox	2;3	6/17/2022 11:05	
Twin Lakes FSC	General Inbox	2;3	6/17/2022 11:05	
June Lake Fire Safe Council	General Inbox	2;3	6/17/2022 11:05	
Mammoth Lakes Fire Safe Council	General Inbox	2;3	6/17/2022 11:05	
Mammoth Mountain Resort	Emergency Inbox	2;3	6/17/2022 11:05	