SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL® Company

Shinjini C. Menon
Managing Director, State Regulatory Operations

May 3, 2021

ADVICE 4489-E
(U 338-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA
ENERGY DIVISION

SUBJECT: Southern California Edison Company's Quarterly Advice Letter Pursuant to Public Utilities Code Section 8389(e)(7) Regarding the Implementation of Its Approved Wildfire Mitigation Plan and Its Safety Culture Assessment and Safety Recommendations

Southern California Edison Company (SCE) hereby submits this Tier 1 Advice Letter (AL) detailing the implementation of its 2021 Wildfire Mitigation Plan (WMP) Update,[1] recommendations of the most recent safety culture assessment, a statement of the recommendations of its board of directors' safety committee[2] (Committee) meetings that occurred during the first quarter of 2021, and a summary of the implementation of Committee recommendations from previous meetings.[3]

PURPOSE

The purpose of this advice letter is to comply with the provisions of Public Utilities Code (PUC) Section 8389(e)(7), established by California Assembly Bill (AB) 1054.

BACKGROUND

AB 1054 was signed into law by Governor Newsom on July 12, 2019. Section 8389(e)(7), which was added to the PUC by AB 1054, reads:

> The executive director of the commission shall issue a safety certification to an electrical corporation if the electrical corporation provides

1 Although Public Utilities Code Section 8389 requires a quarterly advice letter detailing the implementation of a utility's approved WMP, SCE is reporting on the implementation of its 2021 WMP Update, which is pending approval. Advice 4437-E (submitted March 8, 2021) and SCE's 2020 Annual Report on Compliance (ARC, submitted March 31, 2021) provide details on implementation of SCE's approved 2020-2022 WMP.

2 SCE's board of directors' safety committee is known as the Safety and Operations Committee of the Board of Directors and referred to herein as the "Committee."

3 SCE Advice 4337-E.

> documentation of the following . . . The electrical corporation is implementing its approved wildfire mitigation plan. The electrical corporation shall file a tier 1 advice letter on a quarterly basis that details the implementation of both its approved wildfire mitigation plan and recommendations of the most recent safety culture assessment, and a statement of the recommendations of the board of directors safety committee meetings that occurred during the quarter. The advice letter shall also summarize the implementation of the safety committee recommendations from the electrical corporation's previous advice letter filing. If the division has reason to doubt the veracity of the statements contained in the advice letter filing, it shall perform an audit of the issue of concern.

SCE provides the required information below:

(1) **Implementation of Wildfire Mitigation Plan**

On February 5, 2021, SCE submitted its 2021 Wildfire Mitigation Plan Update,[4] a comprehensive WMP covering 2021-2022 and building on its 2020 WMP. The Update included discussion of 2021 programs and activities, including successes and lessons learned.

In 2021, SCE is tracking 39 specific wildfire-related programs and activities that constitute its 2021 WMP Update, including additional grid hardening, enhanced inspection and repair programs, continuation of aggressive vegetation management, increased situational awareness and response and augmented activities for Public Safety Power Shutoff (PSPS) resilience and community engagement, particularly for underrepresented groups and access and functional needs customers.

In Attachment A (SCE's 2020-2022 Wildfire Mitigation Plan (WMP) Progress Update – Q1 2021), SCE presents detailed information about the implementation status of meeting WMP 2021 Program Targets for each of these wildfire-related mitigation activities and programs. As referenced in Attachment A, SCE is currently substantially on track to meet its 2021 year-end goals set forth in the 2021 WMP Update, but notes that the goal for one activity is currently under review.

(2) **Implementation of Most Recent Safety Culture Assessment**

Safety is the first of SCE's core values and this is demonstrated through the company's commitment to creating and maintaining a safe environment for employees, contractors, and the public. SCE continues to improve its safety

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4 SCE submitted a Supplement to the Update on February 26.

culture via leadership engagement, trainings, corporate messaging and the incorporation of feedback from all levels of the organization.

The Wildfire Safety Division (WSD) has recently initiated its 2021 Safety Culture Assessment (SCA) process for electrical corporations and plans to conduct its first assessment for individual electrical corporations during the summer of 2021. SCE looks forward to working with WSD, its third-party administrator, and other interested stakeholders in 2021 to review its safety culture and build upon existing efforts to strengthen it.

(3) **Recommendations of Safety and Operations Committee**

The Committee had one special meeting and one regular meeting during the first quarter of 2021 (on January 28, 2021 and February 24, 2021). During these meetings, the Committee focused on wildfire and safety issues in the following categories: Wildfire Safety and Worker and Public Safety, among other topics. Each of these areas is separately addressed below. In addition to quarterly meetings, the Committee Chair meets regularly with management to discuss wildfire and worker safety issues.

Wildfire Safety

Discussions during first quarter meetings covered an overview of the January 2021 Commission PSPS meeting, SCE's 2021 WMP Update, and SCE's operational goals regarding the PSPS operations.

At the January special meeting, the Committee received an overview of the January 26 Commission meeting on SCE's PSPS operations events. Management provided details of the meeting, including anticipated further actions by the Commission. The Committee and management discussed PSPS thresholds for de-energization and decision-making as well as customer notifications and communication to stakeholders. The Committee determined that the Committee Chair, Mr. O'Toole, would review SCE's PSPS Action Plan on behalf of the Committee prior to submission to the Commission.

Also at the January special meeting, the Committee reviewed SCE's proposed 2021 WMP Update, focusing on the areas of change from the 2020 WMP. The Committee and management discussed risk analysis and effectiveness metrics included in SCE's 2021 WMP Update, and the feedback received throughout the year from the WSD. The Committee also reviewed additional details of the 2021 WMP Update including continued deployment of covered conductor, improved risk analysis tools, risk-informed inspections, additional system hardening activities, aerial suppression resources, and additional technology and data tools and applications. The Committee and management discussed vegetation management resources, the responsiveness of the submission to Commission and WSD expectations, and continued work on metrics demonstrating both

execution of risk-informed mitigation work and desired outcomes. The Committee and management discussed the additional emphasis on effective communication during PSPS events, progress on the maturity model categories, and the 2021 inspection schedule.

At the January special meeting, the Committee and management also discussed SCE's proposed 2021 operational goals, including revising the PSPS goal to reflect the various improvements and expected work on the PSPS Action Plan.

At the February regular meeting, the Committee received an update on SCE's PSPS Action Plan and the ongoing PSPS proceeding. Management described the key areas for PSPS operations improvements, including continuing to reduce the frequency and scope of events for frequently impacted communities and improved notifications and communication with stakeholders. Management and the Committee discussed the regular feedback from the Commission, addressing potential changes to risk modeling that informs PSPS thresholds and system hardening, and customer care programs.

Also at the February regular meeting, the Committee received a report on the potential new wildfire prevention and mitigation technologies and SCE's process for reviewing such technologies for possible procurement and deployment.

Worker and Public Safety

The Committee received reports on worker safety at its first quarter meetings, discussing worker safety performance and the operational goals focus on contractor management.

At the January special meeting, the Committee discussed the 2021 focus on contractor management in SCE's operational goals.

At the February regular meeting, the Committee received an update on worker safety performance, including recent serious injuries. Management described the focus on data analytics and risk-based safety to improve safety performance and the focus on the analysis of safety performance in specific regions with higher safety incidents. Management and the Committee discussed metrics, improved safety observations, and the assessment of safety performance and culture by region.

Committee Recommendations

In addition to discussing the wildfire and safety topics during first quarter meetings, the Committee made the following recommendations and requests:

1. Recommended the incorporation of PSPS Action Plan along with other PSPS improvement efforts, into the 2021 operational goals.

2. Recommended that the Committee Chair review the PSPS Action Plan.

3. Recommended that SCE provide additional district-specific safety data in a future report to the Committee.

4. Requested periodic ongoing updates on progress on PSPS Action Plan.

5. Recommended that management report on SCA requirements released by the Commission on January 1, 2021 and SCE's plan to address them at a future meeting.

Completed Management Responses to Committee Recommendations

In response to the Committee's recommendations in prior meetings, management provided the following responses during the first quarter meetings:

1. Recommendation (Fourth Quarter 2020): The Committee supports management's continued focus on contractor safety and performance and recommended consideration of contractor management in the development of the 2021 corporate goals.

   Management response: At the January special meeting, management discussed the 2021 focus on contractor management in SCE's operational goals. Previously, at the December 2020 meeting, management had provided updated draft 2021 operational goals including on contractor management, which were later approved as part of the final 2021 corporate goals.

2. Recommendation (First Quarter 2021): The Committee recommended that the Committee Chair review the PSPS Action Plan.

   Management response: The Committee Chair reviewed the PSPS action plan in February 2021 prior to submittal to the Commission.

Pending Management Responses to Committee Recommendations
The following recommendations were made by the Committee in past meetings and management plans to address them at future meetings.

1. Recommendation (Fourth Quarter 2020): The Committee recommended that

management report back to the Committee on their risk evaluation and prioritization methodology in light of the significant increase in ignitions from secondary conductors.

Management response: The Committee received a report that addressed this recommendation at the April 2021 meeting and a summary will be included in the next quarterly AL.

2. Recommendation (Fourth Quarter 2020): The Committee discussed the role and duty of telecommunications companies to inspect and maintain assets to improve safety, reduce ignition risk and provide resilient services as well as address in a timely fashion the repair and maintenance issues identified by SCE. The Committee recommended that management work with telecommunications partners and appropriate regulators and continue to review SCE practices and procedures related to telecommunications services.

   Management response: Management plans to address this recommendation at a future meeting and a summary will be included in the applicable quarterly AL.

The Committee held one regular second quarter meeting on April 21, 2021 and will hold an additional special meeting in June 2021, both of which will be summarized in the next quarterly AL. Additional meetings will be scheduled as appropriate.

TIER DESIGNATION

Pursuant to PUC Section 8389(e)(7), this AL is submitted with a Tier 1 designation.

EFFECTIVE DATE

SCE respectfully requests that this AL become effective May 3, 2021, which is the same date as submitted.

NOTICE

Anyone wishing to protest this AL may do so by letter via U.S. Mail, facsimile, or electronically, any of which must be received no later than 20 days after the date of this advice letter. Protests should be submitted to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, California 94102
E-mail: EDTariffUnit@cpuc.ca.gov

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

In addition, protests and all other correspondence regarding this AL should also be sent by letter and transmitted via facsimile or electronically to the attention of:

Shinjini C. Menon
Managing Director, State Regulatory Operations
Southern California Edison Company
8631 Rush Street
Rosemead, California 91770
Telephone (626) 302-3377
Facsimile: (626) 302-6396
E-mail: AdviceTariffManager@sce.com

Tara S. Kaushik
Managing Director, Regulatory Relations
c/o Karyn Gansecki
Southern California Edison Company
601 Van Ness Avenue, Suite 2030
San Francisco, California 94102
Facsimile: (415) 929-5544
E-mail: Karyn.Gansecki@sce.com

There are no restrictions on who may submit a protest, but the protest shall set forth specifically the grounds upon which it is based and must be received by the deadline shown above.

In accordance with General Rule 4 of GO 96-B, SCE is serving copies of this AL to the interested parties shown on the attached GO 96-B, R.18-10-007, R.18-12-005, and A.18-09-002 service lists. Address change requests to the GO 96-B service list should be directed by electronic mail to AdviceTariffManager@sce.com or at (626) 302-3719. For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at Process_Office@cpuc.ca.gov.

Further, in accordance with PUC Section 491, notice to the public is hereby given by submitting and keeping this AL at SCE's corporate headquarters. To view other SCE advice letters submitted with the Commission, log on to SCE's web site at https://www.sce.com/wps/portal/home/regulatory/advice-letters.

For questions, please contact Kavita Srinivasan at (626) 302-3709 or by electronic mail at kavita.srinivasan@sce.com.

Southern California Edison Company

/s/ Shinjini C. Menon
Shinjini C. Menon

SCM:ks:cm
Enclosures



California Public Utilities Commission

ADVICE LETTER SUMMARY

ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Southern California Edison Company (U 338-E)

Utility type:
☑ ELC ☐ GAS ☐ WATER
☐ PLC ☐ HEAT

Contact Person: Darrah Morgan
Phone #: (626) 302-2086
E-mail: AdviceTariffManager@sce.com
E-mail Disposition Notice to: AdviceTariffManager@sce.com

EXPLANATION OF UTILITY TYPE
ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 4489-E

Tier Designation: 1

Subject of AL: Southern California Edison Company's Quarterly Advice Letter Pursuant to Public Utilities Code Section 8389(e)(7) Regarding the Implementation of Its Approved Wildfire Mitigation Plan and Its Safety Culture Assessment and Safety Recommendations

Keywords (choose from CPUC listing): Compliance

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☐ One-Time ☐ Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? ☐ Yes ☐ No

If yes, specification of confidential information:
Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? ☐ Yes ☐ No

Requested effective date: 5/3/21

No. of tariff sheets: -0-

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: None

Service affected and changes proposed[1]:

Pending advice letters that revise the same tariff sheets: None

[1]Discuss in AL if more space is needed.

Clear Form

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name: Gary A. Stern, Ph.D.
Title: Managing Director, State Regulatory Operations
Utility Name: Southern California Edison Company
Address: 8631 Rush Street
City: Rosemead
State: California Zip: 91770
Telephone (xxx) xxx-xxxx: (626) 302-9645
Facsimile (xxx) xxx-xxxx: (626) 302-6396
Email: advicetariffmanager@sce.com

Name: Tara S. Kaushik c/o Karyn Gansecki
Title: Managing Director, Regulatory Relations
Utility Name: Southern California Edison Company
Address: 601 Van Ness Avenue, Suite 2030
City: San Francisco
State: California Zip: 94102
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx: (415) 929-5544
Email: karyn.gansecki@sce.com

Clear Form

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtailable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	

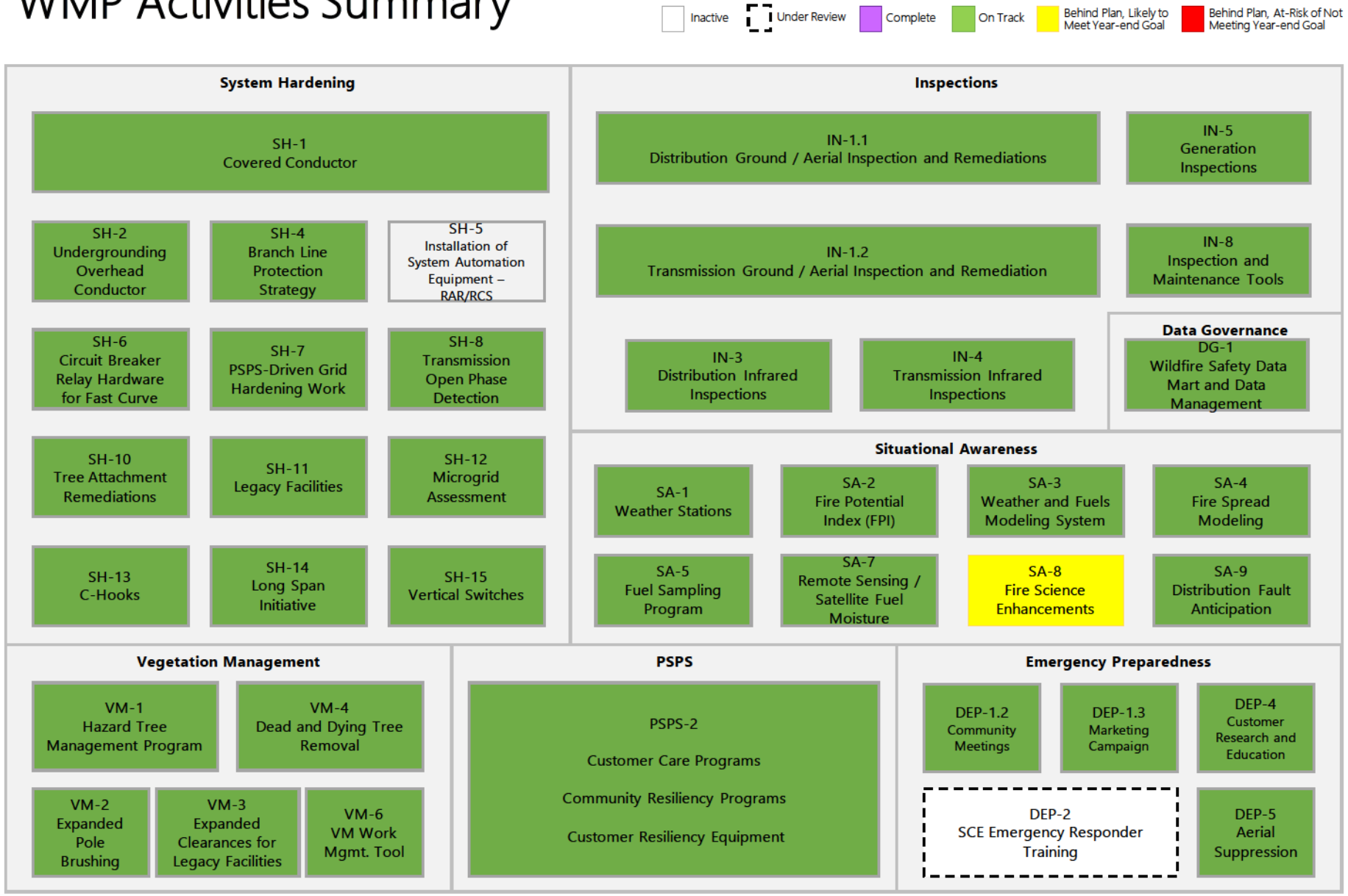
Clear Form

Attachment A

SCE's 2020-2022 Wildfire Mitigation Plan (WMP) Progress Update – Q1 2021

(All data is as of March 31, 2021 or later)

WMP Activities Summary



Source: All data is as of March 31, 2021 or later.
*Reported numbers are subject to revision upon data validation

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Situational Awareness Activities

Weather Stations

Weather Stations (SA-1)

Section 7.3.2.1 Page 192*

Program Target: SCE expects to install 375 weather stations but will attempt to install as many as 475.

Status Update: Preparation work for 2021 installations conducted in Q1. Installations to begin in Q2.

Fire Potential Index (FPI)

FPI (SA-2)

Section 7.3.2.4.1 Page 197

Program Target: 1) Backcast 20 years of FPI using FPI 2.0 before typical height of fire season (Q3) to determine historical performance compared to current FPI 2) Run FPI 2.0 in parallel with the current FPI and compare outputs for the 2021 fire season

Status Update: Continuing to evaluate fuel and weather equation options. SCE is currently testing the usefulness of applying relative fuel moisture values instead of absolute values in Fire Potential Index (FPI) 2.0 fuel equations to inform circuit level decision making.

Weather and Fuels Monitoring System

Weather and Fuels Monitoring System (SA-3)

Section 7.3.2.6.1 Page 203

Program Target: Install two additional High-Performance Computing Clusters (HPCCs) to facilitate the installation and Operationalization of the Next Generation Weather Modeling System allowing or more precise, higher resolution output

Status Update: Components are arriving and High-Performance Computing Clusters (HPCCs) are in process of being built. These new HPCCs will enhance weather/fuel condition data available for PSPS decision making by increasing data resolution, decreasing computing times, and extending forecast horizons further into the future. The location of new HPCCs will be the Irvine Datacenter.

Fire Spread Modeling

Fire Spread Modeling (SA-4)

Section 7.3.2.6.2 Page 205

Program Target: Develop a methodology and a strategy to test FireCast/FireSim implementation into PSPS decision making based on backcast information by Q3

Status Update: Successfully transferred 4.5 million FPI records from 2020 and circuit geometries to vendor to serve as basis for future analyses.

Fuel Sampling Program

Fuel Sampling Program (SA-5)

Section 7.3.2.4.2 Page 198

Program Target: Maintain periodic fuel sampling across SCE's HFRA and evaluate the need to sample additional locations

Status Update: Vendor continues to fill gaps in local fire agencies' fuel sampling programs by supplying reports with quality data in a timely fashion, per project plan.

Remote Sensing / Satellite Fuel Moisture

Remote Sensing / Satellite Fuel Moisture (SA-7)

Section 2.3.2.4.3 Page 200

Program Target: Initiate wind profiler pilot project to validate weather model performance for potential improvements to weather models

Status Update: SCE to issue Purchase Order to vendor by Q2.

*SCE 2021 Wildfire Mitigation Plan Update

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Situational Awareness Activities

Fire Science Enhancements

Fire Science Enhancements (SA-8)

Section 7.3.2.4.4 Page 201

Program Target: Evaluate current wildfire events in context of 40-year history of wildfires

Status Update: SCE plans to develop and operationalize climatology products in Q3 and Q4. In Q1-Q3 SCE is working with vendor to initiate contract and develop output of historical weather data. Issuance of contract was slightly behind plan at the end of Q1.

Distribution Fault Anticipation (DFA)

Distribution Fault Anticipation (DFA) (SA-9)

Section 7.3.2.2 Page 194

Program Target: Complete installation of 120 DFA units on circuits in SCE's HFRA and continue evaluation of DFA technology which may result in SCE installing up to 150 units

Status Update: Devices are in design with installations to begin in Q3.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

System Hardening

Covered Conductor

28%
installed

Covered Conductor (SH-1)

Section 7.3.3.3.1 Page 210
Program Target: SCE expects to install 1,000 circuit miles of covered conductor in SCE's HFRA but will attempt to install as many as 1,400 circuit miles of covered conductor in SCE's HFRA, subject to resources constraints and other execution risks

Status Update: 270 circuit miles installed.

Install RAR/RCS

Installation of System Automation Equipment – RAR/RCS (SH-5)

Section 7.3.3.9 Page 219
Program Target: N/A – If RARs/RCSs are determined to be necessary based on the SH-7 analysis, SCE will develop appropriate project plans

Status Update: Awaiting SH-7 analysis results to determine necessity—analysis is estimated to conclude by the early Q2.

Undergrounding Overhead Conductor

Undergrounding Overhead Conductor (SH-2)

Section 7.3.3.16.1 Page 224
Program Target: Install 4 miles of undergrounded HFRA circuits SCE will attempt to install 6 miles of undergrounded HFRA circuits, subject to resource constraints and other execution risks, such as permitting, environmental or coordinating with other utilities.

Status Update:
Construction to begin in Q2. First miles to be complete in Q3.

Circuit Breaker Relay Hardware for Fast Curve

Circuit Breaker Relay Hardware for Fast Curve (SH-6)

Section 7.3.3.2 Page 209
Program Target: Replace/upgrade 60 relay units in HFRA. SCE will strive to replace/upgrade 86 relay units in HFRA, subject to Resource constraints and other execution risks

Status Update: On track – Installed/replaced 11 CB Replays in Q1

Branch Line Protection Strategy

Branch Line Protection Strategy (SH-4)

Section 7.3.3.7.1 Page 215
Program Target: Install or replace fusing at 330 fuse installation Locations SCE will strive to install or replace fusing at 421 locations, subject to resource constraints and other execution risks

Status Update: On Track - engineering and design work to continue through Q2 and installations to begin in Q3.

PSPS-Driven Grid Hardening

PSPS-Driven Grid Hardening Work (SH-7)

Section 7.3.3.8.1 Page 216
Program Target: SCE will develop a methodology to project probability of PSPS de-energization and impact. Utilizing this methodology, SCE will adopt a more targeted approach by evaluating highly impacted circuits from the remaining 50% circuits in HFRA.

Status Update: Documentation of methodology is under development and on track for the 2021 evaluation. Identification of the remaining 50% of riskiest circuits will follow in Q2.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

System Hardening

Transmission Open Phase Detection
28%
installed

Transmission Open Phase Detection (SH-8)

Section 7.3.3.17.1 Page 225
Program Target: Install transmission open phase detection devices on 10 transmission circuits

Status Update: Protection review completed for 5 of 10 lines with installations to begin in early Q3.

Tree Attachment Remediation
18%
remediations

Tree Attachment Remediation (SH-10)

Section 7.3.3.3.2 Page 213
Program Target: Remediate 500 tree attachments. SCE will strive to complete over 600 tree attachment remediations, subject to resource constraints and other execution risks

Status Update: On track - 92 completions to date.

Legacy Facilities

Legacy Facilities (SH-11)

Section 7.3.3.17.2 Page 226
Program Target: Perform evaluation on 5 circuits for possible hardening. Create 2 project plans based on 2020 engineering assessments on low voltage site. Complete 12 additional assessments on grounding studies/lighting arrestor.

Status Update: In Q1 SCE evaluated 2 circuits in Big Creek and completed grounding studies/lighting assessments on 4 sites. Assessments of low voltage sites to begin in Q2.

Microgrid Assessment

Microgrid Assessment (SH-12)

Section 7.3.3.8.2 Page 218
Program Target: Perform internal assessment of vendor bid and location options. If assessment favorable, issue engineering procurement construction (EPC) contract

Status Update: Undergoing vendor evaluation.

C-Hooks

C-Hooks (SH-13)

Section 7.3.3.15.1 Page 223
Program Target: Replace C-Hooks on at least 40 structures in HFRA. SCE will strive to replace all Chooks in HFRA, currently estimated between 50- 60 structures

Status Update: Sites and locations finalized. Environmental screenings in progress. Engineering design to be completed in Q2 and installations to begin in Q4.

Long Span Initiative

Long Span Initiative (SH-14)

Section 7.3.3.12.1 Page 221
Program Target: Complete all field assessments for locations and corresponding remediations. Remediate the highest risk locations, estimating that 300, and up to 600, locations will be remediated in 2021, subject to the completion timeline for inspections, resource constraints and other execution risks.

Status Update: As of Q1 2021, 58 spans* of the identified 300 high-risk locations have been remediated to date. Upon further validation of 2020 data, SCE notes that some locations were remediated in 2020. SCE clarifies that it will remediate the 300-600 highest risk locations *by* 2021, subject to the completion timeline for inspections, resource constraints and other execution risks.

Vertical Switches

Vertical Switches (SH-15)

Section 7.3.3.17.3 Page 227
Program Target: Install 20 switches in HFRA. SCE will strive to install 30 switches in HFRA.

Status Update: In Q1 SCE evaluated scope. In Q2 SCE will be working on engineering design and installations to begin in Q3.

*This number may increase as more analysis is performed checking for previous work completions, and the remediation of actual pending notifications.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Inspections

YTD Status

Ground

66%

Aerial

4%

Distribution Ground / Aerial Inspections and Remediations (IN-1.1)

Section 7.3.4.9.1 Page 238

Program Target: Inspect between 163,000 and 198,000 structures in HFRA, via both ground and aerial inspections.

Status Update: Completed 108,000 ground inspections and 6,300 aerial inspections. Aerial inspections to begin ramp up in Q2.

YTD Status

Ground

27%

Aerial

27%

Transmission Ground / Aerial Inspections and Remediations (IN-1.2)

Section 7.3.3.16.1 Page 224

Program Target: Inspect between 16,800 and 22,800 structures in HFRA, via both ground and aerial inspections.

Status Update: Completed 4,800 ground inspections and 4,600 aerial inspections.

Distribution Infrared Inspections

29%

Circuits Inspected

Infrared Inspection of energized overhead distribution facilities and equipment (IN-3)

Section 7.3.4.4 Page 234

Program Target: Inspect approximately 50% of distribution circuits in HFRA.

Status Update: Completed inspections on ~29% of distribution circuits in HFRA, approximately 2,600 inspections.

Transmission Infrared Inspections

Infrared Inspection, Corona Scanning and High Definition (HD) Imagery of Transmission facilities and equipment (IN-4)

Section 7.3.4.5 Page 235

Program Target: Inspect 1,000 transmission circuit miles on HFRA circuits

Status Update: Inspection scope development has been completed, planning for flight plans is ongoing and first inspections to occur in Q2.

Generation Inspections

Generation Inspections and Remediations (IN-5)

Section 7.3.4.9.2 Page 242

Program Target: Complete inspection of 181 generation-related assets in HFRA

Status Update: Preparation work for 2021 inspections conducted in Q1. Generation inspections to begin in Q2.

Inspection and Maintenance Tools

Inspection and Maintenance Tools (IN-8)

Section 7.3.4.3.1 Page 232

Program Target: Transition Aerial and Transmission ground inspection process to a single digital platform with at least 75% of inspectors trained to use the tool by year end 2021. Deploy scope mapping tool with GIS visualization to Distribution.

Status Update: Implemented a mobile inspection application update for Distribution ground inspections and completed work to utilize Artificial Intelligence/Machine Learning quality models within existing processes.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Vegetation Management

HTMP

8%
Trees Assessed

Hazard Tree Management Program (VM-1)

Section 7.3.5.15.1 Page 274
Program Target: Assess between 150,000 and 200,000 trees for hazardous conditions and perform prescribed mitigations in accordance with program guidelines and schedules

Status Update: ~12,600 trees have been assessed in Q1 and prescribed mitigations are on track in accordance with program guidelines and schedules. The number of assessors is being ramped up throughout Q1 and Q2.

Dead and Dying Tree Removal

Dead and Dying Tree Removal (VM-4)

Section 7.3.5.15.2 Page 276
Program Target: Perform Drought Relief Initiative (DRI) annual inspections and perform prescribed mitigations in accordance with program guidelines and schedules.

Status Update: On track to complete first pass inspections in Q2. Subsequent inspection passes will be completed throughout the rest of 2021. Prescribed mitigations are on track in accordance with program guidelines and schedules.

Expanded Pole Brushing

17%
Poles Cleared

Expanded Pole Brushing (VM-2)

Section 7.3.3.16.1 Page 224
Program Target SCE plans to pole brush between 200,000 and 300,000 Distribution poles

Status Update: Cleared ~34,400 poles. Productivity is expected to increase throughout Q2 as crews gain experience with new digital work tools.

VM Work Management Tool (Arbora)

VM Work Management Tool (Arbora) (VM-6)

Section 7.3.5.19 Page 278
Program Target: Continue Work Management Tool (Arbora) agile development and releases in accordance with project plan – complete full rollout of Dead & Dying Tree Removal and Hazard Tree Mitigation, and conduct discovery and design architecture associated with Line Clearing

Status Update: Completed initial discovery and design architecture for the Hazard Tree Management Program and Dead and Dying Tree Removal. Pilot expected to launch in Q2 with full rollout planned for Q4.

Expanded Clearances for Legacy Facilities

Expanded Clearances for Legacy Facilities (VM-3)

Section 7.3.5.5.2 Page 262
Program Target: Treat 46 sites

Status Update: Sites have been identified to complete 2021 program target. Expanded clearances have been completed at 11 sites.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Emergency Preparedness Activities

Community Meetings

Customer Education and Engagement – Community Meetings (DEP-1.2)

Section 7.3.10.1.1 Page 319

Program Target: Host at least nine virtual community meetings. SCE will complete additional meetings as needed in 2021, based on PSPS impact to communities, up to 18

Status Update: Three community meetings were held by the end of Q1. The team is currently developing the schedule for the next round of meetings to be held in Q2.

Customer Research and Education

Customer Research and Education (DEP-4)

Section 7.3.10.1.4 Page 327

Program Target: Administer at least 4 PSPS-related surveys (PSPS Tracker Survey to capture feedback on the 2020 events, wildfire Community meeting feedback survey, CRC/CCV feedback survey, In-Language Wildfire Mitigation Communications Effectiveness Pre/Post Survey)

Status Update: Began data collection for 2020 PSPS Tracker Survey in Q1. On track to publish results in Q2. Wildfire Community Meeting surveys are in-progress. CRC/CCV feedback surveys will start with once there are CRC/CCV activations. In-Language Wildfire Mitigation Communications Effectiveness Survey to begin in Q3.

Marketing Campaign

Customer Education and Engagement – Marketing Campaign (DEP-1.3)

Section 7.3.10.1.3 Page 325

Program Target: PSPS Awareness goal: 50%

Status Update: As of the end of Q1 PSPS awareness was at ~60%.

Fuel Sampling Program

Aerial Suppression (DEP-5)

Section 7.3.10.3 Page 331

Program Target: Will enter a Memorandum of Understanding (MOU) with CAL FIRE and local county fire departments to provide standby cost funding for up to 5 aerial suppression resources strategically placed around the SCE service area.

Status Update: SCE has submitted three MOUs to local counties for initial review. 2 counties have provided feedback which has been incorporated into revisions of the respective MOUs and re-submitted. Awaiting response from the third county. At this time there is no plan to send out anymore MOUs to other counties.

SCE Emergency Responder Training

SCE Emergency Responder Training (DEP-2)

Section 7.3.3 Page 308

Program Target:

IMT (Incident Management Team): Have all PSPS IMT and Task Force members fully trained and qualified or requalified by July 1, 2021.

UAS (Unmanned Aircraft System): In 2021 SCE plans to expand the program by an additional 50 operators over 2020 levels.

Status Update:

IMT: On Track – PSPS IMT trainings and qualifications began in Q1 and will continue throughout Q2.

UAS: Under Review – In Q1 three additional operators passed the FAA 107 exam. While this activity is on track relative to its Q1 projected target, SCE is evaluating the current goal (50 additional operators passing the FAA 107 exam) and determining whether progress towards building in-house UAS capabilities is more appropriately tracked by other measures (e.g., advanced flight training and technical qualification standards). SCE notes that this UAS target focuses on building capabilities for emergent use cases and does not impact SCE's ability to perform related WMP activities in 2021. SCE will notify WSD of any revisions in a future Change Orders report.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

Data Governance

Wildfire Safety Data Mart and Data Management

Wildfire Safety Data Mart and Data Management (WiSDM / Ezy) (DG-1)

Section 7.3.7.1 Page 298

Program Target:

WiSDM:

- Complete the WisDM solution analysis and design for centralized data repository
- Initiate staggered consolidation of datasets from SCE Enterprise systems

Ezy Data:

- Implement the cloud platform infrastructure for Ezy Data
- Build a solution for data consumption, storage and visualization of inspection data (LiDAR, HD video, photograph)
- Enable an environment for Artificial Intelligence (AI) assisted analytics

Status Update:

SCE has completed the initial solution design for the Wildfire Safety Data Mart (WiSDM). Staggered consolidation of datasets will begin in Q3. The first release of the Ezy Data cloud platform was also completed in Q1. SCE is currently working on solutions to consume, store, and visualize data from wildfire inspection activities.

WMP Activities Summary

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

PSPS

Customer Care Programs

Customer Care Programs (PSPS-2)

Section 7.3.2.4.4 Page 201

Program Target:

- Community Resource Centers (CRC): Adjust as needed.
- Community Resiliency Programs: Goals for Resilience Zones dependent on community leaders identifying potential customers. Targeting to obtain 5 to 10 agreements. Complete installation of microgrid islanding (CREI) capability on second pilot customer.
- Customer Resiliency Equipment:
  - Critical Care Backup Battery (CCBB): Expand program to eligible MBL customers who are enrolled in CARE/ FERA and reside HFRA. Expand marketing and outreach plans.
  - Well Water & Res Battery Station Rebates: Enhance the programs to increase customer participation by 20% - 40%

Status Update:

- The refreshed CRC strategy for 2021 including evaluation of circuits that will likely be impacted by PSPS events -from the strategy/approach 12 communities have been identified that need CRC coverage (all of which have at least 1 CRC)
- Potential customer sites for participation in resiliency zones have been identified (the list includes 3 Tribal Nations); outreach to those potential customer sites have started
- Current efforts are underway to host PowerTalk webinars with the community-based organizations (CBO)/Faith-based organizations (FBOs) that are engaged with SCE's Wildfire/PSPS preparedness initiative
- Tentative webinar dates to educate CBO/FBOs about CCBB program are scheduled for early Q2

Appendix

Behind Plan Activities Details

2021 WMP Activity Narratives

Behind plan activities

Inactive | Under Review | Complete | On Track | Behind Plan, Likely to Meet Year-end Goal | Behind Plan, At-Risk of Not Meeting Year-end Goal

YTD Status	Current Goal	Narrative
	SA-8: Fire Science Enhancements **Leverage 40-year historical data set so that comparisons can be made with the current model output to put current weather events into context to determine historical significance and apply to SCE's operating needs (PSPS, outages, load forecasting, etc.)**	**Summary:** SCE plans to develop and operationalize climatology products in Q3 and Q4. In Q1-Q3 SCE is working with vendor to initiate contract and develop output of historical weather data. Issuance of contract was slightly behind plan at the end of Q1. **Progress:** • SCE is in the process of reviewing SOW from vendor **Risks or Challenges:** • Finalization of SOW and issuance of PO to vendor have been slightly delayed • Still on-track to get PO to vendor by Q2 milestone as well as kick off project in Q3 **Actions to Improve Performance / Get Well Plan:** • SCE is collaborating with vendor to prioritize workload and reduce the risk for future delays