Supplement to First Errata to San Diego Gas and Electric Company's 2022 Wildfire Mitigation Plan

San Diego Gas and Electric Company (SDG&E) identified 3 additional errata to the 2022 Wildfire Mitigation Plan Update (WMP Update) submitted on February 11, 2022, specifically on Table 5-2. Two other updates were found in Tables 11 and 12. The errata consist of additional information that was identified and included in response to data requests and corrections to information contained within Table 5-2, 11 and 12.

The updates to the 2022 WMP Update are described below and this document.

Table 1: Summary of Supplemental Updates to the WMP

Location	Updated Information
Table 5-2	This information was provided in response to OEIS-SDGE-2022-005, questions 5 and 6
Table 5-2	This information was provided in response to OEIS-SDGE-2022-006, question 2
Table 5-2	Corrected Table 5-2 to include LiDAR Inspections Vegetation Management and Air Quality Sensors, as per Table 12
Attachment B - Table 11	The number of MBL customers impacted by the Q4 2021 PSPS event was updated.
Attachment B - Table 12	The quantitative metric for initiative 7.3.2.2.1 for Air Quality Sensor installations was provided in 2022 and 2023.

Corrections to Provide Additional Information or Clarify Statements

Section 7.3.5.20: In response to OEIS-SDGE-22-005, SDG&E provided corrected vegetation management targets. The question and response is provided below.

OEIS Question 5:

Regarding SDG&E's 2022 pole brushing target:

In Table 5-2 (p. 156), SDG&E's "perform pole brushing" target for 2022 is 35,000 poles. In Section 7.3.5.20 "Vegetation management to achieve clearances around electric lines and equipment" (p. 302) and in Attachment B, Table 12, cell AU91, SDG&E's pole brushing target is 34,000.

a. *Which pole brushing target for 2022 is correct?*

SDG&E Response:

The correct target for pole brushing for 2022 is 34,000.

OEIS Question 6:

Regarding the number 12,500 in Attachment B, Table 12, cell AU80:
In Attachment B, Table 12, cell AU80 (Section 7.3.5.9 "Other discretionary inspections of vegetation around distribution electric lines and equipment") the number "12,500" appears. SDG&E did not indicate the unit.

a. Is cell AU80 supposed to match the target in Table 5-2 "Perform enhanced inspections, patrols and trimming" of 12,824 trees (p. 156)?

i. If so, which number is correct?

ii. If not, to what does 12,500 refer?

SDG&E Response:

a. Yes, cell AU80 is supposed to match the target in Table 5-2 and Table 5-2 is supposed to reflect 12,500 trees.

i. Cell AU80 is the correct target. The correct number is 12,500 and the unit is trees.

Section 7.3.5.8: In response to OEIS-SDGE-22-006, SDG&E provided corrected vegetation management targets. The question and response is provided below.

OEIS Question 2:

Regarding Quantified Vegetation Management Compliance Targets:

a. Does SDG&E plan to perform LiDAR inspections on transmission lines and equipment for vegetation management in 2022 (Section 7.3.5.8 "Remote sensing inspections of vegetation around transmission electric lines and equipment," p. 292)?

i. If so, how many circuit miles?

*b. In SDG&E's response to SDGE-21-07 "Quantified Vegetation Management Compliance Targets," SDG&E states that Section 7.3.5.7 does not have a quantitative target: "Section 7.3.5.7 of the 2022 WMP Update - VM does not currently have quantifiable goals for the use of technologies such as LiDAR" (Attachment D, p. 19). However, in Table 5-2, SDG&E has a 730-mile target for "Remote sensing inspection of vegetation around distribution lines and equipment"; this is consistent with Table 12 where SDG&E shows the same number, 730, for initiative 7.3.5.7. Is the passage quoted above from p. 19 of Attachment D supposed to read "7.3.5.**8**" (i.e., SDG&E has no targets for remote sensing of **transmission** lines and equipment)?*

i. Please state clearly the targets set by SDG&E for 2022 for different kinds of remote sensing for (1) transmission and (2) distribution (including a target of "0" if applicable).

c. In SDG&E's response to SDGE-21-07, SDG&E states "SDG&E will begin quantifying [initiative 7.3.5.13, "Quality assurance/quality control of vegetation management"] in the WMP 2022 Update by recording the number of assets and percentage of completed work audited" (Attachment D, p. 20). In Section 7.3.5.13 of its 2022 WMP Update (p. 293), SDG&E states that it has a "minimum random sampling of 15 percent of completed work..." and in Table 12 under 7.3.5.13, SDG&E puts "15%" for "alternative units" (Cell AU84). However, this 15% does not appear in Table 5-2 "Plan Program Targets"

(p. 150). Is this an error? Did SDG&E intend to include the 15% as a program target in Table 5-2?

SDG&E Response:

a. SDG&E does not plan to perform LiDAR inspection on transmission lines for vegetation management in 2022. SDG&E's Transmission Engineering Department utilizes LiDAR in their design activities. Any potential vegetation conditions identified during this activity are communicated to Vegetation Management. SDG&E's Transmission Construction and Maintenance Department has used LiDAR in past transmission equipment inspection activities and communicated findings to VM.

b. SDG&E plans to refresh LiDAR data for all HFTD distribution circuits in 2022. This activity is described in Section 7.3.4.7. As part of this data capture, SDG&E has a target of 730 distribution circuit line miles in 2022 where vegetation clearance information will be calculated and reviewed. SDG&E does not have any target to complete LiDAR inspections of transmission lines for vegetation management in 2022.
    a. 7.3.5.7 Remote sensing inspections of vegetation around distribution electric lines and equipment (LiDAR) - Target 730 miles
    b. 7.3.5.8 Remote sensing inspections of vegetation around transmission electric lines and equipment (LiDAR) - 0 (No target)

c. Yes, the 15% should be included as a program target in Table 5-2.

Corrections to Table 5-2

Revised Table 5-2 is attached. Revisions to the original filing of the 2022 WMP Update are entered in red text and summarized in Table 1 above.

Corrections to Attachment B Table 11

SDG&E became aware of an error in the reporting of MBL customers impacted by the Q4 2021 PSPS event. The number of MBL customers impacted has been updated in Table 11 from 47 customers to 406 customers.

Corrections to Attachment B Table 12

The quantitative target for initiative 7.3.2.2.1 "Air Quality Index" was provided in Table 12 for 2022 and 2023 and represents the number of Air Quality Sensors being installed.

5.3 Plan Program Targets

Instructions: *Program targets are quantifiable measurements of activity identified in WMPs and subsequent updates used to show progress towards reaching the objectives.*

List and describe all program targets the electrical corporation uses to track utility WMP implementation and utility performance over the last five years. For all program targets, list the 2019 to 2021 performance, a numeric target value that is the projected target for end of year 2022 and 2023, units on the metrics reported, the assumptions that underlie the use of those metrics, update frequency, and how the performance reported could be validated by third parties outside each utility, such as analysts or academic researchers. Identified metrics must be of enough detail and scope to effectively inform the performance (i.e., reduction in ignition probability or wildfire consequence) of each targeted preventive strategy and program.

Pub. Util. Code Section 8386.3(c)(5) requires a utility to notify Energy Safety "after it completes a substantial portion of the vegetation management (VM) requirements in its wildfire mitigation plan." To ensure compliance with this statue, the utility is required to populate Table 5.3-1 with VM program targets that the utility can determine when it has completed a "substantial portion"[1] and that Energy Safety can subsequently audit. Energy Safety has provided some required, standardized VM targets below. It is expected that the utilities provide additional VM targets beyond those required. The identification of other VM targets and units for those targets (e.g., for inspections, customer outreach, enhanced vegetation management, etc.) are at the discretion of the utility.

Additionally, in Table 5.3-1, utilities must populate the column "Target%/ Top-Risk%" for each 2022 performance target related to initiatives in the following categories: Grid design and system hardening; Asset management and inspections; and Vegetation management and inspections. This column allows utilities to identify the percentage of the target that will occur in the highest risk areas. For example, if a utility targets conducting 85% of its vegetation management program in the top 20% of its risk-areas, it should input "85/20" in this column. In the "Notes" column, utilities must provide definitions and sources for each of the "Top-Risk%" values provided. In the given example above, an acceptable response would be: "The top 20% of risk areas used for this target relate to the circuit segment risk rankings from [Utility Company's] Wildfire Risk Model outputs, as described in [hyperlink to Section XX] of the 2022 WMP Update."

Table 5-2: List and Description of Program Targets, Last 5 Years[2]

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
Install weather stations	13	13	30	30	25	46	20	N/A	Weather stations	No
Install cameras	NA	NA	4	4	17	17	8	N/A	Cameras	No
Install wireless fault indicators	500	594	500	502	500	544	500	T3: 85 17.0%/61.4% T2: 40 8.0%/36.2% Non HFTD: 375 75.0%/2.4%	Wireless fault indicators	No

[1] Energy Safety intends to define "substantial portion" in its forthcoming Compliance Guidelines. This definition may be included in the Final version of the 2022 WMP Update Guidelines

[2] This table is numbered 5.3-1 in the 2022 WMP Guidelines.

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
Replace SCADA capacitors	NA	NA	30	30	35	32	36	T3: 2 5.6%/61.4% T2:22 61.1%/36.2% Non HFTD: 12 33.3%/2.4%	SCADA capacitors	No
Covered Conductor Installation	0	0	1	1.9	20	20.6	60	77.3%/71.9%	Miles	No
Expulsion fuse replacement	2,250	2,490	3,000	3,179	3,970	3,976	277	T3: 50 18.1%/61.4% T2:227 81.9%/36.2%	Expulsion Fuses	No
Install sectionalizing devices	7	7	7	23	10	13	10	T3: 10 100.0%/61.4%	Sectionalizing devices	No
Install micro grids	0	0	4	4	0	6	4	T3: 3 75.0%/61.4% T2: 1 25.0%/36.2%	Microgrids	No
Enable circuits with Advanced Protection	NA	NA	8	6	8	4	8	T3: 8 100.0%/61.4%	Circuits	No
Replace hotline clamps	500	660	1,650	2,061	2,250	2,743	1,700	T3: 224 13.2%/61.4% T2: 1476 86.8%/36.2%	Hotline clamps	No
Provide generators to MBL and AFN customers impacted by PSPS	65	65	1,250	1,420	2,000	2,310	2,000	T3: 1000 50.0%/61.4% T2: 1000 50.0%/36.2%	Generators	No
Provide whole facility generators to customers impacted by PSPS	NA	NA	300	75	413	355	415	T3: 207 49.9%/61.4% T2: 208 50.1%/36.2%	Generators	No
Provide generator rebates to customers impacted by	NA	NA	130	1,274	1,250	735	1,250	T3: 625 50.0%/61.4% T2: 625 50.0%/36.2%	Generators	No

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
PSPS within HFTD										
Underground electric lines/equipment	1.6	2.6	11	15.5	25	25.92	65	70%/91.5%	Miles	No
Harden the overhead distribution system - traditional	129.75	122.9	102	99.5	100	100.4	5	T3: 2.9mi 58.0%/61.4% T2: 2.1mi 42.0%/36.2%	Miles	No
Harden transmission system - overhead	7	7	25	21.6	6.7	6.7	23.83	T2: 23.83mi 100.0%/36.2%	Miles	No
Harden transmission system - underground	3	3	0	0	0	0	5.5	T2: 5.5 100.0%/36.2%	Miles	No
Harden transmission system - distribution underbuilt	10	10	9.4	9.4	2.7	3.4	2.7	T2: 2.7 100.0%/36.2%	Miles	No
Fire harden CNF - transmission overhead	28	25	26	29.1	0	0	0	0	Miles	No
Fire harden CNF - distribution overhead	22	26.4	28	21.8	6.86	6.86	0	0	Miles	No
Fire harden CNF - distribution underground	17	8.7	14	14.4	0	0	0	0	Miles	No
Replace lightning arrestors	NA	NA	0	0	924	1,789	1,848	T3: 1848 100.0% /61.4%	Lightning arrestors	No
Install LTE communication network stations	NA	NA	25	15	10	10	25	T3 48.0%/61.4% T2 52.0%/36.2%	Base stations	No
Perform compliance maintenance program	16,500	16,329	17,500	17,977	22,269	22,354	18,000	T3:6530 16.1%/61.4% T2:11647	Inspections	No

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
HFTD - 5-year detailed								28.8%/36.2% Non HFTD:22292 55.1%/2.4%		
Perform transmission system inspections - detailed	37	37	41	41	1,680	1,957	2,087	T3: 644 29.5%/61.4% T2: 1443 66.0%/36.2% Non HFTD: 98 4.5%/2.4%	Inspections	No
Perform distribution infrared inspections	NA	NA	8,500	13,077	18,000	17,068	12,000	T2: 12000 100.0%/36.2%	Inspections	No
Perform transmission infrared inspections	113	112	113	110	6,565	6,239	6,154	T3: 1993 32.4%/61.4% T2: 4161 67.6%/36.2%	Inspections	No
Perform compliance maintenance program HFTD - wood pole intrusive	19,000	19,729	18,000	14,450	9,796	8,721	350	T2: 350 100.0%/36.2%	Inspections	No
Perform HFTD Tier 3 inspections	11,500	15,176	11,500	11,864	10,815	11,535	12,286	T3:12268 99.9%/61.4% T2:18 0.1%/36.2%	Inspections	No
Perform drone assessments of distribution infrastructure	10,000	10,400	33,000	37,310	22,000	21,420	22,000	T2: 22000 100.0%/36.2%	Inspections	No
Perform drone assessments of transmission infrastructure	NA	NA	1,681	2679	2,715	1,440	500	T3: 50 10.0%/61.4% T2: 450 90.0%/36.2%	Inspections	No
Perform transmission system inspections -	27	27	21	21	1,654	1,652	1,654	T3: 1654 100.0% /61.4%	Inspections	No

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
aerial 69kV Tier 3 visual										
Perform compliance maintenance program HFTD - annual patrols	86,000	86,401	86,000	86,075	86,000	86,490	86,490	T3: 39550 45.7%/61.4% T2: 46940 54.3%/36.2%	Inspections	No
Perform transmission system inspections - visual	117	116	117	114	7,024	6,423	6,312	T3: 1993 31.6%/61.4% T2: 4319 68.4%/36.2%	Inspections	No
Perform substation system inspections	330	301	330	405	330	405	330	T3: 215 65.2%/61.4% T2: 115 34.8%/36.2%	Inspections	No
Perform detailed inspections (tree trimming)	455,000	453,330	455,000	451,207	455,000	502,132	491,822	T3:115,038 23.4%/61.4% T2: 142,139 28.9%/36.2% Non HFTD: 234,645 47.7%/2.4%	Trees inspected	Yes
Perform fuels management	550	511	300	324	500	463	500	T3: 400 80.0%/61.4% T2: 100 20.0%/36.2%	Poles cleared	No
Remote sensing inspections of vegetation around distribution lines and equipment (LiDAR)	NA	NA	NA	NA	NA	NA	730	T3: 309 42%/61.4% T2: 396 54%/36.2% Non HFTD: 334%/2.4%	Miles	No
Perform enhanced inspections, patrols and trimming	7,500	8,310	17,000	17,075	17,000	12,578	12,500	T3: 5,386 43.1%/61.4% T2:7,114 56.9%/36.2%	Trees trimmed/ removed	No
Perform pole brushing	35,500	34,000	35,500	36,563	35,500	35,102	34,000	T3: 14756 43.4%/61.4% T2: 15776 46.4%/36.2%	Poles brushed	No

Program Target	2019		2020		2021		2022		Units	Audited 3rd Party
	Target	Performance	Target	Perf.	Target	Perf.	Target	Target% / Top-Risk% *		
								Non HFTD: 3468 10.2%/2.4%		
Remove trees with strike potential	NA	NA	NA	NA	NA	NA	106	T3: 40 37.7%/61.4% T2: 46 43.4%/36.2% Non HFTD: 20 18.9%/2.4%	VMAs inspected	No
Install Avian Protection	NA	NA	NA	NA	NA	NA	847	T3: 91 10.7%/61.4% T2: 711 83.9%/36.2% Non HFTD: 45 5.3%/2.4%Yes	Poles	No
Quality assurance / quality control of vegetation management	NA	NA	NA	NA	NA	NA	15% of Inspections	NA	Inspection Audits	
Install Air Quality Sensors	NA	NA	NA	NA	NA	NA	6	T3: 6 100%/61.4%	Sensors	

* The Top-Risk% values are as follows:

- For covered conductor and undergrounding the Top Risk % was calculated using the wildfire risk scores of each distribution circuit from SDG&E's WiNGS-Planning tool which is described in Section 4.5.1.7. Please note that work is currently being scoped using the WiNGS-Planning tool, but the work planned for 2022 was scoped prior to the development of WiNGS-Planning.
- For all other programs, which are not prioritized using WiNGS-Planning, the Top Risk % was calculated using the Pre-Mitigation Wildfire Risk Score for Tier 3, Tier 2 and Non-HFTD (See Table 4-3) divided by the Total Pre-Mitigated Wildfire Risk Score (See Table 4-2). The Top Risk % is in Tier 3, followed by Tier 2 and Non-HFTD. For each target, SDG&E provides the percentage of planned work in each Tier, and the accompanying percentage of overall wildfire risk.
    - Top Risk % are:
        - Wildfire Risk – Tier 3 61.4%
        - Wildfire Risk – Tier 2 36.2%
        - Wildfire Risk – Non-HFTD 2.4%

Utility	SDG&E
Table No.	11
Date Modified	2022 03 31

Notes:
"PSPS" = Public Safety Power Shutoff
In future submissions update planned upgrade numbers with actuals

Table 11: Recent use of PSPS and other PSPS metrics

			Actual													Projected									
Metric type	**#**	**Outcome metric name**	**2015**	**2016**	**2017**	**2018**	**2019**	**Q1 2020**	**Q2 2020**	**Q3 2020**	**Q4 2020**	**Q1 2021**	**Q2 2021**	**Q3 2021**	**Q4 2021**	**Q1 2022**	**Q2 2022**	**Q3 2022**	**Q4 2022**	**Q1 2023**	**Q2 2023**	**Q3 2023**	**Q4 2023**	**Unit(s)**	**Comments**
1. Recent use of PSPS	1.a.	Frequency of PSPS events (total)	0	0	5	4	4	0	0	1	4	0	0	0	1	0	0	0	3.2	0	0	0	3.2	Number of instances where utility operating protocol requires de-	
	1.b.	Scope of PSPS events (total)	0	0	200	265	324	0	0	2	512	0	0	0	13	0	0	0	116.5	0	0	0	116.5	Circuit-events, measured in number of events multiplied by number of	
	1.c.	Duration of PSPS events (total)	0	0	658,397	1,044,423	1,304,723	0	0	358	2,631,426	0	0	0	147,767	0	0	0	617,794	0	0	0	617,794	Customer hours per year	Metric definition 1.c. was updated based on the correction
2. Customer hours of PSPS and other outages	2.a.	Customer hours of planned outages including PSPS (total)	1,010,005	859,290	1,771,855	2,062,326	2,333,445	246,957	98,578	428,184	2,805,055	384,390	445,526	549,162	493,707	256,240	289,673	328,685	867,872	256,240	289,673	328,685	997,294	Total customer hours of planned outages per year	In 2021 QDR-Q4 filing, data point for 2015 is updated using archieved data file. The reporting system of record stores data
	2.b.	Customer hours of unplanned outages, not including PSPS (total)	1,504,042	2,058,237	2,090,995	1,887,418	1,705,636	346,753	385,697	1,113,938	470,886	407,865	388,531	391,676	515,343	484,040	322,394	573,414	515,440	484,040	322,394	573,414	515,440	Total customer hours of unplanned outages per year	
	2.c.	System Average Interruption Duration Index (SAIDI) (including PSPS)	63.26	86.01	117.49	121.02	122.96	13.95	15.52	44.83	126.10	16.44	15.66	15.79	26.73	19.91	13.22	23.51	46.03	19.91	13.22	23.51	46.03	SAIDI index value = sum of all interruptions in time period where each interruption is defined as sum(duration of interruption * # of customer	
	2.d.	System Average Interruption Duration Index (SAIDI) (excluding PSPS)	63.26	86.01	86.64	77.45	69.21	13.95	15.52	44.81	18.94	16.44	15.66	15.79	20.77	19.91	13.22	23.51	21.13	19.91	13.22	23.51	21.13	SAIDI index value = sum of all interruptions in time period where each interruption is defined as sum(duration of interruption * # of customer	
	2.e.	System Average Interruption Frequency Index (SAIFI) (including PSPS)	0.62	0.68	0.58	0.66	0.64	0.13	0.17	0.27	0.22	0.16	0.14	0.15	0.18	0.16	0.13	0.19	0.17	0.16	0.13	0.19	0.17	SAIFI index value = sum of all interruptions in time period where each interruption is defined as (total # of customer interruptions) / (total # of	
	2.f.	System Average Interruption Frequency Index (SAIFI) (excluding PSPS)	0.62	0.68	0.57	0.64	0.61	0.13	0.17	0.27	0.16	0.16	0.14	0.15	0.18	0.16	0.13	0.19	0.16	0.16	0.13	0.19	0.16	SAIFI index value = sum of all interruptions in time period where each interruption is defined as (total # of customer interruptions) / (total # of	
3. Critical infrastructure impacted by PSPS	3.a.	Critical infrastructure impacted by PSPS	0	0	633	832	968	0	0	0	2359	0	0	0	241	0	0	0	1007	0	0	0	1007	Number of critical infrastructure (in accordance with D.19-05-042)	
4. Community outreach of PSPS metrics	4.a.	# of customers impacted by PSPS	0	0	17,619	30,069	49,880	0	0	49	100,488	0	0	0	5,858	0	0	0	14,858	0	0	0	14,858	same customer, count each event as a separate customer)	During PSPS events in 2020 December, customers who were fed
	4.b.	# of medical baseline customers impacted by PSPS	0	0	937	1,812	2,853	0	0	6	6,427	0	0	0	406	0	0	0	1,499	0	0	0	1,499	# of customers impacted by PSPS (if multiple PSPS events impact the same customer, count each event as a separate customer)	
	4.c.	# of customers notified prior to initiation of PSPS event	0	0	17,619	30,069	47,969	0	0	49	91,760	0	0	0	5,811	0	0	0	12,438	0	0	0	12438	# of customers notified of PSPS event prior to initiation (if multiple PSPS events impact the same customer, count each event in which customer	
	4.d.	# of medical baseline customers notified prior to initiation of PSPS event	0	0	937	1,812	2,756	0	0	6	6,262	0	0	0	406	0	0	0	1,272	0	0	0	1,272	# of customers notified of PSPS event prior to initiation (if multiple PSPS events impact the same customer, count each event in which customer	
	4.e.	% of customers notified prior to a PSPS event impacting them	0	0	100%	100%	96%	0	0	100%	91%	0	0	0	99%	0	0	0	97.8%	0	0	0	97.8%	=4.a. / 4.c.	
	4.f.	% of medical baseline customers notified prior to a PSPS event impacting them	0	0	100%	100%	97%	0	0	100%	97%	0	0	0	100%	0	0	0	99.0%	0	0	0	99.0%	=4.a. / 4.c.	
5. Other PSPS metrics	5.a.	Number of PSPS de-energizations	0	0	0	0	1	0	0	1	1	1	0	0	0	0.5	0.0	0.5	0.5	0.5	0	0.5	0.5	Number of de-energizations	Number of instances where utility notified the public of a potential PSPS event but no de-energization followed
	5.b.	Number of customers located on de-energized circuit	0	0	67,266	79,587	112,582	0	0	4,214	154,413	0	0	0	14,832	0	0	0	81,153	0	0	0	81,153	Number of customers	
	5.c.	Customer hours of PSPS per RFW OH circuit mile day	0	0	3.46	8.31	24.40	0.00	0.00	0.01	42.40	0	0	0	7.48	0	0	0	6.3	0	0	0	6.3	=1.c. / RFW OH circuit mile days in time period	=1.c./table 6 1.a.
	5.d.	Frequency of PSPS events (total) - High Wind Warning wind conditions	0	0	1	3	2	0	0	0	3	0	0	0	1	0	0	0	1.6	0	0	0	1.6	Events over time period that overlapped with a High Wind Warning as defined by the National Weather Service	
	5.e.	Scope of PSPS events (total) - High Wind Warning wind conditions	0	0	16,848	30,048	49,462	0	0	0	90,748	0	0	0	5,858	0	0	0	13,868	0	0	0	13,868	Estimated customers impacted over time period that overlapped with a High Wind Warning as defined by the National Weather Service	
	5.f.	Duration of PSPS events (total) - High Wind Warning wind conditions	0	0	703,117	1,037,164	1,226,192	0	0	0	2,341,161	0	0	0	147,767	0	0	0	597,055	0	0	0	597,055	Customer hours over time period that overlapped with a High Wind Warning as defined by the National Weather Service	In 2021 WMP update, 5.f. was based on the definition- "outage duration". To align with 1.c. definition correction requested in

Utility	SDG&E	Notes:
Table No.	12	Risk-Spend-Efficiency (RSE) is defined as "An estimate of the cost-effectiveness of initiative, calculated by dividing the mitigation risk reduction benefit by the mitigation cost estimate based on the full set of risk reduction benefits estimated from the incurred costs."
Date Modified	2022 02 14	CAPEX = Capital expenditure; OPEX = Operating expenditure.

Table 12: Mitigation initiative financials

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Metric type	WMP Table # / Category	WMP Initiative #	Initative activity	Primary driver targeted	Secondary driver targeted	Year initiated	Estimated RSE territory-wide	Estimated RSE in non-HFTD region	Estimated RSE in HFTD Zone 1	Estimated RSE in HFTD Tier 2	Estimated RSE in HFTD Tier 3	If existing: most recent proceeding that has reviewed program	If new: memorandum account	Current compliance status - In / exceeding compliance with regulations	Associated rule(s) - if multiple, separate by semi-colon - ";"	If spend not disaggregated by category, note spend category or mark general operations	Comments
Other	Risk Assessment & Mapping	7.3.1.1	A summarized risk map that shows the overall ignition probability and estimated wildfire consequence			2012	NA	NA	NA	NA	NA	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Risk Assessment & Mapping	7.3.1.2	Climate-driven risk map and modelling based on various relevant weather scenarios			2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	A summarized risk	
Other	Risk Assessment & Mapping	7.3.1.3	Ignition probability mapping showing the probability of ignition along the electric lines and equipment			2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	A summarized risk	
Other	Risk Assessment & Mapping	7.3.1.4	Initiative mapping and estimation of wildfire and PSPS risk-reduction impact			2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	A summarized risk	
Other	Risk Assessment & Mapping	7.3.1.5	Match drop simulations showing the potential wildfire consequence of ignitions that occur along the electric			2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	A summarized risk	
Other	Situational Awareness & Forecasting	7.3.2.1	Advanced weather monitoring and weather stations			2010	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Other	Situational Awareness & Forecasting	7.3.2.2	Continuous monitoring sensors			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Situational Awareness & Forecasting	7.3.2.3.	Fault indicators for detecting faults on electric lines and equipment	PSPS - for sectionalization, etc.		2011	NA	371.78	NA	263.75	247.08	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Situational Awareness & Forecasting	7.3.2.4.	Forecast of a fire risk index, fire potential index, or similar														
Other	Situational Awareness & Forecasting	7.3.2.5	Personnel monitoring areas of electric lines and equipment in elevated fire risk conditions	Equipment failure	Other contact with	2008	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Situational Awareness & Forecasting	7.3.2.6.	Weather forecasting and estimating impacts on electric lines and equipment			2009	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Situational Awareness & Forecasting	7.3.2.2.1	Air Quality Index			2022	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Situational Awareness & Forecasting	7.3.2.2.2	Satellite-based remote sensing			2022	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Situational Awareness & Forecasting	7.3.2.4.1	Fire Potential Index			2012	NA	NA	NA	NA	NA	2019 GRC	NA	NA	NA	Fire Potential Index	
Other	Situational Awareness & Forecasting	7.3.2.4.2	Santa Ana Wind Threat Index (SAWTI)			2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	Forecast of a fire risk index,	
Other	Situational Awareness & Forecasting	7.3.2.4.3	High-Performace Computing Infrastructure			2012	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.1.	Capacitor maintenance and replacement program (SCADA)	Equipment failure		2016	NA	409.37	NA	165.61	31.62	2019 GRC	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.2.	Circuit breaker maintenance and installation to de-energize lines upon detecting a fault			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Grid hardening	Grid Design & System Hardening	7.3.3.3.	Covered conductor installation	Other contact with	Equipment failure	2020	NA	NA	NA	10.66	17.92	NA	WMPMA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.4.	Covered conductor maintenance			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Detailed inspections of	
Grid hardening	Grid Design & System Hardening	7.3.3.5.	Crossarm maintenance, repair, and replacement			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Detailed inspections of	
Grid hardening	Grid Design & System Hardening	7.3.3.6.	Distribution pole replacement and reinforcement, including with composite poles			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Grid hardening	Grid Design & System Hardening	7.3.3.7.	Expulsion fuse replacement	Equipment failure		2019	NA	NA	NA	117.44	411.11	NA	WMPMA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.8.	Grid topology improvements to mitigate or reduce PSPS events														
Grid hardening	Grid Design & System Hardening	7.3.3.9.	Installation of system automation equipment (advanced protection)	PSPS - for sectionalization, etc.		2011	NA	NA	NA	NA	178.31	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.10.	Maintenance, repair, and replacement of connectors, including hotline clamps	PSPS - for sectionalization, etc.		2019	NA	NA	NA	50.44	149.57	NA	WMPMA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.11.	Mitigation of impact on customers and other residents affected during PSPS event														
Grid hardening	Grid Design & System Hardening	7.3.3.12.	Other corrective action			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	Detailed inspections of	
Grid hardening	Grid Design & System Hardening	7.3.3.13.	Pole loading infrastructure hardening and replacement program based on pole loading assessment program			2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	Traditional Hardening	
Grid hardening	Grid Design & System Hardening	7.3.3.14.	Transformers maintenance and replacement			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Grid hardening	Grid Design & System Hardening	7.3.3.15.	Transmission tower maintenance and replacement			1997	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Grid hardening	Grid Design & System Hardening	7.3.3.16.	Undergrounding of electric lines and/or equipment	Other contact with	Equipment failure	2019	NA	NA	NA	113.77	57.66	NA	WMPMA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.	Updates to grid topology to minimize risk of ignition in HFTDs														
Grid hardening	Grid Design & System Hardening	7.3.3.8.1	PSPS Sectionalizing	PSPS - for sectionalization, etc.		2019	NA	1067.23	NA	1106.66	2166.36	NA	WMPMA	Exceeds	G.O. 95		

WMP Initiative #	Actual																					Projected													
	2019							2020							2021							2022							2023						
	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles to be treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles to be treated		Alternative units (if used)
	Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD	
7.3.1.1	270	270	-	-	-	-	-	1,191	1,191	-	-	-	-	-	1,446	1,446	-	-	-	-	-	2,200	2,200	2,354	2,354	-	-	-	2,420	2,420	2,979	2,979	-	-	-
7.3.1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.2.1	564	564	-	-	-	-	13	1,087	1,087	-	-	-	-	30	391	391	-	-	-	-	46	525	525	-	-	-	-	20	383	383	-	-			18
7.3.2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
7.3.2.3.	797	797	-	-	-	-	594	835	835	-	-	-	-	-	1,104	1,104	-	-	-	-	544	687	687	-	-	-	-	500	-	-	-	-	-	-	-
7.3.2.4.																																			
7.3.2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.2.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.2.2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			6
7.3.2.2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.2.4.1	3	3	1,728	1,728	-	-	-	343	343	3,363	3,363	-	-	-	38	38	2,812	2,812	-	-	-	243	243	3,697	3,697	-	-	-	323	323	4,066	4,066	-	-	-
7.3.2.4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.2.4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,500	5,500	-	-	-	-	-	-	-	-	-	-	-	-
7.3.3.1.	200	200	-	-	-	-	NA	1,038	1,038	-	-	-	-	30	2,806	2,806	-	-	-	-	35	3,231	2,132	-	-	-	-	40	1,815	1,198	-	-	-	-	33
7.3.3.2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.3.3.	1,463	1,463	-	-	-	-	-	2,594	2,594	-	-	-	###	-	39,389	39,389	519	517		20	-	124,643	124,643	594	594	-	60	-	150,872	150,872	754	754	-	-	100
7.3.3.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.3.5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.7.	3,716	3,716	-	-	-	-	2,490	6,521	6,521	-	-	-	-	3,179	6,489	6,489	-	-	-	-	3,976	734	734	-	-		-	227	-	-	-	-	-	-	-
7.3.3.8.																																			
7.3.3.9.	3,480	3,480	-	-	-	-	NA	9,117	9,117	-	-	-	-	6	10,825	10,825	-	-	-	-	4	12,938	12,938	-	-		-	8	11,669	11,669	-	-	-	-	8
7.3.3.10.	-	-	922	922	-	-	660	-	-	3,299	3,299	-	-	2,061	-	-	3,714	3,714	-	-	2,743	-	-	4,321	4,321		-	1,650	-	-	4,321	4,321	-	-	1,200
7.3.3.11.																																			
7.3.3.12.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.13.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.14.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.15.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
7.3.3.16.	192	192	-	-	-	3	-	38,790	38,790	-	-	-	###	-	69,410	69,410	-	-	-	26	-	188,845	188,845	1,049	1,049	-	65	-	310,038	310,038	1,726	1,726	-	-	125
7.3.3.17.																																			
7.3.3.8.1	1,321	1,106	-	-	-	-	7	4,854	4,062	-	-	-	-	23	1,911	1,574	-	-	-	-	13	1,910	1,527	-	-	-	-	10	1,526	1,220	-	-	-	-	10

Utility	SDG&E
Table No.	12
Date	
Modified	2022 02 14

Notes:
Risk-Spend-Efficiency (RSE) is defined as "An estimate of the cost-effectiveness of initiative, calculated by dividing the mitigation risk reduction benefit by the mitigation cost estimate based on the full set of risk reduction benefits estimated from the incurred costs."
CAPEX = Capital expenditure; OPEX = Operating expenditure.

Table 12: Mitigation initiative financials

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Metric type	WMP Table # / Category	WMP Initiative #	Initative activity	Primary driver targeted	Secondary driver targeted	Year initiated	Estimated RSE territory-wide	Estimated RSE in non-HFTD region	Estimated RSE in HFTD Zone 1	Estimated RSE in HFTD Tier 2	Estimated RSE in HFTD Tier 3	If existing: most recent proceeding that has reviewed program	If new: memorandum account	Current compliance status - In / exceeding compliance with regulations	Associated rule(s) - if multiple, separate by semi-colon - ";"	If spend not disaggregated by category, note spend category or mark general operations	Comments
Grid hardening	Grid Design & System Hardening	7.3.3.8.2	Microgrids	PSPS - for sectionalization, etc.		2019	NA	18.07	NA	1.02	203.25	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.11.1	Generator Grant Program	PSPS - for sectionalization, etc.		2020	NA	2.81	NA	164.05	211.3	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.11.2	Standby Power Programs	PSPS - for sectionalization, etc.		2020	NA	NA	NA	25.04	58.09	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.11.3	Generator Assistance Program	PSPS - for sectionalization, etc.		2020	NA	388.94	NA	251.42	601.79	NA	WMPMA	Exceeds	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.17.1	Traditional Hardening - Distribution overhead system hardening	Equipment failure	Other contact with	2009	NA	8.11	NA	13.14	18.14	2019 GRC	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.2.1	Overhead transmission fire hardening (Transmission)	Equipment failure	Other contact with	2009	NA	NA	NA	30.01	NA	NA	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.2.2	Underground transmission fire hardening (Transmission)	Other contact with	Equipment failure	2009	NA	NA	NA	10.43	NA	NA	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.2.3	Overhead transmission fire hardening (Distribution Underbuilt)	Equipment failure	Other contact with	2009	NA	NA	NA	14.44	NA	2019 GRC	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.3	CNF MSUP Powerline Replacement Program (Transmission)	Equipment failure	Other contact with	2009	NA	NA	NA	NA	72.93	NA	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.3	CNF (Distributon Underground)	Other contact with	Equipment failure	2009	NA	NA	NA	NA	21.63	2019 GRC	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.17.3	CNF(Distribution Overhead)	Equipment failure	Other contact with	2009	NA	NA	NA	NA	22.73	2019 GRC	NA	Exceeds	G.O. 95		
Grid hardening	Grid Design & System Hardening	7.3.3.18.1	Distribution Communications reliability improvements (LTE)			2010	NA	NA	NA	NA	NA	2019 GRC	NA	NA	P.U. Code § 451		
Grid hardening	Grid Design & System Hardening	7.3.3.18.2	Lightning Arrestors Removal & Replacement	Equipment failure		2020	NA	NA	NA	35.44	176.05	NA	WMPMA	Exceeds	G.O. 95		
Grid hardening	Asset Management & Inspections	7.3.3.18.3	Avian Mitigation	Other contact with		2022	NA	0.68	NA	38.64	55.77	NA	WMPMA	NA	NA		
Asset inspection	Asset Management & Inspections	7.3.4.1	Detailed inspections of distribution electric lines and equipment	Equipment failure		1997	NA	8.56	NA	87.59	68.39	2019 GRC	NA	Meets	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.2	Detailed inspections of transmission electric lines and equipment	Equipment failure		1997	NA	NA	NA	13.3	28.4	NA	NA	Meets	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.3	Improvement of inspections			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Asset inspection	Asset Management & Inspections	7.3.4.4	Infrared inspections of distribution electric lines and equipment	Equipment failure		2020	NA	NA	NA	9.49	17.17	NA	WMPMA	Exceeds	P.U. Code § 451		
Asset inspection	Asset Management & Inspections	7.3.4.5	Infrared inspections of transmission electric lines and equipment	Equipment failure		2010	NA	NA	NA	106.13	239.22	NA	NA	Meets	P.U. Code § 451		
Asset inspection	Asset Management & Inspections	7.3.4.6	Intrusive pole inspections	Equipment failure		1997	NA	3	NA	37.88	121.13	2019 GRC	NA	Meets	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.7	LiDAR inspections of distribution electric lines and equipment			2011	NA	NA	NA	NA	NA	2019 GRC	NA	Exceeds	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.8	LiDAR inspections of transmission electric lines and equipment			2009	NA	NA	NA	NA	NA	NA	NA	Exceeds	P.U. Code § 451		
Asset inspection	Asset Management & Inspections	7.3.4.9.	Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations														
Asset inspection	Asset Management & Inspections	7.3.4.10.	Other discretionary inspection of transmission electric lines and														
Asset inspection	Asset Management & Inspections	7.3.4.11.	Patrol inspections of distribution electric lines and equipment	Equipment failure		1997	NA	NA	NA	173.9	255.2	2019 GRC	NA	Meets	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.12.	Patrol inspections of transmission electric lines and equipment	Equipment failure		1997	NA	NA	NA	31.2	110.65	NA	NA	Meets	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.13.	Pole loading assessment program to determine safety factor			2011	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Asset inspection	Asset Management & Inspections	7.3.4.14.	Quality assurance / quality control of inspections			1997	NA	0.04	NA	55.68	81	NA	NA	NA	NA		
Asset inspection	Asset Management & Inspections	7.3.4.15.	Substation inspections			1997	NA	NA	NA	NA	NA	2019 GRC	NA	NA	NA		
Asset inspection	Asset Management & Inspections	7.3.4.9.1	HFTD Tier 3 Distribution Pole Inspections	Equipment failure		2009	NA	NA	NA	NA	NA	2019 GRC	NA	Exceeds	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.9.2	Drone assessments of distribution infrastructure	Equipment failure		2019	NA	NA	NA	39.07	52.13	NA	WMPMA	Exceeds	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.9.3	Circuit ownership	Equipment failure		2019	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	G.O. 95		Program ended. Costs
Asset inspection	Asset Management & Inspections	7.3.4.10.1	Drone assessments of transmission infrastructure	Equipment failure		2020	NA	NA	NA	12.14	153.32	NA	NA	Exceeds	G.O. 95		
Asset inspection	Asset Management & Inspections	7.3.4.10.2	Additional Transmission Aerial 69kV Tier 3 Visual Inspection	Equipment failure		2010	NA	NA	NA	NA	50.54	NA	NA	Exceeds	G.O. 95		

Actual: 2019–2021; Projected: 2022–2023

WMP Initiative #	2019 CAPEX ($ thousands)		2019 OPEX ($ thousands)		2019 Line miles treated		2019 Alternative units (if used)	2020 CAPEX ($ thousands)		2020 OPEX ($ thousands)		2020 Line miles treated		2020 Alternative units (if used)	2021 CAPEX ($ thousands)		2021 OPEX ($ thousands)		2021 Line miles treated		2021 Alternative units (if used)	2022 CAPEX ($ thousands)		2022 OPEX ($ thousands)		2022 Line miles to be treated		2022 Alternative units (if used)	2023 CAPEX ($ thousands)		2023 OPEX ($ thousands)		2023 Line miles to be treated		2023 Alternative units (if used)
	Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD	
7.3.3.8.2	188	169	-	-	-	-	-	3,542	2,964	371	108	-	-	4	12,997	12,550	1,378	412	-	-	-	13,309	2,124	1,607	482		-	4	2,584	-	1,607	482	-	-	2
7.3.3.11.1	-	-	-	-	-	-	NA	-	-	5,076	4,813	-	-	1,420	-	-	7,893	7,875	-	-	2,310	-	-	10,400	10,400		-	3,000	-	-	10,400	10,400	-	-	2,000
7.3.3.11.2	-	-	592	592	-	-	NA	-	-	1,754	1,754	-	-	75	-	-	8,934	8,934	-	-	355	-	-	10,350	10,350		-	412	-	-	10,350	10,350	-	-	300
7.3.3.11.3	-	-	-	-	-	-	65	-	-	761	761	-	-	1,274	-	-	744	740	-	-	735	-	-	1,828	1,828		-	1,250	-	-	1,828	1,828	-	-	1,250
7.3.3.17.1	113,424	113,415	2,162	2,162	-	123	-	136,811	136,800	3,446	3,446	-	###	-	94,372	94,350	2,596	2,595	-	100	-	16,312	15,810	178	173	-	5	-	5,479	5,311	55	53	-	-	1
7.3.3.17.2.1	-	-	-	-	-	7	-	-	-	-	-	-	###	-	-	-	-	-	-	7	-	-	-	-	-	-	18.5	-	-	-	-	-	-	-	-
7.3.3.17.2.2	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	5.5	-	-	-	-	-	-	-
7.3.3.17.2.3	2,982	2,982	-	-	-	10	-	5,033	5,033	-	-	-	###	-	5,469	5,469	-	-	-	3	-	4,273	4,273	-	-	-	7.6	-	11,767	11,767	-	-	-	-	12
7.3.3.17.3	-	-	-	-		25		-	-	-	-	-	###	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.3.17.3	30,559	30,559	-	-		8.7		37,982	37,982	-	-	-	###	-	5,653	5,653	-	-	-		-	618	618	-	-	-	-	-	237	237	-	-	-	-	-
7.3.3.17.3	37,237	37,237	-	-		26.4		46,282	46,282	-	-	-	###	-	6,888	6,888	-	-	-	7	-	753	753	1,900	1,900	-	-	-	289	289	2,807	2,807	-	-	-
7.3.3.18.1	8,099	8,099	-	-	-	-	NA	35,476	35,476	-	-	-	-	15	49,458	49,458	-	-	-	-	10	70,642	70,642	-	-	-	-	25	58,629	58,629	-	-	-	-	45
7.3.3.18.2	-	-	-	-	-	-	NA	19	19	-	-	-	-	-	2,030	2,030	-	-	-	-	1,789	2,877	2,877	-	-	-	-	1,848	2,426	2,426	-	-	-	-	1,848
7.3.3.18.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,081	2,925	-	-	-	-	-	890	845	-	-	-	-	570
7.3.4.1	9,028	3,421	567	364	-	-	16,329	8,536	3,235	179	115	-	-	17,977	9,378	4,576	1,464	714	-	-	22,354	6,899	3,093	1,155	518	-	-	18,177	6,244	2,799	236	106	-	-	11,769
7.3.4.2	437	437	-	-	-	-	37	860	860	-	-	-	-	2,679	337	337	-	-	-	-	1,957	576	576	-	-	-	-	2,087	1,496	1,496	-	-	-	-	2,715
7.3.4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.4.4	-	-	98	98	-	-	NA	-	-	175	175	-	-	13,077	-	-	146	146	-	-	17,068	-	-	175	175	-	-	12,000	-	-	175	175	-	-	12,000
7.3.4.5	-	-	-	-	-	-	112	-	-	-	-	-	-	110	-	-	-	-	-	-	6,239	-	-	-	-	-	-	6,154	-	-	-	-	-	-	6,565
7.3.4.6	615	529	1,249	1,201	-	-	19,729	581	500	884	387	-	-	14,450	1,906	782	803	330	-	-	8,721	1,402	26	24	0	-	-	350	1,269	23	4	0	-	-	68
7.3.4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,151	1,151	-		-	-	-	3,000	3,000	-	-	-	-	-	1,500	1,500	-	-	-
7.3.4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.4.9.																																			
7.3.4.10.																																			
7.3.4.11.	857	857	-	-	-	-	86,401	810	810	295	295	-	-	86,075	1,140	1,140	286	286	-	-	86,490	839	839	279	279	-	-	86,490	759	759	279	279	-	-	86,122
7.3.4.12.	-	-	-	-	-	-	116	-	-	-	-	-	-	114	-	-	-	-	-	-	6,423	-	-	-	-	-	-	6,312	-	-	-	-	-	-	7,024
7.3.4.13.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.4.14.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	11,822
7.3.4.15.	-	-	-	-	-	-	301	-	-	-	-	-	-	405	-	-	-	-	-	-	405	-	-	-	-	-	-	330	-	-	-	-	-	-	330
7.3.4.9.1	1,355	1,355	-	-	-	-	15,176	1,281	1,281	400	400	-	-	11,864	3,082	3,063	49	49	-	-	11,535	2,267	2,258	384	382	-	-	12,268	2,052	2,044	320	319	-	-	68
7.3.4.9.2	271	271	13,551	13,551	-	-	10,400	15,795	15,795	51,953	51,953	-	-	37,310	12,636	12,636	33,108	33,108	-	-	21,420	26,402	26,402	52,000	52,000	-	-	22,000	23,432	23,432	70,650	70,650	-	-	13,000
7.3.4.9.3	672	672	-	-	-	-	-	41	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.4.10.1	-	-	-	-	-	-	NA	-	-	-	-	-	-	2,679	-	-	-	-	-	-	1,028	-	-	-	-	-	-	500	-	-	-	-	-	-	500
7.3.4.10.2	-	-	-	-	-	-	27	-	-	-	-	-	-	21	-	-	-	-	-	-	1,652	-	-	-	-	-	-	1,625	-	-	-	-	-	-	1,792

Utility	SDG&E
Table No.	12
Date Modified	2022 02 14

Notes:
Risk-Spend-Efficiency (RSE) is defined as "An estimate of the cost-effectiveness of initiative, calculated by dividing the mitigation risk reduction benefit by the mitigation cost estimate based on the full set of risk reduction benefits estimated from the incurred costs."
CAPEX = Capital expenditure; OPEX = Operating expenditure.

Table 12: Mitigation initiative financials

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Metric type	WMP Table # / Category	WMP Initiative #	Initative activity	Primary driver targeted	Secondary driver targeted	Year initiated	Estimated RSE territory-wide	Estimated RSE in non-HFTD region	Estimated RSE in HFTD Zone 1	Estimated RSE in HFTD Tier 2	Estimated RSE in HFTD Tier 3	If existing: most recent proceeding that has reviewed program	If new: memorandum account	Current compliance status - In / exceeding compliance with regulations	Associated rule(s) - if multiple, separate by semi-colon - ";"	If spend not disaggregated by category, note spend category or mark general operations	Comments
Vegetation managem	Vegetation Management & Inspections	7.3.5.1.	Additional efforts to manage community and environmental impacts			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.2.	Detailed inspections and management practices for vegetation clearances around distribution	Contact with vegetatio		1998	NA	4.34	NA	100.57	126.95	2019 GRC	NA	Meets	P.U. Code § 451		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.3.	Detailed inspections and management practices for vegetation clearances around transmission			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.4.	Emergency response vegetation management due to red flag warning or other urgent weather conditions			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.5.	Fuel management (including all wood management) and management of "slash" from vegetation management	Contact with vegetatio		2019	NA	NA	NA	9.09	15.04	NA	WMPMA	Exceeds	P.U. Code § 451		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.6.	Improvement of inspections			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.7.	Remote sensing inspections of vegetation around distribution electric lines and equipment (LiDAR)			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.8.	Remote sensing inspections of vegetation around transmission electric lines and equipment (LiDAR)			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.9.	Other discretionary inspections of vegetation around distribution electric lines and equipment	Contact with vegetatio		2019	NA	NA	NA	87.78	139.1	2019 GRC	NA	Exceeds	P.U. Code § 451		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.10.	Other discretionary inspections of vegetation around transmission electric lines and equipment			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.11.	Patrol inspections of vegetation around distribution electric lines and equipment			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.12.	Patrol inspections of vegetation around transmission electric lines and equipment			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.13	Quality assurance / quality control of vegetation management			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.14	Recruiting and training of vegetation management personnel			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.15	Identification and remediation of "at-risk species"			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.16	Removal and remediation of trees with strike potential to electric lines and equipment			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation inspectio	Vegetation Management & Inspections	7.3.5.17	Substation inspection			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.18	Substation vegetation management			1998	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.19	Vegetation management system			2002	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vegetation managem	Vegetation Management & Inspections	7.3.5.20	Vegetation management to achieve clearances around electric lines and equipment	Other contact with		1998	NA	6.89	NA	57.76	78.18	2019 GRC	NA	Meets	P.U. Code § 451		
Vegetation managem	Vegetation Management & Inspections	7.3.5.21	Vegetation management activities post-fire			2022	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Grid Operations & Operating Protocols	7.3.6.1	Automatic recloser operations	Other contact with	Equipment failure	2008	NA	NA	NA	1093803	2002522	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Grid Operations & Operating Protocols	7.3.6.2	Protective equipment and device settings			2008	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Grid Operations & O	7.3.6.3.	Crew-accompanying ignition prevention and suppression resources and services	Equipment failure	Other contact with	2009	NA	0.3	NA	32.03	123.4	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Grid Operations & O	7.3.6.4.	Personnel work procedures and training in conditions of elevated fire risk	Equipment failure	Other contact with	2008	NA	NA	NA	118.3	135.33	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Grid Operations & O	7.3.6.5.	Protocols for PSPS re-energization	Other contact with	Equipment failure	2013	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Other	Grid Operations & O	7.3.6.6.	PSPS events and mitigation of PSPS impacts	Other contact with	Equipment failure	2013	NA	NA	NA	77.49	82.86	NA	NA	NA	NA		
Other	Grid Operations & O	7.3.6.7	Stationed and on-call ignition prevention and suppression resources and services			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Grid Operations & Operating Protocols	7.3.6.1.2	Sensitive/Fast Protection settings	Other contact with	Equipment failure	2015	NA	NA	NA	75399.51	155234.2	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Grid Operations & O	7.3.6.7.1	Aviation firefighting program	Equipment failure	Other contact with	2008	NA	NA	NA	54.11	61.21	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Data Governance	7.3.7.1.	Centralized repository for data			2019	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Other	Data Governance	7.3.7.2.	Collaborative research on utility ignition and/or wildfire			2012	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Data Governance	7.3.7.3.	Documentation and disclosure of wildfire-related data and algorithms			2020	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Other	Data Governance	7.3.7.4.	Tracking and analysis of risk event data			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Actual

WMP Initiative #	2019 CAPEX ($ thousands) Territory	2019 CAPEX ($ thousands) HFTD	2019 OPEX ($ thousands) Territory	2019 OPEX ($ thousands) HFTD	2019 Line miles treated Territory	2019 Line miles treated HFTD	2019 Alternative units (if used)	2020 CAPEX ($ thousands) Territory	2020 CAPEX ($ thousands) HFTD	2020 OPEX ($ thousands) Territory	2020 OPEX ($ thousands) HFTD	2020 Line miles treated Territory	2020 Line miles treated HFTD	2020 Alternative units (if used)	2021 CAPEX ($ thousands) Territory	2021 CAPEX ($ thousands) HFTD	2021 OPEX ($ thousands) Territory	2021 OPEX ($ thousands) HFTD	2021 Line miles treated Territory	2021 Line miles treated HFTD	2021 Alternative units (if used)
7.3.5.1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.2.	-	-	34,449	18,198	-	-	453,330	-	-	57,791	30,528	-	-	451,207	-	-	42,016	21,610	-	-	502,132
7.3.5.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.5.	-	-	5,093	5,093	-	-	511	-	-	5,805	5,805	-	-	324	-	-	4,350	4,350	-	-	463
7.3.5.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.7.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.8.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.9.	-	-	-	-	-	-	-	-	-	10,235	10,235	-	-	17,075	-	-	9,955	9,955	-	-	12,578
7.3.5.10.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.11.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.12.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.20	-	-	3,884	3,391	-	-	34,000	-	-	5,433	4,743	-	-	36,563	-	-	5,556	4,991	-	-	35,102
7.3.5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.2	-	-	1,790	1,790	-	-	-	-	-	2,588	2,588	-	-	-	-	-	3,071	3,071	-	-	-
7.3.6.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.4.	11	11	-	-	-	-	-	663	663	-	-	-	-	-	175	175	-	-	-	-	-
7.3.6.5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.7.1	-	-	5,166	5,166	-	-	-	7,092	7,092	6,766	6,766	-	-	-	13,461	13,461	6,850	6,850	-	-	-
7.3.7.1.	19	19	-	-	-	-	-	6,895	6,895	-	-	-	-	-	7,814	7,814	-	-	-	-	-
7.3.7.2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.7.3.	-	-	-	-	-	-	-	2,208	2,208	-	-	-	-	-	2,800	2,800	-	-	-	-	-
7.3.7.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Projected

WMP Initiative #	2022 CAPEX ($ thousands) Territory	2022 CAPEX ($ thousands) HFTD	2022 OPEX ($ thousands) Territory	2022 OPEX ($ thousands) HFTD	2022 Line miles to be treated Territory	2022 Line miles to be treated HFTD	2022 Alternative units (if used)	2023 CAPEX ($ thousands) Territory	2023 CAPEX ($ thousands) HFTD	2023 OPEX ($ thousands) Territory	2023 OPEX ($ thousands) HFTD	2023 Line miles to be treated Territory	2023 Line miles to be treated HFTD	2023 Alternative units (if used)
7.3.5.1.	-	-	1,000	1,000	-	-	-	-	-	1,000	1,000	-	-	-
7.3.5.2.	-	-	45,443	23,774	-	-	491,822	-	-	43,730	22,878	-	-	491,822
7.3.5.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.5.	-	-	6,377	6,377	-	-	500	-	-	6,777	6,777	-	-	500
7.3.5.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.7.	-	-	-	-	730	730	-	-	-	-	-	-	-	-
7.3.5.8.	-	-	-	-	-	-		-	-	-	-	-	-	-
7.3.5.9.	-	-	10,257	10,257	-	-	12,500	-	-	10,235	10,235	-	-	12,824
7.3.5.10.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.11.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.12.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.13	-	-	-	-	-	-	15%	-	-	-	-	-	-	15%
7.3.5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.16	-	-	-	-	-	-	106	-	-	-	-	-	-	106
7.3.5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.5.20	-	-	5,800	5,209	-	-	34,000	-	-	6,032	5,417	-	-	30,540
7.3.5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.2	-	-	3,230	3,230	-	-	-	-	-	3,230	3,230	-	-	-
7.3.6.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.6.7.1	23,672	23,672	9,325	9,325	-	-	-	4,803	4,803	10,563	10,563	-	-	-
7.3.7.1.	16,776	16,776	1,490	1,490	-	-	-	16,611	16,611	1,665	1,665	-	-	-
7.3.7.2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.7.3.	3,993	3,993	-	-	-	-	-	3,372	3,372	-	-	-	-	-
7.3.7.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Utility	SDG&E
Table No.	12
Date Modified	2022 02 14

Notes:
Risk-Spend-Efficiency (RSE) is defined as "An estimate of the cost-effectiveness of initiative, calculated by dividing the mitigation risk reduction benefit by the mitigation cost estimate based on the full set of risk reduction benefits estimated from the incurred costs."
CAPEX = Capital expenditure; OPEX = Operating expenditure.

Table 12: Mitigation initiative financials

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Metric type	WMP Table # / Category	WMP Initiative #	Initative activity	Primary driver targeted	Secondary driver targeted	Year initiated	Estimated RSE territory-wide	Estimated RSE in non-HFTD region	Estimated RSE in HFTD Zone 1	Estimated RSE in HFTD Tier 2	Estimated RSE in HFTD Tier 3	If existing: most recent proceeding that has reviewed program	If new: memorandum account	Current compliance status - In / exceeding compliance with regulations	Associated rule(s) - if multiple, separate by semi-colon - ";"	If spend not disaggregated by category, note spend category or mark general operations	Comments
Other	Data Governance	7.3.7.4.1	Ignition Management Program			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Data Governance	7.3.7.4.2	Reliability Database			2020	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Resource Allocation	7.3.8.1.	Allocation methodology development and application			2019	NA	NA	NA	NA	NA	2019 GRC	NA	Exceeds	P.U. Code § 451		
Other	Resource Allocation	7.3.8.2.	Risk reduction scenario development and analysis			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Resource Allocation	7.3.8.3.	Risk spend efficiency analysis not include PSPS			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Emergency Planning	7.3.9.1.	Adequate and trained workforce for service restoration			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Emergency Planning	7.3.9.2.	Community outreach, public awareness, and communications efforts			2013	NA	NA	NA	NA	NA	NA	WMPMA	NA	NA		
Other	Emergency Planning	7.3.9.3	Customer support in emergencies			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Emergency Planning	7.3.9.4.	Disaster and emergency preparedness plan			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Emergency Planning	7.3.9.5.	Preparedness and planning for service restoration			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Emergency Planning	7.3.9.6.	Protocols in place to learn from wildfire events			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Stakeholder Coopera	7.3.10.1	Community engagement			2013	NA	NA	NA	NA	NA	NA	WMPMA	Exceeds	P.U. Code § 451		
Other	Stakeholder Coopera	7.3.10.2	Cooperation and best practice sharing with agencies outside CA			2013	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Stakeholder Coopera	7.3.10.3	Cooperation with suppression agencies			2019	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Stakeholder Coopera	7.3.10.4	Forest service and fuel reduction cooperation and joint roadmap			2022	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Other	Stakeholder Coopera	7.3.10.1.1	PSPS Communicaiton Practices			2013	NA	NA	NA	NA	NA	2019 GRC	NA	Exceeds	P.U. Code § 451		

	Actual																				
	2019							2020							2021						
	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)
WMP Initiative #	Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD	
7.3.7.4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.7.4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.8.1.	-	-	369	369	-	-	-	-	-	3,718	3,718	-	-	-	-	-	5,299	5,299	-	-	-
7.3.8.2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.8.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.1.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,950	5,950	-	-	-	-	-
7.3.9.2.	217	217	4,727	4,727	-	-	-	2,405	2,405	12,214	12,214	-	-	-	2,981	2,981	12,907	12,907	-	-	-
7.3.9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.1	-	-	5	5	-	-	-	-	-	448	448	-	-	-	-	-	579	579	-	-	-
7.3.10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.1.1	743	743	3,840	3,840	-	-	-	4,474	4,474	8,313	8,313	-	-	-	5,186	5,186	10,208	10,208	-	-	-

	Projected														
	2022							2023							
	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles to be treated		Alternative units (if used)	CAPEX ($ thousands)		OPEX ($ thousands)		Line miles to be treated		Alternative units (if used)
WMP Initiative #	Territory	HFTD	Territory	HFTD	Territory	HFTD		Territory	HFTD	Territory	HFTD	Territory	HFTD	
7.3.7.4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.7.4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.8.1.	-	-	4,786	4,786	-	-	-	-	-	6,092	6,092	-	-	-
7.3.8.2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.8.3.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.1.	10,202	10,202	-	-	-	-	-	4,215	4,215	-	-	-	-	-
7.3.9.2.	8,848	8,848	15,170	15,170	-	-	-	21,157	21,157	15,843	15,843	-	-	-
7.3.9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.5.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.9.6.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.1	-	-	600	600	-	-	-	-	-	650	650	-	-	-
7.3.10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3.10.1.1	5,364	5,364	11,062	11,062	-	-	-	-	-	11,062	11,062	-	-	-