## SCE's 2020 Wildfire Mitigation Plan (WMP) Cumulative Summary of Changes

				Data Request
Change #	Section/Table #	Sub-Section/Cell	Description of Changes	Item Index

The following list of changes does not include minor edits made due to formatting changes and typographical, spelling, or grammatical errors.

## **Revision 3**

ĺ	1	4.1		Per Data Request from the Wildfire Safety Division (WSD), updated narrative to clarify	SCE-43900-E-788
			1	objectives for a) before next fire season, b) in the next year, c) in three years, and d) in ten	SCE-43900-E-789
			,	years.	

## **Revision 2**

1	2.1	2.1.1	Per Data Request from WSD, updated narrative to clarify leading/lagging indicators	SCE-43895-L-343
2	5.3.5		Per Data Request from WSD, changed number of removals to reflect 2019 recorded information	SCE-43895-I-415
3	5.3.5		Per Data Request from WSD, clarified LiDAR vegetation inspection around distribution electric lines and equipment	SCE-43895-I-393
4	5.3.5	5.3.5.8	Per Data Request from WSD, clarified LiDAR vegetation inspection around transmission electric lines and equipment	SCE-43895-I-393
5	Table 1	Row 1	Per Data Request from WSD, split row 1 information by Transmission and Distribution	SCE-43895-Y-274
6	Table 21-30	Columns C-E & G	Per Data Request from WSD, changed reported dollars to reflect thousands (\$'000s)	SCE-43895-Y-275

## **Revision 1**

1	Table of Contents		Combined table of contents for each chapter into a single Table of Contents	
2	1		Per Data Request from WSD, changed Table 1-1 to reflect the primary individuals responsible for each component of the WMP	SCE-43879-L -93
3	1		Changed SH-3 "WCCP Fire Resistant Poles" to "Fire Resistant Poles" in Table SCE 1-1	
4	3.1		Per Data Request from WSD, updated narrative to clarify information provided in Section 3.1 and Table 10	SCE-43879-D-61
5	4.3	4.3.3	Deleted duplicative sentence	
6	5.1		Per Data Request from WSD, added headers to identify and clarify SCE's response to the requested descriptions for A to D	SCE-43879-F -95
7	5.1	5.1.1 to 5.1.10	Per Data Request from WSD, added narrative and tables to provide additional description of wildfire mitigation strategy and activities correlated with time periods 1 to 4 under 5.1	SCE-43879-F -95
8	5.1	5.1.9	Changed number of employees trained to reflect updated information	
9	5.1		Per Data Request from WSD, added narrative to provide additional description on challenges associated with limited resources	SCE-43879-F -95

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10	5.1	5.1.11	Per Data Request from WSD, added narrative and table to provide additional description of new technologies and innovations	SCE-43879-F -95
11	5.1		Changed SH-3 "WCCP Fire Resistant Poles" to "Fire Resistant Poles" in Table SCE 5-1	
12	5.2	5.2.3	Spelled out "software as a service" for SaaS	
13	5.2.1		Per Data Request from WSD, added narrative to provide additional detail on the monitoring and quality assurance program for line/equipment inspections	SCE-43879-L -94
14	5.3.2		Added the word "awareness" in the Program Overview paragraph	
15	5.3.2		Clarified first sentence in the narrative for Situational Awareness Long-Term Strategy	
16	5.3.3	5.3.3.6.1	Added sentence to clarify 2020 goal	
17	5.3.3	5.3.3.6.2	Added "(SH-3)" to Deteriorated Pole Program and reference to 5.3.3.6.2	
18	5.3.4	5.3.4.2	Changed number of inspections completed to reflect updated information	
19	5.3.4	5.3.4.10	Updated narrative to reflect number of inspections completed	
20	5.3.5	5.3.5.5.1	Changed number of pole brushings to reflect updated information	
21	5.3.5	5.3.5.2 5.3.5.3	Changed narrative for clarification on vegetation management inventory	
22	5.3.5	5.3.5.8	Changed number of circuit miles performed by LiDAR to reflect updated information	
23	5.3.5	5.3.5.19	Updated narrative to clarify digital tools used for Vegetation Management	
24	5.3.6	5.3.6.5.6	Updated narrative to clarify social platform outreach	
25	5.3.6	5.3.6.7	Updated Table SCE 5-10 for De-Energization Notification Requirements	
26	5.3.8	5.3.8.1	Per Data Request from WSD, added table to narrative to provide additional description of activities correlated with the requested time frames	SCE-43879-F -95
27	5.3.8	5.3.8.2	Per Data Request from WSD, added table to narrative to provide additional description of activities correlated with the requested time frames	SCE-43879-F -95
28	5.3.8	5.3.8.3	Per Data Request from WSD, added table to narrative to provide additional description of activities correlated with the requested time frames	SCE-43879-F -95
29	5.3.8	5.3.8.4	Per Data Request from WSD, added table to narrative to provide additional description of activities correlated with the requested time frames	SCE-43879-F -95
30	5.3.9		Updated narrative to reflect number of employees trained to-date	
31	5.6.2	5.6.2.4	Added "Medical Facilities" to Hospitals	
32	5.3.10	5.3.10.4	Per Data Request from WSD, added narrative to provide examples of interactions and agreements with USFS	SCE-43879-E-63
33	Narrative Appendix	Appendix B, C, D	Inserted Excel Tables 1-31 as Appendix B. This effectively shifted previous Appendix B - WMP GIS Dashboard Descriptions to become Appendix C, and previous Appendix C - WMP GIS Dataset Descriptions to become Appendix D.	

				Data Request
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34	Tables	N/A	Added a cover page and change log. Following instruction from WSD, SCE has highlighted	
			cells in the "red-line" version with modified data in yellow and highlighted cells with new	
			data in green relative to the version submitted on February 7, 2020.	
35	All Tables	Various	Updated print areas to repeat header rows for all tables and fixed issues related to cells	
			with text appearing to be cutoff	
36	Table 1	15:122	Updated comments column	
37	Table 1	J44:J46	Updated comments column	
38	Table 4	C3:F60	Inserted new columns "2019 actual performance", "2019 goal", and "Percentage of goal	
			reached" for all metrics on Table 4	
39	Table 10	H5 & H6	Per Data Request from WSD, corrected units column description for Row 4 "95th	SCE-43879-D-61
			percentile wind conditions" and Row 5 "99th percentile wind conditions".	
			Note: SCE's FPI calculation capability was initiated in late 2018 and was not implemented	
			across SCE's HFRA until March 2019, and therefore the information in Table 10 for 2019	
			uses FPI data from March to December 2019	
40	Table 22	H3:K8 & Q3:Q8	Per Data Request from WSD, updated Table 22 "Ignition probability drivers targeted",	SCE-43879-D-62
		H40:K74 &	"Risk reduction", "Risk spend efficiency", and "Other risk drivers addressed" columns for	
		Q40:Q74	all time periods to remove references to other tables/initiatives	
41	Table 22	G6 & G7	Corrected "1. Advanced weather monitoring and weather stations (SA-1)" "Spend/	
	- II 00		treated line mile" calculation for 2021 and 2022	
42	Table 22	C20 & E20 & G20	Corrected "2.2. Continuous monitoring sensors: Early Fault Detection (EFD) evaluation (AT	
			7)" 2020-2022 "line miles to be treated" sum calculation and updated the "spend/ treated	
43	Table 22	F26 & G26	line mile" column	
43	Table 22	F20 & G20	Corrected "2.3. Continuous monitoring sensors: transmission open phase detection (SH-8)" 2020-2022 plan total "Total per initiative spend" sum calculation and updated the	
			"spend/ treated line mile" column	
44	Table 22	C44 & E44 & G44	1 '	
77	Table 22	C44 & L44 & O44	program (SA-5)" 2020-2022 plan total "Total per initiative spend" sum calculation and	
			updated the "spend/ treated line mile" column	
45	Table 22	C80 & D80	Corrected "7. Develop Asset & Reliability & Risk Analytics Capability (RA-1, SA-4)" 2020-	
.5	14516 22	000 0 200	2022 "total per initiative spend" sum calculation	
46	Table 23	G5	Corrected "1. Capacitor maintenance and replacement program" 2020 "Spend/ treated	
.0	14516 25		line mile" calculation	
47	Table 23	F8	Corrected "1. Capacitor maintenance and replacement program" 2020-2022 plan total	
			"Line miles to be treated" calculation	
48	Table 23	F20	Corrected "2.2. Circuit breaker maintenance and installation to de-energize lines upon	
			detecting a fault: alternative technology evaluations - meter alarm down energized	
			conductor (MADEC)" 2020-2022 "line miles to be treated" sum calculation	
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49	Table 23	J63	Per Data Request from WSD, updated the RSE for "3.1. Covered conductor installation: covered conductor (SH-1)" 2019 plan row based off updated scope	SCE-43879-G-68
50	Table 23	H81:K86	Updated "4. Covered conductor maintenance" "Ignition probability drivers targeted", "Risk reduction", "Risk-spend efficiency", and "Other risk drivers addressed" columns to be consistent with comment in comments column	
51	Table 23	H87:K92	Updated "5. Crossarm maintenance, repair, and replacement" "Ignition probability drivers targeted", "Risk reduction", "Risk-spend efficiency", "Other risk drivers addressed", and "Comments" columns to remove references to other tables/initiatives	
52	Table 23	G95:G97	Corrected "6.1. Distribution pole replacement and reinforcement, including with composite poles: composite poles and crossarms (SH-3)" 2020, 2021, & 2022 "Spend/treated line mile" calculations	
53	Table 23	H119:K122	Updated "8.1. Grid topology improvements to mitigate or reduce PSPS events: PSPS driven grid hardening work (SH-7)" "Ignition probability drivers targeted", "Risk reduction", "Risk-spend efficiency", "Other risk drivers addressed", and "Comments" columns to remove references to other tables/initiatives	
54	Table 23	J129	Per Data Request from WSD, updated the RSE for "9. Installation of system automation equipment: installation of system automatic reclosers settings update (SH-5)" 2019 plan row based off updated scope	SCE-43879-G-68
55	Table 23	F134 & G134	Corrected "9. Installation of system automation equipment: installation of system automation equipment - remote controlled automatic reclosers settings update (SH-5)" 2020-2022 "line miles to be treated" sum calculation and updated the "spend/ treated line mile" column	
56	Table 23	H153:K164 & Q153:Q164	Updated "12.1. Other corrective action: distribution remediations (SH-12.1)" and "12.2. Other corrective action: transmission remediations (SH-12.2)" "Ignition probability drivers targeted", "Risk reduction", "Risk-spend efficiency", "Other risk drivers addressed", and "Comments" columns to remove references to other tables/initiatives	
57	Table 23	F155:G158	Corrected "12.1. Other corrective action: distribution remediations (SH-12.1)" number of notifications ("line miles to be treated" column) and the "spend/ treated line mile" column for 2020-2022  Note: Added in remediations that were identified in 2019 that will be remediated in 2020-2022 based on the remediation prioritization schedule	
58	Table 24	F11 & G11 F14 & G14	Corrected 2020 number of inspections for "2. Detailed inspections of Transmission electric lines and equipment" and updated the "spend/ treated line mile" column. Also updated the 2020-2022 summary calculations accordingly.	
59	Table 24	I27:J32	Updated "5. Infrared inspections of transmission electric lines and equipment: infrared inspection, corona scanning, and high definition imagery of energized overhead transmission facilities and equipment (IN-4)" baseline transmission risk, and therefore risk reduction & RSE changed	

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60	Table 24	F80 & G80	Corrected "9.2.2. Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations: UAS operations training (OP-3)" 2020-2022 "line miles to be treated" sum calculation and updated the	
61	Table 24	I81:J86	"spend/ treated line mile" column  Updated "10.1. Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations: transmission risk-informed inspections in HFRA (IN-1.2)" baseline transmission risk, and therefore risk	
62	Table 24	F83 & G83 F86 & G86	reduction & RSE changed  Corrected 2020 number of inspections for "10.1. Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations: transmission risk-informed inspections in HFRA (IN-1.2)" and updated the "spend/ treated line mile" column. Also updated the 2020-2022 summary calculations accordingly.	
63	Table 24	I87:J88	Updated "10.2. Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations: aerial inspections - transmission (IN-6.2)" baseline transmission risk, and therefore risk reduction & RSE changed	
64	Table 24	I89:J92	Updated "10.2. Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations: aerial inspections - transmission (IN-6.2)" baseline transmission risk, and therefore risk reduction & RSE changed for 2020-2022	
65	Table 24	F118	Corrected 2019 actual number of structures for "14. Quality assurance / quality control of inspections: Quality Oversight / Quality Control"	
66	Table 25	F20 & G20	Corrected "3. Detailed inspections of vegetation around transmission electric lines and equipment" "line miles to be treated" sum calculation and updated the "spend/ treated line mile" column	
67	Table 25	F33:G34	Corrected 2019 plan and 2019 actual number of poles brushed and the "spend/ treated line mile" column	
68	Table 25	J33 & J34	Updated the RSE for "5.1. Fuel management and reduction of "slash" from vegetation management activities: expanded pole brushing (VM-2)" 2019 plan and 2019 actual rows based off updated scope	
69	Table 25	F44 & G44	Corrected "5.2. Fuel management and reduction of "slash" from vegetation management activities: expanded clearances for legacy facilities (VM-3)" 2020-2022 "line miles to be treated" sum calculation and updated the "spend/ treated line mile" column	
70	Table 25	F111 & G111	Corrected 2019 plan number of Hazard Tree Assessments and updated the "spend/ treated line mile" column	
71	Table 25	I112 & J112	Updated the Risk Reduction and RSE for "16.1. Removal and remediation of trees with strike potential to electric lines and equipment: hazard tree (VM-1)" 2019 actual row based off updated scope	

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72	Table 26	J33:J38	Updated the RSE for "5. PSPS events and mitigation of PSPS impacts" 2019 plan through	
			the 2020-2022 plan total rows based off updated spend	
73	Table 26	F68	Corrected "5.5. PSPS events and mitigation of PSPS impacts: independent living centers	
			partnership (PSPS-6)" 2020-2022 total plan row for the "Line miles to be treated" to align	
			with 2020-2022 "Line miles to be treated"	
74	Table 27	C3:E8	Per Data Request from WSD, provided total spend (including breakdown between capital	SCE-43879-K-58
			and O&M) for 2019 plan - 2020-2022 plan total for "1. Centralized repository for data"	
			and updated the comments column accordingly	
75	Table 29	C3:Q8	Combined Row 1 "1. Adequate and trained workforce for service restoration (DEP-2)"	
			with Row 8 "8. Adequate and trained workforce for service restoration" and removed the	
			old Row 8 as it was duplicative	
76	Table 31a	D4:L24	Updated ignition data on Table 31a based on updated risk analysis discussed in Tables 22-	
			25 above	
77	Table 31a	All	Per Data Request from WSD, updated Tables 31a cell formatting so that "-", which is the	SCE-43879-G-67
			equivalent of a zero, shows as "0"	
78	Table 31b	All	Per Data Request from WSD, updated Tables 31b cell formatting so that "-", which is the	SCE-43879-G-67
			equivalent of a zero, shows as "0"	