SDG&E 2022 WMP Discovery Log

Question Count	Party Name	DR Set #	Data Request	Question No.	Question ID	Question Text	Requestor	Date Rec'd	Final Due Date	Date Sent	Number of Atchs	NDA Required	WMP Section	Category	Sub Category	
1	CalPA	2022-05	CalPA-2022-05	1	CalPA-2022-05.1	Provide an Excel table listing (as rows) all corrective notifications on electric distribution circuits that were open as of February 1, 2022, and located in HFTD areas. The table should include the following information in separate columns. a. Notification identification (ID) number b. Name of the associated circuit c. ID number of the associated circuit d. HFTD tier e. Geographic latitude in decimal degrees, truncated to seven decimal places f. Geographic longitude in decimal degrees, truncated to seven decimal places g. Date the notification was originally opened h. Priority of the original notification i. Due date of the original notification j. Date(s) the notification was reinspected or modified, if any k. Priority of the notification after it was reinspected or modified, if applicable l. Due date of the notification after it was reinspected or modified, if applicable	Aaron Louie	2/16/2022	2/22/2022	2/22/2022	1	No	N/A	N/A	N/A	N/A
2	CalPA	2022-05	CalPA-2022-05	2	CalPA-2022-05.2	Provide an Excel table listing (as rows) all corrective notifications on electric transmission circuits that were open as of February 1, 2022, and located in HFTD areas. The table should include the following information in separate columns. a. Notification identification (ID) number b. Name of the associated circuit c. ID number of the associated circuit d. HFTD tier e. Geographic latitude in decimal degrees, truncated to seven decimal places f. Geographic longitude in decimal degrees, truncated to seven decimal places g. Date the notification was originally opened h. Priority of the original notification i. Due date of the original notification j. Date(s) the notification was reinspected or modified, if any k. Priority of the notification after it was reinspected or modified, if applicable l. Due date of the notification after it was reinspected or modified, if applicable	Aaron Louie	2/16/2022	2/22/2022	2/22/2022	1	No	N/A	N/A	N/A	N/A
3	CalPA	2022-05	CalPA-2022-05	3	CalPA-2022-05.3	Provide an Excel table listing (as rows) all corrective notifications on electric substations that were open as of February 1, 2022, and located in HFTD areas. The table should include the following information in separate columns. a. Notification identification (ID) number b. Name of the associated substation c. ID number of the associated substation d. HFTD tier e. Geographic latitude in decimal degrees, truncated to seven decimal places f. Geographic longitude in decimal degrees, truncated to seven decimal places g. Date the notification was originally opened h. Priority of the original notification i. Due date of the original notification j. Date(s) the notification was reinspected or modified, if any k. Priority of the notification after it was reinspected or modified, if applicable l. Due date of the notification after it was reinspected or modified, if applicable	Aaron Louie	2/16/2022	2/22/2022	2/22/2022	1	No	N/A	N/A	N/A	N/A
4	CalPA	2022-06	CalPA-2022-06	1	CalPA-2022-06.1	On page (p.) 20 of SDG&E's 2022 WMP, SDG&E states that, "Ability to underground certain areas can be heavily contingent upon effective alignment with telecommunication companies. Ongoing discussions with stakeholders are important to continue to pave the path for future mitigation efforts." With that context: a.) Please provide and explain SDG&E's current policies or procedures when engaging with telecommunication companies to achieve	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.1.3	4.1.3 Grid Design and System Hardening Page 20
5	CalPA	2022-06	CalPA-2022-06	2	CalPA-2022-06.2	On page (p.) 20 of SDG&E's 2022 WMP, SDG&E states that, "Undergrounding can be completed at shallower depths." Regarding this statement: a.) What measurement or range of depths is "shallower depths"?	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.1.3	4.1.3 Grid Design and System Hardening Page 20
6	CalPA	2022-06	CalPA-2022-06	3	CalPA-2022-06.3	Page (p.) 211 of SDG&E's 2022 WMP provides a grid hardening flowchart showing, "…how WiNGS-Planning is used to inform scoping, selection, and implementation of underground and covered conductor projects." Explain, in detail, SDG&E's time frame and process in which you input finished construction/as-built drawings for projects into your GIS database.	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3	7.3.3 Grid Design and System Hardening Page 210
7	CalPA	2022-06	CalPA-2022-06	4	CalPA-2022-06.4	In section 7.3.3 of SDG&E's 2022 WMP titled "Grid Design and System Hardening", risk reduction estimations are given for several mitigation initiatives. Explain why SDG&E utilizes different risk scoring formats for their mitigation initiatives in section 7.3.3 of its 2022 WMP update. For example, for the SCADA Capacitors Program, SDG&E uses "Average Ignition Rate" while in the Covered Conductor Program, SDG&E uses "Ignition Rate."	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3	7.3.3 Grid Design and System Hardening Page 210
8	CalPA	2022-06	CalPA-2022-06	5	CalPA-2022-06.5	Page (p.) 214 of SDG&E's 2022 WMP states "The Covered Conductor Program has the potential to raise the threshold for PSPS events to higher wind speeds compared to bare conductor hardening; however, as of the end of 2021 the threshold for PSPS events has not been raised on any circuits with covered conductor installed as there have not yet been any circuit segments fully hardened with covered conductor." Please explain why SDG&E had not completed covered conductor installations on any full circuit segments by end of 2021.	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.3	7.3.3.3 Covered conductor installation Page 213
9	CalPA	2022-06	CalPA-2022-06	6	CalPA-2022-06.6	On page (p.) 214 of SDG&E's 2022 WMP, Table 7-6: Risk Reduction Estimation for Covered Conductors SDG&E reports Ignition Rates for Tier 3 and Tier 2 of 2.69% and 3.29% respectively. On p. 217, Table 7-7: Risk Reduction for the Expulsion Fuse Replacement Program, SDG&E reports an average Ignition Rate of 0.11% for both Tier 3 and Tier 2. a) Please explain why SDG&E uses different ignition rates for covered conductor and for fuse mitigation in its 2022 WMP update. b) Explain the meaning of the aforementioned Tier 3 ignition rate of 2.69% noted on p. 214. c) Explain the meaning of the aforementioned Tier 2 ignition rate of 3.29% noted on p. 214. d) Explain the meaning of the aforementioned ignition rate of 0.11% noted on p. 21	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.3	7.3.3.3 Covered conductor installation Page 213

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10	CalPA	2022-06	CalPA-2022-06	7	CalPA-2022-06.7	Page (p.) 215 of SDG&E's 2022 WMP states, "The Covered Conductor Program meet its targets for 2021 and has set a target of 60 miles for 2022." In reference to this statement: a.) Explain why SDG&E has set a target of 60 miles of covered conductor installation in 2022 when it has only completed 21 miles in the previous two years of 2020 and 202 b.) How will SDG&E increase its rate of covered conductor installation in 2022 to meet its target of 60 miles? Please identify specific circumstances or programmatic changes that make this target feasible	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.3	7.3.3.3 Covered conductor installation Page 213
11	CalPA	2022-06	CalPA-2022-06	8	CalPA-2022-06.8	Section 7.3.3.16 of SDG&E's 2022 WMP ("Undergrounding of electric lines and/or equipment") lists progress on the initiative including, "Technology Alignment" and "Business Effectiveness": a.) Explain the "new trench method"4 SDG&E employed for its undergrounding efforts.	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.16	7.3.3.16 Undergrounding of electric lines and/or equipment Page 230
12	CalPA	2022-06	CalPA-2022-06	9	CalPA-2022-06.9	Regarding Section 7.3.3.16 of SDG&E's 2022 WMP ("Undergrounding of electric lines and/or equipment"): a.) Provide a list of SDG&E's internal teams that are involved in its undergrounding effort. b.) Provide a list of external agencies or partners that SDG&E is collaborating with for its undergrounding effort	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.16	7.3.3.16 Undergrounding of electric lines and/or equipment Page 230
13	CalPA	2022-06	CalPA-2022-06	10	CalPA-2022-06.10	In section 4.4.2.3 of SDG&E's 2022 WMP titled "Impact of Overhead Distribution Hardening at Reducing Overhead Faults," SDG&E provides a graph in section 6 titled, "Faults By Cause Type" that highlights events caused by certain faults before and after hardening efforts. SDG&E states: "On average, the unhardened system saw an average of 13.50 risk events per 100 miles per operating year while the hardened system saw an average of 7.49 risk events per 100 miles per operating year. This represents a 45 percent reduction in risk in hardened system areas." (a) Explain why SDG&E uses "per 100 miles per operating year" figures in section 4.4.2.3 of its 2022 WMP.	Aaron Louie	2/18/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.3	4.4.2.3 Impact of Overhead Distribution Hardening at Reducing Overhead Faults Page 58
14	MGRA	2022-02	MGRA-2022-02	1	MGRA-2022-02.1	Please provide copies of all received data requests and responses for all intervenors other than MGRA that are not already posted on SDG&E's website.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022	1	No	N/A	N/A	N/A	N/A
15	MGRA	2022-02	MGRA-2022-02	2	MGRA-2022-02.2	Please provide a list of the stations upgraded to provide 30 second data.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
16	MGRA	2022-02	MGRA-2022-02	3	MGRA-2022-02.3	Is the 30 second data available to the public or to intervenors, and if so how is it accessed?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
17	MGRA	2022-02	MGRA-2022-02	4	MGRA-2022-02.4	How long is the 30 second data generally retained? Does SDG&E retain 30 second data for major windstorms?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
18	MGRA	2022-02	MGRA-2022-02	5	MGRA-2022-02.5	Provide a list of the weather stations which currently implement AI forecasting.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
19	MGRA	2022-02	MGRA-2022-02	6	MGRA-2022-02.6	Please provide data or analysis covering 2021 Santa Ana weather events quantifying the AI prediction error for all stations for which the system has been deployed.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
20	MGRA	2022-02	MGRA-2022-02	7	MGRA-2022-02.7	On page 90, SDG&E states that "To estimate weather conditions at the asset location, such as wind speed, methods such as closest proximity, linear interpolation, and manual mappings by Meteorology were explored." Please provide the results of this study.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.1	4.5.1.1 PoI Model Page 86
21	MGRA	2022-02	MGRA-2022-02	8	MGRA-2022-02.8	Please provide the areas mapped to each weather station using the optimal method determined by SDG&E in GIS polygon format.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022	1	No	N/A	N/A	N/A	N/A
22	MGRA	2022-02	MGRA-2022-02	9	MGRA-2022-02.9	Regarding satellite fire alerts received from the SDDC, what is the false positive rate?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
23	MGRA	2022-02	MGRA-2022-02	10	MGRA-2022-02.10	Has the AI smoke detection algorithm used by SDG&E webcams ever detected fires prior to the satellite alert? If so, provide a list of these events.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
24	MGRA	2022-02	MGRA-2022-02	11	MGRA-2022-02.11	Please provide a list of all wildfires detected in 2020 and 2021 by the satellite/AI smoke method, including 1) satellite detection time 2) cam AI detection confirmation time 3) location 4) fire name if applicable 5) latency (from actual fire start time) if known	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
25	MGRA	2022-02	MGRA-2022-02	12	MGRA-2022-02.12	Provide a list of all existing particulate monitors and links to their public data.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
26	MGRA	2022-02	MGRA-2022-02	13	MGRA-2022-02.13	Provide a list of all weather stations for which deployment of AQI particulate sensors is planned in 2022.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
27	MGRA	2022-02	MGRA-2022-02	14	MGRA-2022-02.14	Does SDG&E have partners with whom it consults regarding siting, deployment, and analysis of its particulate monitors, and if so identify them. SDG&E in its description of its research program (Section 4.4.2) describes its findings regarding the effect of various mitigations.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2	4.4.2 Research Findings Page 53
28	MGRA	2022-02	MGRA-2022-02	15	MGRA-2022-02.15	Regarding SDG&E's study of the effectiveness of recloser protocols (Section 4.4.2.2), SDG&E studied the effect of disabling reclosing on ignition. How did SDG&E adjust the results from this study to adjust for the effect of PSPS events, which eliminate fault events.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.2	4.4.2.2 Understanding the Effectiveness of Recloser Protocols Page 56
29	MGRA	2022-02	MGRA-2022-02	16	MGRA-2022-02.16	Does the study mentioned in the previous question accurately predict what fraction of ignitions would be avoided in the absence of PSPS?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
30	MGRA	2022-02	MGRA-2022-02	17	MGRA-2022-02.17	If the answer to the previous question is no, what would be the result if SDG&E were to perform the calculation assuming absence of PSPS?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
31	MGRA	2022-02	MGRA-2022-02	18	MGRA-2022-02.18	SDG&E also studies the effect of distribution hardening on overhead faults (Section 4.4.2.3), and observes a reduction from 13.5 events per 100 miles to 7.5 events per 100 miles correlated with hardening. Were PSPS periods removed from this sample, or was the bias from PSPS events	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.3	4.4.2.3 Impact of Overhead Distribution Hardening at Reducing Overhead Faults
32	MGRA	2022-02	MGRA-2022-02	19	MGRA-2022-02.19	If the hardening study mentioned in the previous question did not account for biases introduced by PSPS, please recalculate the result with PSPS periods removed from the analysis.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.3	4.4.2.3 Impact of Overhead Distribution Hardening at Reducing Overhead Faults
33	MGRA	2022-02	MGRA-2022-02	20	MGRA-2022-02.20	In Section 4.4.2.5, SDG&E presents the results of an analysis of the effect of sensitive relay settings on ignition rates during red flag warning (RFW) events. RFW periods often result in PSPS, which removes high risk events from the sample. Describe whether SDG&E's analysis accounts for the effect of PSPS and if so how	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.5	4.4.2.5 Impact of Sensitive Relay Settings at Reducing Ignitions from Risk Events

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34	MGRA	2022-02	MGRA-2022-02	21	MGRA-2022-02.21	If the analysis in the previous question does not account for potential bias introduced by PSPS, please provide an alternative "System Analysis" in which all areas subject to PSPS during the study period are removed from the analysis.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.5	4.4.2.5 Impact of Sensitive Relay Settings at Reducing Ignitions from Risk Events
35	MGRA	2022-02	MGRA-2022-02	22	MGRA-2022-02.22	Regarding the Sensitivity Analysis Results presented in Table 4-15, please provide a breakdown of Total Outages by tree species for the 17.5 and 25 trim distances.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.4.2.9	4.4.2.9 Impact of the Enhanced Vegetation Management Program Page
36	MGRA	2022-02	MGRA-2022-02	23	MGRA-2022-02.23	Regarding lab tests of covered conductors, what "additional studies will be performed to assess the effectiveness of covered conductor for various modes of failure" that have not been performed yet?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
37	MGRA	2022-02	MGRA-2022-02	24	MGRA-2022-02.24	Provide additional details and documentation of the conductor failure model, including the estimation of the feature importance for the variables included in the analysis.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
38	MGRA	2022-02	MGRA-2022-02	25	MGRA-2022-02.25	Provide additional detail and documentation regarding the Vegetation PoI/PoF models. Were wind gusts included in the Vegetation PoI/PoF model, and if not why not?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
39	MGRA	2022-02	MGRA-2022-02	26	MGRA-2022-02.26	On p. 96, the WMP states that: "Tree-related outage during all adverse weather conditions were considered during model development, but the final VRI rating for a particular polygon was not filtered based on weather type. This may result in anoverprediction of outage risk during a weather event." Should "overprediction"instead be "underprediction"? If the quote as stated is	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.2	4.5.1.2 Vegetation Risk Index Page 95
40	MGRA	2022-02	MGRA-2022-02	27	MGRA-2022-02.27	Why was a cubic polynomial chosen to represent the wind gust response function (p. 95)?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1	4.5.1 Additional Models for Ignition Probability, Wildfire, and PSPS Ris Page
41	MGRA	2022-02	MGRA-2022-02	28	MGRA-2022-02.28	For the overhead conductor failure model, SDG&E's WMP states that "Areas with higher wind speeds influence this failure rate and would be further modified by the location of the asset in the models identified wind corridors" (p. 106). How were these wind corridors identified and quantified?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.3	4.5.1.3 Wildfire Risk Reduction Model Page 97
42	MGRA	2022-02	MGRA-2022-02	29	MGRA-2022-02.29	What is the methodology for applying the wind speed failure rate modification?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
43	MGRA	2022-02	MGRA-2022-02	30	MGRA-2022-02.30	Please provide any GIS data for identified wind corridors.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022	1	No	N/A	N/A	N/A	N/A
44	MGRA	2022-02	MGRA-2022-02	31	MGRA-2022-02.31	Is SDG&E's wildfire consequence model still using an 8 hour fire spread periodfor Technosylva simulations?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
45	MGRA	2022-02	MGRA-2022-02	32	MGRA-2022-02.32	What is the definition of the Normalized Difference Vegetation Index (NDVI)?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
46	MGRA	2022-02	MGRA-2022-02	33	MGRA-2022-02.33	Do the "urban encroachment" algorithms (p. 112) incorporate the variable of building age? If not, is there any plan to include this variable?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4.5	4.5 Model and Metric Calculation Methodologies Page 85	4.5.1.4	4.5.1.4 Wildfire Risk Reduction Model – Operations Page 108
47	MGRA	2022-02	MGRA-2022-02	34	MGRA-2022-02.34	On page 128 of the WMP, SDG&E states that: "A sensitivity analysis is employed to validate the RSE and mitigation sections of the WiNGS-Planning model. In this analysis, constants, including cost per mile estimates and RSE thresholds, are adjusted to see how sensitive the mitigation recommendations are to different size variable adjustments." Please	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4.5	4.5 Model and Metric Calculation Methodologies Page 85	4.5.1.7	4.5.1.7 Wildfire Next Generation System-Planning Page 120
48	MGRA	2022-02	MGRA-2022-02	35	MGRA-2022-02.35	In the Wildfire Methodology section of Table 4-19, SDG&E states that its WiNGS-Ops analysis will estimate harm from wildfire smoke as "population impacted X smoke fatality fraction". Please provide description and documentation 2022 Wildfire Mitigation Plans for how SDG&E will estimate the impacted population and the smoke fatality fraction.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.1	4.5.1.1 PoI Model Page 86
49	MGRA	2022-02	MGRA-2022-02	36	MGRA-2022-02.36	Provide any references or external partners used to develop SDG&E's smoke impact model.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
50	MGRA	2022-02	MGRA-2022-02	37	MGRA-2022-02.37	Describe whether and how smoke hospitalizations would be incorporated into SDG&E's smoke impact model.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
51	MGRA	2022-02	MGRA-2022-02	38	MGRA-2022-02.38	Please provide the geospatial map files used to create Figures 4-36 and 4-37 showing RFW and HWW days in file 2022_02_05_SDGE_2022_WMP Update_GIS Layer_452_2.zip if not already provided.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022	1	No	4.5	4.5 Model and Metric Calculation Methodologies Page 85	4.5.2	4.5.2 Calculation of Key Metrics Page 135
52	MGRA	2022-02	MGRA-2022-02	39	MGRA-2022-02.39	On p. 299, the WMP states that "Hazard tree trimming or removal is prioritized where necessary if failure is determined to be imminent." Describe the conditions that would lead SDG&E arborists to classify a "strike potential" tree as being prone to imminent failure.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	7.3	7.3 Detailed Wildfire Mitigation Programs Page 195	7.3.5.16	7.3.5.16 Removal and remediation of trees with strike potential to electric
53	MGRA	2022-02	MGRA-2022-02	40	MGRA-2022-02.40	Please provide a version of the analysis of frequently de-energized circuits (pp.369-373) containing the additional supplemental information: a. Damage to circuits after inspection for each circuit/outage	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022	1	No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL	8.6	8.6 Identification of Frequently De-Energized Circuits Page 369
54	MGRA	2022-02	MGRA-2022-02	41	MGRA-2022-02.41	What is the estimated effectiveness for a combination of SDG&E's falling conductor technology and covered conductor for all ignition risk drivers?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
55	MGRA	2022-02	MGRA-2022-02	42	MGRA-2022-02.42	In what scenarios would a combination of SDG&E's falling conductor technology and covered conductor still have significant residual ignition risk?	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	N/A	N/A	N/A	N/A
56	MGRA	2022-02	MGRA-2022-02	43	MGRA-2022-02.43	In the Machine Learning model used to estimate risk tree scores, please provide the "distribution of risk scores" (p. E-9) that were used to determine a threshold of 0.15 for "risk trees".	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	Attachment E	Measuring Effectiveness of Enhanced Vegetation Management		
57	MGRA	2022-02	MGRA-2022-02	44	MGRA-2022-02.44	Describe the qualitative considerations that led to the value .15 being chosen for the "risk tree" threshold.	Joseph Mitchell on behalf of MGRA	2/22/2022	2/24/2022	2/24/2022		No	Attachment E	Measuring Effectiveness of Enhanced Vegetation		
58	OEIS	2022-01	OEIS-2022-01	1	OEIS-2022-01.1	Regarding the Maturity Survey, specifically question D.I.b "How frequently is the condition assessment updated?": a. Why is SDGE unable to improve on quarterly updates to the condition assessment (e.g., why not more frequent updates)? b. What is delaying updates?	Sara S. Moore	2/22/2022	2/25/2022	2/25/2022		No	N/A	N/A	N/A	N/A

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59	OEIS	2022-01	OEIS-2022-01	2	OEIS-2022-01.2	Regarding the Quarterly Data Report: a.Please either identify where the following required information can be found in SDG&E's submission (as it was not found in the QDR), provide the missing information, or provide a detailed explanation of why SDG&E cannot provide the required information: i.In Table 11 (PSPS Table), columns pertaining to 2023 projections (not provided in SDG&E's submission). ii.Units in Table 7.1 (Ignitions Table) were changed from "# risk events (excluding ignitions)" to "# risk events." (1)Were ignitions included in the reported risk event count? (2)If ignitions were included in the reported risk event count, provide an ignitions table that excludes ignitions. iii.In Table 8, state of service territory for 2015-2019 (not reported in SDG&E's Table 8). iv.In Table 9, actual equipment additions/removals for 2020 (not reported in SDG&E's Table 9). v.In Table 7.2, HFTD Zone 1 data (missing from SDG&E's Table 7.2). vi.Table 1 historic data on grid inspections changed from 2021 submission in 2022 (for example, line 1.b.ii in 2015-2017 different in 2021 and 2022 submission).	Sara S. Moore	2/22/2022	2/25/2022	2/25/2022		No	N/A	N/A	N/A	N/A
60	OEIS	2022-01	OEIS-2022-01	3	OEIS-2022-01.3	Regarding Vegetation Management: a.Table 5-2 provides SDG&E's program metrics including targets and performance. Why did SDG&E fall about 25% short of its 2021 target for "perform enhanced inspections, patrols, and trimming"? i. Additionally, provide a table on the model of the example below, identifying the reasons why SDG&E fell short of this target and the portion of the target affected by that reason. Constraint CategoryConstrained Miles Land or Environmental Hold Customer Refusals or Non-Contacts Permitting & Operational Holds b. Under 7.3.5.15, Identification and remediation of "at-risk species," SDG&E states that during this WMP cycle its enhanced vegetation management program is projected to reduce 0.44 ignitions by the end of 2022. Considering projected ignitions in Tier 2 and Tier 3, what is the projected ignition from vegetation contact reduction percentage attributed to enhanced vegetation management? For example: 0.44/ "Projected ignitions caused by veg contact (distribution) for 2020-2022 in Tier 2+3" = x. c. On page 97, SDG&E says its Vegetation Risk Index (VRI) is instrumental for PSPS decision making. In this Section (4.5.1.2) there is no mention of VRI's use in informing vegetation management initiatives. On page 189, SDG&E says VRI is a "decision-making regarding enhanced vegetation management work." There are also several mentions of how SDG&E plans to use VRI in the future. Clarify how VRI is currently used and will be used in executing SDG&E's WMP in 2022. i. Is VRI currently used to prioritize high-risk areas for VM initiatives, such as inspections and enhanced vegetation management? (1)If so, which VM initiatives?	Sara S. Moore	2/22/2022	2/25/2022	2/25/2022		No	7/Various	7 MITIGATION INITIATIVES Page 176	7.3.5.15/Various	7.3.5.15 Identification and remediation of "at-risk species" Page 296
61	OEIS	2022-01	OEIS-2022-01	4	OEIS-2022-01.4	Regarding PSPS Lessons Learned: a.In Section 8.1 "Directional Vision for Necessity of PSPS," the 2022 Wildfire Mitigation Plan Update Guidelines Template directs utilities to "[d]escribe any lessons learned from PSPS since the last WMP submission and describe expectations for how the utility's PSPS program will evolve over the coming 1, 3, and 10 years" (p. 79). While SDG&E describes recent progress in its 2022 WMP Update with a significant focus on the past year, it doesn't describe its expectations for the future. There is some relevant information in Table 8.1-1 "Anticipated Characteristics of PSPS Use Over Next 10 Years" (p. 353), however, Energy Safety is seeking to understand the broad, organization-wide vision for the future. Where can this information be found in the WMP Update? b.If this information can't be found in the WMP Update, please provide it.	Sara S. Moore	2/22/2022	2/25/2022	2/25/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.1	8.1 Directional Vision for Necessity of PSPS Page 351
62	CalPA	2022-07	CalPA-2022-07	1	CalPA-2022-07.1	On page (p.) 196 of SDG&E's 2022 WMP, SDG&E states that "Working with Technosylva and others, SDG&E is implementing innovative approaches to leverage these models for the evaluation of hardening projects and for the safe operation of the system." a) Explain, in detail, SDG&E's work with Technosylva in the context of the quote above. b) Explain, in detail the "innovative approaches" that SDG&E discussed with Technosylva in the context of the quote above. c) What is SDG&E's time frame to implement the approaches addressed in part (b)?	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.1	7.3.1 Risk Assessment and Mapping Page 196
63	CalPA	2022-07	CalPA-2022-07	2	CalPA-2022-07.2	In Section 4.5.1.7 of SDG&E's 2022 WMP titled "4.5.1.7 Wildfire Next Generation System-Planning," SDG&E states "The use of WiNGS-Planning to inform priorities in the WMP is limited to some of the covered conductor and undergrounding scope identified for 2022 as well as the Standby Power Program." a) Does SDG&E's WiNGS-Planning model provide any analysis or output that is then used in SDG&E's WiNGS-Ops model? b) If yes to part a), please explain how SDG&E's WiNGS-Planning model influences the WiNGS-Ops model. c) Does SDG&E anticipate that its WiNGS-Planning model will be used from 2023 onward as the main model that will influence where SDG&E will prioritize wildfire mitigation initiatives beyond covered conductor, undergrounding, and the Standby Power Program? d) If yes to part c), please explain how the WiNGS-Planning model analysis will be used from 2023 onward to determine where future	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.7	4.5.1.7 Wildfire Next Generation System-Planning Page 120
64	CalPA	2022-07	CalPA-2022-07	3	CalPA-2022-07.3	In Section 4.5.1.8 of SDG&E's 2022 WMP titled "Wildfire Next Generation System-Operations," SDG&E states "WiNGS-Ops is a new iteratively-improving, real-time risk assessment model built to evaluate and compare Wildfire and PSPS risks at the asset level (pole/span) and the sub-circuit/segment level at hourly intervals." a) In 2022, does SDG&E intend to use the WiNGS-Ops model to evaluate wildfire risks only for PSPS decision-making? b) If the answer to part (a) is yes, please explain why the WiNGS-Ops is will be used for PSPS decision-making only. c) If the answer to part (a) is no, for which other wildfire mitigation initiatives and programs does SDG&E intend to use the WiNGS-Ops model to evaluate risks in 2022?	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.8	4.5.1.8 Wildfire Next Generation System-Operations Page 129
65	CalPA	2022-07	CalPA-2022-07	4	CalPA-2022-07.4	In Section 7.3.6.1 of SDG&E's 2022 WMP titled "Automatic recloser operations," SDG&E describes the "Wide Area Situational Awareness (WASA) Project," which "is expected to go into production Quarter 1 of 2022." a) Which line of Table 12 of SDG&E's February 11, 2022 non-spatial data (2022 WMP Attachment B) reflects the costs associated with the project referenced above? b) Did SDG&E perform work related to the WASA project in 2021? c) If the answer to part (b) is yes, which line of Table 12 of SDG&E's February 1, 2022 non-spatial data (Q4 2021 Quarterly Data Report) reflects the costs associated with the work performed in 2021 for the WASA project?	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.6.1	7.3.6.1 Automatic recloser operations Page 305
66	CalPA	2022-07	CalPA-2022-07	5	CalPA-2022-07.5	In Table 12 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), SDG&E provides costs and targets for the Generator Grant Program. In the table, SDG&E reports that in 2021, it provided grant funding for 2,310 units, and total opex spending of $7.9 million. For 2022, SDG&E forecasted providing grant funding for 2,000 units, and total opex spending of $10.4 million. a) Please explain the increase in forecast costs per grant in 2022, compared to 2021, as referenced above. b) Please explain the decrease in the number of grants forecasted to be provided in 2022, compared to 2021, as referenced above.	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	Attachment B		Table 12	
67	CalPA	2022-07	CalPA-2022-07	6	CalPA-2022-07.6	For the Generator Grant Program in Table 12 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), please provide: a) The average cash value of grants provided in 2020. b) The average cash value of grants provided in 2021. c) Your forecast average cash value of grants for 2022.	Aaron Louie	2/24/2022	3/1/2022	3/1/2022		No	Attachment B		Table 12	

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68	CalPA	2022-08	CalPA-2022-08	1	CalPA-2022-08.1	In Section 4.1.5 of SDG&E's 2022 WMP, titled "Vegetation Management and Inspections," SDG&E states "The fuels modification involves the mechanical thinning of vegetation in a 50-foot radius surrounding the poles." a) In context of the above quote, does SDG&E perform any additional vegetation management, if there are trees greater than 50 feet tall that are outside of the 50-foot radius surrounding the poles? b) If the answer is yes to part a), please explain the additional steps that SDG&E takes to assure that the trees outside of the 50-foot radius do not damage the pole.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.1.5	#N/A
69	CalPA	2022-08	CalPA-2022-08	2	CalPA-2022-08.2	In Section 4.5.1.7 of SDG&E's 2022 WMP titled "4.5.1.7 Wildfire Next Generation System- In Section 4.1.5 of SDG&E's 2022 WMP, titled "Vegetation Management and Inspections," SDG&E states: In 2021 … A methodology was created to integrate the CRI and WRRM scores, poles with lower environmental impact, and poles that carry non-exempt hardware as the basis for where the activity would be performed. The initial analysis identified over 1100 poles that met the criteria. The number of actual poles cleared was dependent on customer authorization, site inspection, and environmental constraints. Please provide the number of actual poles cleared in 2021 as referenced above.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.7	4.5.1.7 Wildfire Next Generation System-Planning Page 120
70	CalPA	2022-08	CalPA-2022-08	3	CalPA-2022-08.3	In Table 1 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), SDG&E provides "Recent performance on progress metrics." Please answer the following questions regarding rows in Table 1. a. For Row 1.f, please explain the reasons for the increasing trend for the Level 1 findings in HFTD for other inspections in the last three quarters in 2021, compared to the first quarter in 2021? b. For Row 1.i, please explain the reasons for the increasing trend for the Level 2 findings in HFTD for other inspections in the last two quarters in 2021, compared to the first two quarters in 2021? c. For Row 1.j-l, please provide the reasons why Level 3 findings in HFTD are N/A. d. For Row 1.g.ii, please explain the reasons why the Level 2 findings for detailed inspections - Distribution lines have a higher level in the last three quarters in 2021 compared to the previous three quarters (Q3, Q4 of 2020 and Q1 of 2021). e. For Row 1.h.ii, please explain the reasons why the Level 2 findings for detailed inspections - Distribution lines in 2021 are approximately double the number in 2020. f. For Row 1.i.ii, please explain the reasons for the increasing trend for the Level 2 findings for other inspections in the last two quarters in 2021. g. For Row 1.j-l.ii, please provide the reasons why Level 3 findings in HFTD are N/A. h. For Row 4.i, please explain the reason for the increasing trend for the Level 2 findings in HFTD for other inspections (Drone) - Distribution lines in the last two quarters in 2021. i. For Row 4.j-l, please provide the reasons why Level 3 findings in HFTD for other inspections are N/A.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	Attachment B	N/A	Table 1	N/A
71	CalPA	2022-08	CalPA-2022-08	4	CalPA-2022-08.4	On page (p.) 352 of SDG&E's 2022 WMP, SDG&E states that "Over 100 miles of overhead lines were hardened in 2021" with the goal to reduce wildfire risk and PSPS impacts. With this context: (a) What is the expected reduction in number of PSPS events in 2022 because of SDG&E's system hardening in 2021? (b) What is the expected reduction in customers impacted by PSPS in 2022 because of SDG&E's system hardening in 2021?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.1	8.1 Directional Vision for Necessity of PSPS Page 351
72	CalPA	2022-08	CalPA-2022-08	5	CalPA-2022-08.5	On page (p.) 352 of SDG&E's 2022 WMP, SDG&E states that "Based on existing electrical system data, every mile of strategic undergrounding completed in the HFTD is anticipated to reduce PSPS impacts for approximately 13 customers and for [sic] every sectionalizing device installed in the HFTD is anticipated to reduce PSPS impacts for approximately 371 customers." With this context: (a) Has SDG&E conducted a cost-effectiveness analysis of reducing wildfire and PSPS risk via undergrounding lines versus sectionalization?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.1	8.1 Directional Vision for Necessity of PSPS Page 351
73	CalPA	2022-08	CalPA-2022-08	6	CalPA-2022-08.6	On page (p.) 356 of SDG&E's 2022 WMP, SDG&E states that "After discussions with Southern Orange County stakeholders in 2021, it was determined that a mobile CRC would be adequate to support any future PSPS impacts." With this context: a) How does SDG&E determine that "mobile CRCs" are appropriate for a situation? Please include criteria used if applicable. b) What measures does SDG&E take to ensure that it provides all required services at a mobile CRC, per Commission Decision 20-05-051, p. A6?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.2	8.2 Protocols on Public Safety Power Shut-off Page 354
74	CalPA	2022-08	CalPA-2022-08	7	CalPA-2022-08.7	On page (p.) 359 of SDG&E's 2022 WMP, Figure 8-3: Historical FPI from 2022 to 2021, SDG&E highlights the correlation between Fire Potential Index and major wildfires. With this context: a) How does SDG&E define a "major wildfire"? b) How does SDG&E define a "catastrophic wildfire"? c) Is Figure 8-3 based on data from SDG&E's service territory or statewide data? d) Please identify each of the major wildfires noted with a circle in Figure 8-3, including the name of the fire, ignition date, and the utility service territory in which it ignited.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.2	8.2 Protocols on Public Safety Power Shut-off Page 354
75	CalPA	2022-08	CalPA-2022-08	8	CalPA-2022-08.8	On page (p.) 363 of SDG&E's 2022 WMP, SDG&E describes its new Public Safety Partner Portal. With this context: a) Did SDG&E receive any feedback from any Public Safety Partners (including first responders, jurisdictions, tribal governments, water, and telecommunications providers, CalOES, and County OES) on the function of the portal? b) If the answer to part (a) is yes, please list each partner who provided feedback and the nature of their feedback.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022	1	No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.2	8.2 Protocols on Public Safety Power Shut-off Page 354
76	CalPA	2022-08	CalPA-2022-08	9	CalPA-2022-08.9	In section 8.4 of SDG&E's 2022 WMP, titled "Engaging Vulnerable communities", on page (p.) 366 SDG&E describes its engagement with Community Based Organizations (CBOs) to help prepare Access and Functional Needs (AFN) customers for PSPS events. With this context: a) Please identify each CBO that provided feedback to SDG&E on this topic in 2021. b) For each CBO that provided feedback SDG&E's efforts to mitigate the impacts of PSPS in 2021, please describe the feedback. c) Please provide one example each of a communication from each of SDG&E's partner CBOs regarding managing PSPS impacts on AFN and/or medical baseline customers. d) Please describe the feedback that SDG&E received from AFN customers on SDG&E's efforts to mitigate the impacts of PSPS in 2021.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022	1	No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.4	8.4 Engaging Vulnerable Communities Page 365
77	CalPA	2022-08	CalPA-2022-08	10	CalPA-2022-08.10	In subsection 4 of section 4.5.1.1 of SDG&E's 2022 WMP, titled "PoI Model," SDG&E acknowledges gaps in "ground truth" data sources. SDG&E states: To address gaps in "ground truth" data sources, such as GIS asset information, the Enterprise Asset Management Platform (EAMP) provides users with the technology to make better informed decisions on maintenance, inspection, risk identification, and prioritizing electric asset. investments." a) Does SDG&E dispatch field observers to areas with expected gaps in "ground truth" information to validate PSPS decision-making? b) If the answer to (a) is yes, how influential on the final decision on whether to de-energize are the opinions of the field observers discussed in part (a)?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.1	4.5.1.1 PoI Model Page 86

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78	CalPA	2022-08	CalPA-2022-08	11	CalPA-2022-08.11	In section 4.5.1.1 of SDG&E's 2022 WMP, titled "PoI Model," SDG&E states that Similarly, the determination of asset installation date for older assets, which is critical for failure rate calculations, requires heavy investigation into documents that are often difficult to manage or access. The POI models rely on this foundational data infrastructure and are limited by the quality of this data. a) When the installation date of an asset is unknown, how does SDG&E determine the installation date to use for purposes of failure rate calculations? Does SDG&E estimate or assume asset installation dates? b) If SDG&E uses estimated or assumed installation dates for purposes of failure rate calculations, how does SDG&E determine these dates? c) To what extent does the failure rate calculation impact PSPS decision-making?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.1	4.5.1.1 PoI Model Page 86
79	CalPA	2022-08	CalPA-2022-08	12	CalPA-2022-08.12	In section 4.5.1 of SDG&E's 2022 WMP, SDG&E provides Table 4-17 titled, "Risk Drivers for POI Models." a. Does SDG&E consider contact risks (such as balloon contact, vehicle strike, or animal contact) when making PSPS decisions? b. If so, how?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1	4.5.1 Additional Models for Ignition Probability, Wildfire, and PSPS Ris Page 85
80	CalPA	2022-08	CalPA-2022-08	13	CalPA-2022-08.13	In section 4.5.1 of SDG&E's 2022 WMP, SDG&E describes how it distills complex POI model outputs into a "high-medium-low" scale for use in PSPS decision-making. SDG&E states, "Since the amount of detail contained in the model may overwhelm decision-makers during activation, key information was distilled into a 'high-medium-low' CRI to match the format, simplicity, and familiarity of the VRI." a) Describe how SDG&E determined which value thresholds to use for the "high" POI category. b) Please state the thresholds for the "high" PoI category. c) Describe how SDG&E determined which value thresholds to use for the "medium" POI category. d) Please state the thresholds for the "medium" PoI category. e) Describe how SDG&E determined which value thresholds to use for the "low" POI category. f) Please state the thresholds for the "low" PoI category.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1	4.5.1 Additional Models for Ignition Probability, Wildfire, and PSPS Ris Page 85
81	CalPA	2022-08	CalPA-2022-08	14	CalPA-2022-08.14	In SDG&E's 2022 WMP, Figure 4-22: Wildfire Growth Simulation Example, provides an example of simulated wildfire growth over the span of 15 hours, with associated impact on structures. a) When using wildfire growth simulations, like that provided in Figure 4-22 of your WMP update, for PSPS event scoping, does SDG&E modify the assumption of 15 hours of unchecked wildfire growth depending on the location of the ignition? (For example, ignitions in more densely populated areas are typically closer to firefighting resources.) b) When using wildfire growth simulations for PSPS event scoping, does SDG&E modify its assumptions of fire spread based on the contemporaneous availability of firefighting resources? c) Are there any circumstances other than those discussed in parts (a) and (b), where you modify the assumption of 15 hours of fire spread when using wildfire growth simulations?	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.3	4.5.1.3 Wildfire Risk Reduction Model Page 97
82	CalPA	2022-08	CalPA-2022-08	15	CalPA-2022-08.15	In SDG&E's 2022 WMP, Table 4-19: Model Assumptions for PSPS and Wildfire Consequence, one of the values used by SDG&E is "Serious Injuries and Fatalities (SIF) per customer minutes." Please explain how SDG&E calculates SIF and provide any relevant supporting documentation.	Aaron Louie	3/1/2022	3/3/2022	3/3/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.8	4.5.1.8 Wildfire Next Generation System-Operations Page 129
83	OEIS	2022-02	OEIS-2022-02	1	OEIS-2022-02.1	Climate-driven risk map (Initiative 7.3.1.2) and integration of climate trends into risk models: a.Initiative 7.3.1.2 "Climate-driven risk map and modelling based on various relevant weather scenarios" (2022 SDG&E WMP Update p. 200) doesn't include the details on initiative (parts 1-5). Please provide these details as follows: 1. Risk to be mitigated / problem to be addressed 2. Initiative selection ("why" engage in initiative) 3. Region prioritization ("where" to engage initiative) 4. Progress on initiative since the last WMP submission and plans, targets, and/or goals for the current year 5. Future improvements to initiative—include known future plans (beyond the current year) and new/novel strategies the utility may implement in the next five years (e.g., references to and strategies from pilot projects and research detailed in Section 4.4) See p. 74 of the 2022 Wildfire Mitigation Plan Update Guidelines Template for more information. b.Please point to the document page number where SDG&E's 2022 WMP Update describes how the utility incorporates the climate trends seen in the climate-driven risk map into risk models or other risk-informed analyses that inform mitigation selection/prioritization and decision-making processes.	Sara S. Moore	3/1/2022	3/4/2022	3/4/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.1.2	7.3.1.2 Climate-driven risk map and modelling based on various relevant weather scenarios Page 200
84	OEIS	2022-02	OEIS-2022-02	2	OEIS-2022-02.2	Regarding Projected Changes to PSPS Impact (Section 8.3): a.Section 8.3 "Projected changes to PSPS impact" (2022 SDG&E WMP Update p. 364) doesn't directly answer the question posed in the Guidelines Template (ps. 81-82). Indicate where in the WMP Update (section and page number) this description is provided, or provide these details as follows: Describe utility-wide plan to reduce scale, scope and frequency of PSPS for each of the following time periods, highlighting changes since the prior WMP report and including key program targets used to track progress over time: 1. By June 1 of current year 2. By September 1 of current year 3. By next WMP submission See ps. 81-82 of the 2022 Wildfire Mitigation Plan Update Guidelines Template for more information.	Sara S. Moore	3/1/2022	3/4/2022	3/4/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.3	8.3 Projected Changes to PSPS Impact Page 364
85	OEIS	2022-02	OEIS-2022-02	3	OEIS-2022-02.3	Regarding expulsion fuses: a.Please provide SDG&E's timeline for replacing the remaining Tier 2 and Tier 3 expulsion fuses, broken down by replacements completed per year.	Sara S. Moore	3/1/2022	3/3/2022	3/4/2022		No	N/A	N/A	N/A	N/A
86	OEIS	2022-02	OEIS-2022-02	4	OEIS-2022-02.4	Regarding Attachment B Table 7.1: Key recent and projected drivers of risk events: a.Please provide SDG&E's timeline for replacing the remaining Tier 2 and Tier 3 expulsion fuses, broken down by replacements completed per year. b.What is covered in the "Other" category in Rows 20, 39, 65, and 91? c.What is the cause for the increase in 2021 for "Other" outage causes as seen in Row 65?	Sara S. Moore	3/1/2022	3/3/2022	3/4/2022		No	Attachment B	N/A	Table 7.1	N/A

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Question Count	Party Name	DR Set #	Data Request	Question No.	Question ID	Question Text	Requestor	Date Rec'd	Final Due Date	Date Sent	Number of Atchs	NDA Required	WMP Section	Category	Sub Category	
87	OEIS	2022-02	OEIS-2022-02	5	OEIS-2022-02.5	Regarding equipment failures at the distribution level: a.How is SDG&E planning on addressing the wildfire risk presented by the following equipment failures at the distribution level, which showed increase wire down and/or outage events in 2021? i.Describe any root cause analyses evaluating the cause for the increases in 2021 and any associated changes in maintenance or inspections from lesson learned in 2021: (1) Connectors/connection devices (2) Capacitor banks (3) Lightning arrestors (4) Crossarms (5) Transformers	Sara S. Moore	3/1/2022	3/4/2022	3/4/2022		No	N/A	N/A	N/A	N/A
88	OEIS	2022-02	OEIS-2022-02	6	OEIS-2022-02.6	Regarding insulators and brushings at the transmission level: How is SDG&E planning on addressing the wildfire risk presented by insulators and brushings at the transmission level, which showed increase wire down and/or outage events in 2021? i. Describe any root cause analyses evaluating the cause for the increases in 2021 and any associated changes in maintenance or inspections from lesson learned in 2021.	Sara S. Moore	3/1/2022	3/4/2022	3/4/2022		No	N/A	N/A	N/A	N/A
89	OEIS	2022-03	OEIS-2022-03	1	OEIS-2022-03.1	Regarding Covered conductor inspection and maintenance: a. Please provide all supporting materials and procedures details specific to covered conductor maintenance and inspections. Include demonstration of adjustments or improvements to existing programs, if any have been made; any specific portions of SDG&E's inspection checklists relating to covered conductor compared to bare conductor, and statistics of inspections performed for covered conductor	Sara S. Moore	3/2/2022	3/7/2022	3/7/2022		No	N/A	N/A	N/A	N/A
90	CalPA	2022-09	CalPA-2022-09	1	CalPA-2022-09.1	In Attachment D of SDG&E's 2022 WMP, titled "Detailed Progress Report on Key Areas of Improvement," SDG&E states on page (p.) 22: SDG&E has taken additional steps to improve the inspections and testing of SCADA switches to minimize customer impacts of devices being inoperable during PSPS events. SDG&E instituted new processes during the 2020 PSPS season that included identifying bypassed devices and devices out of communication within the HFTD. In 2021 SDG&E has identified 33 such devices and has repaired 30 to date, restoring their remote functionality. a) When does SDG&E plan to have the last three remaining SCADA devices that were identified in 2021 restored to full remote functionality? b) What are the "additional steps" SDG&E has taken to improve the inspections of SCADA switches to avoid having inoperable switches during PSPS events? c) What is SDG&E's process for identifying and then repairing SCADA devices out of communication within the HFTD?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	Attachement D	N/A		N/A
91	CalPA	2022-09	CalPA-2022-09	2	CalPA-2022-09.2	In Attachment D of SDG&E's 2022 WMP, titled "Detailed Progress Report on Key Areas of Improvement," SDG&E states on p. 22 that "after review of these PSPS events, only three items were related to an inoperable SCADA switch and the rest were related to unexpected impacts from weather." (a) Provide an up-to-date count of how many customers experienced an unnoticed de-energization event due to inoperable SCADA switches, in 2020. 7 (b) Provide the total customer-minutes of de-energization attributable to inoperable SCADA switches in 2020. (c) Identify the date and location of each unnoticed de-energization event due to inoperable SCADA switches, in 2020. (d) Provide an up-to-date count of how many customers experienced an unnoticed de-energization event due to inoperable SCADA switches, in 2021. (e) Provide the total customer-minutes of de-energization attributable to inoperable SCADA switches in 2021. (f) Identify the date and location of each unnoticed de-energization event due to inoperable SCADA switches, in 2021.	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	Attachement D	N/A		N/A
92	CalPA	2022-09	CalPA-2022-09	3	CalPA-2022-09.3	In Attachment D of SDG&E's 2022 WMP, titled "Detailed Progress Report on Key Areas of Improvement," SDG&E states on page (p.) 22 "SDG&E takes system-level proactive steps to validate that existing SCADA switches remain fully functional. SDG&E has internal operating procedures that call for testing SCADA switches in the fire area annually." With this context: a) Describe the system-level proactive steps you took in 2021 to validate that the SCADA switches are remaining functional from start to finish. b) Describe the system-level proactive steps you have taken or plan to take in 2022 to validate that the SCADA switches are remaining functional from start to finish. c) What is the expected inspection cycle for SCADA switches in HFTD 3 areas? d) What is the expected inspection cycle for SCADA switches in HFTD 2 areas? e) What is the expected inspection cycle for SCADA switches in Non-HFTD areas?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	Attachement D	N/A		N/A
93	CalPA	2022-09	CalPA-2022-09	4	CalPA-2022-09.4	In Attachment D of SDG&E's 2022 WMP, titled "Detailed Progress Report on Key Areas of Improvement," SDG&E references "non-communicative SCADA switches." With this context: a) Has SDG&E identified any additional "non-communicative SCADA switches" (that is, additional to those identified during the 2020 PSPS season) for which it will need to restore remote functionality in 2022? b) If yes to part a), how many such additional non-communicative SCADA switches were identified in 2021? c) If yes to part a), how many such additional non-communicative SCADA switches were identified in 2022? d) If yes to part a), what is SDG&E's timeline to addresses the identified switches referenced in part a)?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	Attachement D	N/A		N/A
94	CalPA	2022-09	CalPA-2022-09	5	CalPA-2022-09.5	In Table 12 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), SDG&E provides "Mitigation initiative financials." Please answer the following questions regarding Table 12, Row 25, cell BB: a) How many of the 33 identified SCADA capacitors are within a Tier 3 HFTD area? b) How many of the 33 identified SCADA capacitors are within a Tier 2 HFTD area? c) How many of the 33 identified SCADA capacitors are within a Non-HFTD area?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	Attachment B	N/A	Table 12	N/A
95	CalPA	2022-09	CalPA-2022-09	6	CalPA-2022-09.6	a) Has SDG&E set a target date to complete the planned 2022 vegetation management (VM) work in HFTD areas that is described in your 2022 WMP update? b) If the answer to part a) is yes, please provide this target date. c) If the answer to part a) is no, please explain why you do not have a target date to complete the planned 2022 vegetation management (VM) work in HFTD areas.	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
96	CalPA	2022-09	CalPA-2022-09	7	CalPA-2022-09.7	a) Has SDG&E set a target date to complete the planned 2022 enhanced vegetation management (EVM) work in HFTD areas that is described in your 2022 WMP update? b) If the answer to part a) is yes, please provide this target date. c) If the answer to part a) is no, please explain why you do not have a target date to complete the planned 2022 enhanced vegetation management (EVM) work in HFTD areas.	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A

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97	CalPA	2022-09	CalPA-2022-09	8	CalPA-2022-09.8	Please provide the following: a) The average amount of person-hours to perform a single climbing inspection of a transmission tower in 2021. b) The minimum amount of person-hours spent on a single climbing inspection of a transmission tower in 2021. c) The total amount of person-hours spent on climbing inspections of transmission towers in 2021. d) The total number of transmission towers that SDG&E performed climbing inspections on in 2021. 9 e) The total number of climbing inspections of transmission towers that SDG&E performed in 2021 (note: this would differ from part (d) if you inspected the same tower more than once).	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
98	CalPA	2022-09	CalPA-2022-09	9	*CalPA-2022-09.9*	Please provide the following: a) The average amount of person-hours to perform a single drone inspection of a transmission tower in 2021. b) The minimum amount of person-hours spent on a single drone inspection of a transmission tower in 2021. c) The total amount of person-hours spent on drone inspections of transmission towers in 2021. d) The total number of transmission towers that SDG&E performed drone inspections on in 2021. e) The total number of drone inspections of transmission towers that SDG&E performed in 2021 (note: this would differ from part (d) if you inspected the same tower more than once).	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
99	CalPA	2022-09	CalPA-2022-09	10	*CalPA-2022-09.10*	Please provide the following: a) The average amount of person-hours to perform a single detailed ground inspection of a transmission tower in 2021. b) The minimum amount of person-hours spent on a single detailed ground inspection of a transmission tower in 2021. c) The total amount of person-hours spent on detailed ground inspections of transmission towers in 2021. d) The total number of transmission towers that SDG&E performed detailed ground inspections on in 2021. e) The total number of detailed ground inspections of transmission towers that SDG&E performed in 2021 (note: this would differ from part (d) if you inspected the same tower more than once).	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
100	CalPA	2022-09	CalPA-2022-09	11	*CalPA-2022-09.11*	a) How many Level 1 corrective tags were issued as a result of transmission tower climbing inspections in 2021? b) How many Level 2 corrective tags were issued as a result of transmission tower climbing inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
101	CalPA	2022-09	CalPA-2022-09	12	*CalPA-2022-09.12*	a) How many Level 1 corrective tags were issued as a result of transmission tower drone inspections in 2021? b) How many Level 2 corrective tags were issued as a result of transmission tower drone inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
102	CalPA	2022-09	CalPA-2022-09	13	*CalPA-2022-09.13*	a) How many Level 1 corrective tags were issued as a result of transmission tower detailed ground inspections in 2021? b) How many Level 2 corrective tags were issued as a result of transmission tower detailed ground inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
103	CalPA	2022-09	CalPA-2022-09	14	*CalPA-2022-09.14*	a) How many Level 1 corrective tags were issued as a result of work verification or quality control of transmission tower climbing inspections in 2021? b) How many Level 2 corrective tags were issued as a result of work verification or quality control of transmission tower climbing inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
104	CalPA	2022-09	CalPA-2022-09	15	*CalPA-2022-09.15*	a) How many Level 1 corrective tags were issued as a result of work verification or quality control of transmission tower drone inspections in 2021? b) How many Level 2 corrective tags were issued as a result of work verification or quality control of transmission tower drone inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
105	CalPA	2022-09	CalPA-2022-09	16	*CalPA-2022-09.16*	a) How many Level 1 corrective tags were issued as a result of work verification or quality control of transmission tower detailed ground inspections in 2021? b) How many Level 2 corrective tags were issued as a result of work verification or quality control of transmission tower detailed ground inspections in 2021?	Aaron Louie	3/3/2022	3/8/2022	3/8/2022		No	N/A	N/A	N/A	N/A
106	OEIS	2022-04	OEIS-2022-04	1	*OEIS-2022-04.1*	Regarding the "Other" category in response to OEIS-SDGE-22-002 Q4 Attachment B Table 7.1: Key recent and projected drivers of risk events: a. Please provide the number and percentage of each cause code under "Other" as referenced in OEIS-SDGE-22-002 Response 4. b. If a field is null or not provided, how does "Other" differ from "Unknown"?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	N/A	N/A	N/A	N/A
107	OEIS	2022-04	OEIS-2022-04	2	*OEIS-2022-04.2*	Regarding aggregated targets presented by SDG&E in a PSPS workshop on February 25, 2022: SDG&E presented the following 2021 and 2022 targets: • Asset install/Replacement: 2021 target 7,176; 2022 target 4,325 • Distribution inspections: 2021 target 169k; 2022 target 151k • Transmission inspections: 2021 target 19,638; 2022 target 16,707 a. Explain why SDG&E has decreased its targets for 2022 for each respective category. b. Provide a breakdown of all initiatives aggregated into these targets, including the associated targets for each initiative (i.e., types of assets being installed and replaced).	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	N/A	N/A	N/A	N/A
108	OEIS	2022-04	OEIS-2022-04	3	*OEIS-2022-04.3*	Regarding the sensitive/fast protection settings discussed in Section 7.3.6.2 "Protective equipment and device settings" of SDG&E's 2022 WMP Update (p. 307): a. What number and percentage of remote sectionalizing devices have the capability to enable these settings? b. Would all devices with such a setting capability within the HFTD be enabled during days with an extreme FPI rating or PSPS-triggering conditions? i. If not, how does SDG&E determine which devices are enabled and when? c. How would conditions triggering a PSPS event differ from an extreme FPI rating when determining if settings are enabled? d. What sensitive/fast protection settings are enabled on days where the fire potential is extreme and when conditions may warrant a PSPS? i. What is the increased sensitivity? ii. Are they factory-based settings? If not, how are settings determined? iii. Are the same settings enabled for all devices? If not, how are locations for settings determined?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.6.2	7.3.6.2 Protective equipment and device settings Page 307
109	OEIS	2022-04	OEIS-2022-04	4	*OEIS-2022-04.4*	Regarding SDG&E's statement on covered conductor's potential to raise the threshold for PSPS events ("The Covered Conductor Program has the potential to raise the threshold for PSPS events to higher wind speeds compared to bare conductor hardening" from SDG&E's 2022 WMP Update, p. 214) : a. Has SDG&E determined how wind thresholds will be changed? i. If so, please provide estimates of wind thresholds that may be changed (i.e., changes of wind speed that would result in removing circuits from consideration of PSPS events). b. When does SDG&E intend to complete a full covered conductor project? c. When does SDG&E plan to change its wind thresholds, if changes in thresholds are being implemented separately from covered conductor installation?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.3	7.3.3.3 Covered conductor installation Page 213
110	OEIS	2022-04	OEIS-2022-04	5	*OEIS-2022-04.5*	Regarding the Nov. 1 Change Order Report request to decrease scale for Initiative 7.3.3.8.2 Microgrids: a. What mitigation measures is SDG&E implementing to lower wildfire and PSPS risk for the Sherilton Valley area prior to undergrounding or installing covered conductor?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.8.2	7.3.3.8.2 Microgrids Page 219

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111	OEIS	2022-04	OEIS-2022-04	6	*OEIS-2022-04.6*	Regarding the Nov. 1 Change Order Report request to change estimated spend for Initiative 7.3.3.16 Strategic Undergrounding: a. Were the undergrounding projects performed in 2021 in the same locations as those indicated in SDG&E's 2021 WMP Update? b. Did SDG&E address the known highest risk areas through the undergrounding projects performed in 2021?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.16	7.3.3.16 Undergrounding of electric lines and/or equipment Page 230
112	OEIS	2022-04	OEIS-2022-04	7	*OEIS-2022-04.7*	Regarding the WRRM-Ops modeling assumptions and limitations: a. In SDG&E's 2022 WMP Update, p. 110, the Modeling Assumptions and Limitations subsection (Section 4.5.1.4 Wildfire Risk Reduction Model – Operations, subsection 4) says "Modeling assumptions and limitations are available from the vendor" and points to footnote 28 ("See Wildfire Analyst, available at https://www.wildfireanalyst.com/features/"). The link in the footnote takes you to the Technosylva web site. Where on that web site can Energy Safety find assumptions and limitations of the WRRM-Ops model?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022	1	No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.4	4.5.1.4 Wildfire Risk Reduction Model – Operations Page 108
113	OEIS	2022-04	OEIS-2022-04	8	*OEIS-2022-04.8*	Regarding a possible mistake in graphic labels: a. In SDG&E's 2022 WMP Update, p. 111, the Figure 4-26 "Data Flow for Calculating Risk Metrics for Customer OH Assets" includes elements that are labeled "SCE domain landscape data" and "Daily SCE Weather Forecast." Is this a labeling mistake? i. If so, what are the correct labels for these elements?	Sara S. Moore	3/10/2022	3/15/2022	3/15/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3	7.3.3 Grid Design and System Hardening Page 210
114	OEIS	2022-05	OEIS-2022-05	1	*OEIS-2022-05.1*	Regarding asset inspection QA/QC results: a. Provide the QA/QC results for asset inspections broken down by inspection type completed in 2019, 2020, and 2021. This should include: i. Percentage of inspections with infractions found. ii. Number of infractions found. iii. List of lessons learned from infractions and associated changes made to inspections moving forward.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A		N/A	
115	OEIS	2022-05	OEIS-2022-05	2	*OEIS-2022-05.2*	Regarding SDG&E's lifecycle cost analysis: In Section 7.3.8.1 "Allocation methodology development and application" (p. 321), SDG&E describes enhancements and progress made in 2021 with its WiNGS-Planning model to include "Initiated lifecycle cost analysis and developed preliminary approach for incorporating it into RSE calculations" (p. 323) and enhancement planned for 2022 to include "Incorporate lifecycle cost analysis into WiNGS-Planning" (p. 323). a. Describe the scope of SDG&E's lifecycle cost analysis. i. What percentage of mitigation activities undergo lifecycle cost analysis? b. List the individual components of lifecycle cost analysis for each mitigation activity as granularly as possible. c. Explain the expected timeline to incorporate lifecycle cost analysis into WiNGS-Planning. d. Discuss how the incorporation of lifecycle cost has affected the RSE scores of mitigation activities.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.8.1	7.3.8.1 Allocation methodology development and application Page 321
116	OEIS	2022-05	OEIS-2022-05	3	*OEIS-2022-05.3*	Regarding the 500 poles cleared to 50-foot radius: In the 2022 WMP workshop, SDG&E briefly touched on the removal of "dead or dying fine fuels at ground level within a 50-foot radius" of 500 poles in the HFTD. a. Discuss how these 500 poles are chosen for the 50 ft radius. b. Is SDG&E considering alternative mitigation measures (i.e., ones that would negate the need for the 50 ft)? i. If so, what are those mitigation measures? ii. If not, why not?	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A	N/A	N/A	N/A
117	OEIS	2022-05	OEIS-2022-05	4	*OEIS-2022-05.4*	Regarding SDG&E's target shortfall on pole brushing: a. Please provide an explanation for SDG&E's program target shortfall for "perform pole brushing" in 2021 (the target in 2021 was 35,500 poles brushed while the performance in 2021 was 35,102, per Table 5-2, p. 156).	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	5	5 INPUTS TO THE PLAN AND DIRECTIONAL VISION FOR WMP Page 144	5.3	5.3 Plan Program Targets Page 150
118	OEIS	2022-05	OEIS-2022-05	5	*OEIS-2022-05.5*	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?	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	5	5 INPUTS TO THE PLAN AND DIRECTIONAL VISION FOR WMP Page 144	5.3	5.3 Plan Program Targets Page 150
119	OEIS	2022-05	OEIS-2022-05	6	*OEIS-2022-05.6*	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?	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	Attachment B	N/A	N/A	N/A
120	OEIS	2022-05	OEIS-2022-05	7	*OEIS-2022-05.7*	Regarding inventory vegetation: As of January 1, 2022: a. How many inventory trees does SDG&E have in the HFTD? b. How many inventory bamboo does SDG&E have in its service territory? c. How many inventory Century plants does SDG&E have in its service territory?	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A	N/A	N/A	N/A
121	OEIS	2022-05	OEIS-2022-05	8	*OEIS-2022-05.8*	Regarding contractor training and performance metrics: In Section 7.3.5.14 "Recruiting and training of vegetation management personnel" (p. 294), SDG&E states "SDG&E measures the success of contractor training and performance through metrics such as the number of customer complaints, outages, audit findings, claims, notice of violations, ignitions, and safety incidents." a. Please provide a full list of SDG&E's contractor training and performance metrics. Be sure to include the unit of analysis.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.14	7.3.5.14 Recruiting and training of vegetation management personnel Page 294
122	OEIS	2022-05	OEIS-2022-05	9	*OEIS-2022-05.9*	Q09. Regarding QA/QC vegetation management inspection results: a. Provide the QA/QC results for vegetation management inspections broken down by inspection type for inspections completed in 2019, 2020, and 2021. This should include: i. Percentage of inspections with infractions found (e.g., under-trimming, over-trimming, missed hazard tree, improper clean-up, etc.). ii. Percentage of (i) which required remediation (e.g., re-inspection, additional trimming, removal of a tree). iii. List of lessons learned from infractions and associated changes made to inspections moving forward.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A	N/A	N/A	N/A
123	OEIS	2022-05	OEIS-2022-05	10	*OEIS-2022-05.10*	Regarding pre-inspectors for vegetation management: a. What percentage of pre-inspectors are contractors and what percentage are SDG&E employees? b. Has SDG&E found a difference in performance between contractor and SDG&E employee pre-inspectors? i. If so, please describe the observed difference in performance. c. Please provide relevant metrics, including number of audit findings, broken down by type of inspector (contractor v. SDG&E employee) to show any differences between contractor and SDG&E employee pre-inspector performance.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A	N/A	N/A	N/A

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124	OEIS	2022-05	OEIS-2022-05	11	*OEIS-2022-05.11*	Regarding the Desktop Feasibility Study for Grid Hardening: In Figure 7-4 “Grid Hardening Flowchart” (p. 211), one of the steps of SDG&E’s grid hardening decision tree is the Desktop Feasibility Study. a. Describe the Desktop Feasibility Study process and how the Future Scope App is used in the study. b. Explain the scoring system used in the Desktop Feasibility Study. i. List the inputs to the Desktop Feasibility Study and describe the relative weighting of the inputs and how the weightings are	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3	7.3.3 Grid Design and System Hardening Page 210
125	OEIS	2022-05	OEIS-2022-05	12	*OEIS-2022-05.12*	Regarding falling conductor protection: a. Provide the number of circuit miles that have the falling conductor protection installed, including year of installation, whether it is distribution or transmission, and percentage of miles in Tier 2 and Tier 3. a. Provide the target number of circuit miles planned for installation of falling conductor protection for 2022, 2023, and 2024, including year of installation, whether it is distribution or transmission, and percentage of miles in Tier 2 and Tier 3, insofar as information is available.	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	N/A	N/A	N/A	N/A
126	OEIS	2022-05	OEIS-2022-05	13	*OEIS-2022-05.13*	Regarding the sensitive/fast protection settings discussed in Section 7.3.6.2 “Protective equipment and device settings” of SDG&E’s 2022 WMP Update (p. 307): a. In Response 3 to OEIS-SDGE-2022-004, SDG&E stated that 56.4% of all field devices have the capability to enable these protection settings. Does SDG&E intend to replace other equipment to include such capabilities? If so, provide SDG&E’s plan for replacements. b. What reliability analysis has SDG&E performed as it relates to enabling such protection settings? Provide any supporting	Sara S. Moore	3/16/2022	3/21/2022	3/21/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.6.2	7.3.6.2 Protective equipment and device settings Page 307
127	CalPA	2022-10	CalPA-2022-10	1	*CalPA-2022-10.1*	In SDG&E's WMP update, page 199 lists "initiation of third-party review of the models" as a planned enhancement to its Probability of Ignition model in 2022. Please answer the following: a) When does SDG&E plan to initiate this third-party review? b) When does SDG&E plan to complete this third-party review? c) Please describe the objectives of the planned third-party review. d) Please describe the methods that will be used for the planned third-party review. e) If SDG&E has determined who will perform the third-party review, please identify the organizations or persons responsible for the review. f) If SDG&E has not determined who will perform the third-party review, how will SDG&E make this decision? g) Does SDG&E plan to undertake a third-party review of the WRRM and WRRM-Ops models? h) If the answer to part (g) is no, why not? i) Does SDG&E plan to undertake a third-party review of the WiNGS-Planning model? j) If the answer to part (i) is no, why not? k) Does SDG&E plan to undertake a third-party review of the WiNGS-Ops model? l) If the answer to part (k) is no, why not? m) Please provide a copy of this third-party review to Cal Advocates when it is complete.	Aaron Louie	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.3.1	7.3.3.1 Capacitor maintenance and replacement program Page 212
128	CalPA	2022-10	CalPA-2022-10	2	*CalPA-2022-10.2*	Regarding Table 7.1 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), please explain in detail how the projections of future risk events affect SDG&E’s decision making process.	Aaron Louie	3/18/2022	3/23/2022	3/23/2022		No	Attachment B	N/A	Table 7.1	N/A
129	CalPA	2022-10	CalPA-2022-10	3	*CalPA-2022-10.3*	In Table 7.1 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), SDG&E provides “Key recent and projected drivers of risk events.” Please answer the following questions regarding the rows in Table 7.1 that are all marked as “Are risk events tracked for ignition driver? yes”. It is acceptable to address these rows collectively, to the extent that the same responses apply. a) What methods did SDG&E use to calculate the projected number of risk events in 2022? b) What methods did SDG&E use to calculate the projected number of risk events in 2023? c) What data did SDG&E use to calculate the projected number of risk events in 2022 to 2023? d) Please provide any workpapers SDG&E used to calculate projected risk events in this table.	Aaron Louie	3/18/2022	3/23/2022	3/23/2022	1	No	Attachment B	N/A	Table 7.1	N/A

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130	CalPA	2022-10	CalPA-2022-10	4	*CalPA-2022-10.4*	In Table 7.1 of the February 11, 2022 non-spatial data (2022 WMP Attachment B), SDG&E provides "Key recent and projected drivers of risk events." For the following rows in Table 7.1, SDG&E forecasts more risk events per year (on average) in 2022-2023 than actually occurred in 2015-2021. For each line, explain why SDG&E forecasts an increase in risk events. a) Line 1c b) Line 1d c) Line 2a d) Line 2b e) Line 2c f) Line 2d g) Line 3a h) Line 4a i) Line 6a j) Line 10h k) Line 17b l) Line 17c m) Line 17d n) Line 18a o) Line 18d p) Line 18e q) Line 18f r) Line 18g s) Line 18h t) Line 18i u) Line 18o v) Line 20a w) Line 21a x) Line 22a y) Line 23a z) Line 25c aa) Line 25e	Aaron Louie	3/18/2022	3/23/2022	3/23/2022		No	Attachment B	N/A	Table 7.1	N/A
131	CalPA	2022-10	CalPA-2022-10	5	*CalPA-2022-10.5*	In section 7.3.5.13 of SDG&E's 2022 WMP, titled "Quality assurance/quality control of vegetation management," (p. 293) SDG&E states that, SDG&E utilizes a third-party contractor to perform quality assurance audits of vegetation management activities to measure work quality, contractual adherence, compliance, and to determine the effectiveness of each component of the program. These audits include a statistical analysis of a representative sample of all completed work. Auditing is performed by ISA Certified Arborists. A minimum random sampling of 15 percent of completed work is audited to determine compliance with scoping requirements. a) Please state the number of third-party contractor quality assurance audits of vegetation management activities performed in 2021 as referenced above. b) How many of these audits produced findings of non-compliant vegetation or non-compliant line clearances? c) State the total circuit-miles of vegetation management work completed in 2021 ("all completed work"). d) State the number of circuit-miles of vegetation management work that was subject to quality assurance audits as part of the random sample mentioned above. e) How many instances of non-compliant vegetation were identified during these audits? f) Please provide copies of all reports or written findings stemming from these quality assurance audits.	Aaron Louie	3/18/2022	3/23/2022	3/23/2022	1	No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.13	7.3.5.13 Quality assurance/quality control of vegetation management Page 293
132	CalPA	2022-10	CalPA-2022-10	6	*CalPA-2022-10.6*	At page 294 (as well as pp. 19-20), SDG&E states, As part of the "doubling-down" initiative for fire preparedness in advance of fire season, Vegetation Management also performed a QA/QC audit on a sample of all FiRM project work completed in 2021. This audit identified zero non-compliant tree/line clearance findings. With the context of these above quotes: a) State the total circuit-miles of FiRM project work completed in 2021. b) State the number of circuit-miles of FiRM project work that were included in the sample for this QA/QC audit. c) Was this QA/QC audit performed on a random sample of FiRM project work? d) How did SDG&E determine the sample size for this audit? e) Please provide the report or written findings of this QA/QC audit.	Aaron Louie	3/18/2022	3/23/2022	3/23/2022	1	No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.13	7.3.5.13 Quality assurance/quality control of vegetation management Page 293
133	OEIS	2022-06	OEIS-2022-06	1	*OEIS-2022-06.1*	Regarding collaboration with U.S. Forest Service on fuel reduction (Section 7.3.10.4 "Forest service and fuel reduction cooperation and joint roadmap," p. 350): a. Section 7.3.10.4 doesn't include the details on the initiative (parts 1-5): it only points to Section 7.3.5.2; Energy Safety did not find the initiative details in that section. Please provide these details as follows: 1. Risk to be mitigated / problem to be addressed 2. Initiative selection ("why" engage in initiative) 3. Region prioritization ("where" to engage initiative) 4. Progress on initiative since the last WMP submission and plans, targets, and/or goals for the current year 5. Future improvements to initiative—include known future plans (beyond the current year) and new/novel strategies the utility may implement in the next five years (e.g., references to and strategies from pilot projects and research detailed in Section 4.4) See p. 74 of the 2022 Wildfire Mitigation Plan Update Guidelines Template for more information. b. Has SDG&E reached any agreements with the U.S. Forest Service for implementation of a long-term fuels management program? i. If it does have any agreements with the U.S. Forest Service, please provide details of any agreements, including a description of the work being carried out under them and the timeline for implementation. ii. If not, does SDG&E have any plans to collaborate with the U.S. Forest Service in the future? (1) If it does have plans, what are these plans and at what stage of development are they?	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.10.4	7.3.10.4 Forest service and fuel reduction cooperation and joint roadmap Page 350

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134	OEIS	2022-06	OEIS-2022-06	2	*OEIS-2022-06.2*	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?	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.8	7.3.5.8 Remote sensing inspections of vegetation around transmission electric lines and equipment Page 292
135	OEIS	2022-06	OEIS-2022-06	3	*OEIS-2022-06.3*	Regarding off-cycle vegetation management inspections (Section 7.3.5.2 "Detailed inspections and management practices for vegetation clearances around distribution electrical lines and equipment," p. 283): a. SDG&E states that in 2022 it will (1) perform an off-cycle inspection of 100% of inventory trees in the HFTD, (2) perform an off-cycle inspection of 100% of its inventory Century plants, and (3) perform two off-cycle inspects of inventory bamboo. Considering that SDG&E knows the number of inventory trees in the HFTD, inventory century plants, and inventory bamboos, why does SDG&E omit these off-cycle inspections from its list of program targets in Table 5-2?	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.2	7.3.5.2 Detailed inspections and management practices for vegetation clearances around distribution electrical lines and equipment Page 283
136	OEIS	2022-06	OEIS-2022-06	4	*OEIS-2022-06.4*	Regarding trainees completing the Apprentice Lineman Program (Emergency Planning and Preparedness issues from SDG&E's 2021 WMP Update): In Energy Safety's Final Action Statement on SDG&E's 2021 WMP Update Section 5.9 "Emergency Planning and	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	N/A	N/A	N/A	N/A
137	OEIS	2022-06	OEIS-2022-06	5	*OEIS-2022-06.5*	Regarding how customer feedback informs emergency planning (Emergency Planning and Preparedness issues from SDG&E's 2021 WMP Update): The second issue listed in Energy Safety's Final Action Statement on SDG&E's 2021 WMP Update Section 5.9 "Emergency Planning and Preparedness" concerns the lack of detail provided by SDG&E about how customer feedback informs emergency planning ("SDG&E states that after a wildfire event the utility reviews and evaluates communications to customers and the general public…" […] "The 2021 WMP Update did not provide sufficient details about this process," p. 80). The remedy reads: "SDG&E must explain what information is being collected about wildfire outreach efforts, how it is collected, and how it is used to inform future outreach efforts." The information SDG&E provided in Section 7.3.9.2 "Community outreach, public awareness, and communication efforts" (SDG&E 2022 WMP Update, p. 327) does not fully respond to the required remedy. a. Please provide a flowchart indicating at what points customer feedback is solicited (e.g., how long after a wildfire or PSPS event and/or the cycle of feedback solicitation if it happens on a regular schedule) and in what form (e.g., phone survey, online survey, etc.) and how each type of feedback informs emergency planning. b. If surveys are used to solicit customer feedback, please provide examples of survey questions and customer response options. i. If possible, please provide a copy of a survey used to solicit customer feedback after a wildfire or PSPS event. c. Is feedback solicited from all affected customers, including AFN customers? i. Are there different methods of solicitation for AFN customers? If so, what are they? d. Please provide specific examples of how customer feedback is used to "improve customer and public communications and outreach efforts for the following year" (SDG&E 2022 WMP Update, p. 329) i. If possible, please provide specific examples of instances where a program, or part of a program, was changed or improved based on customer feedback and the nature of the feedback (in summary) that initiated the change(s).	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022	1	No	N/A	N/A	N/A	N/A
138	OEIS	2022-06	OEIS-2022-06	6	*OEIS-2022-06.6*	Regarding the formal mutual assistance training program (Section 7.3.9.5 "Preparedness and planning for service restoration," p. 336): SDG&E states that it's developing a "formal mutual assistance training program" in 2022 (SDG&E 2022 WMP Update, p. 338). a. Please provide details on this new program, including how it will differ from the current "just in time" training and how it will incorporate COVID-19 protocols.	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.9.5	7.3.9.5 Preparedness and planning for service restoration Page 336
139	OEIS	2022-06	OEIS-2022-06	7	*OEIS-2022-06.7*	Regarding post-incident debriefs (Section 7.3.9.6 "Protocols in place to learn from wildfire events," p. 338): SDG&E states in Section 7.3.9.6 that its Emergency Management unit conducts facilitated debriefs after all "major" fire and PSPS-related incidents where an opportunity for improved safety, scene management, communications, and/or training has been identified. a. What qualifies as a "major" fire or PSPS incident (i.e., what are the criteria)?	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.9.6	7.3.9.6 Protocols in place to learn from wildfire events Page 338
140	OEIS	2022-06	OEIS-2022-06	8	*OEIS-2022-06.8*	Regarding SDG&E's physical infractions test yard (Section 7.3.9.1 "Adequate and trained workforce for service restoration," p. 325): SDG&E states that it has "completed construction on a physical infractions test yard with infractions that will be changed regularly for Journeymen to identify and properly code" (SDG&E 2022 WMP Update, p. 326). a. Is this a new facility, or a build out of an existing facility? b. Please describe the activities that take place at the infractions test yard. c. How does SDG&E define "infraction" in this context? Please provide examples. d. Is the infractions test yard exclusively for training Journeymen, or is it also used for training other personnel in other capacities? i. If it is used for training other personnel, please provide a list of the personnel who train at the test yard along with descriptions of training and activities for each.	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.9.1	7.3.9.1 Adequate and trained workforce for service restoration Page 325

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141	OEIS	2022-06	OEIS-2022-06	9	*OEIS-2022-06.9*	Regarding SDG&E's responses to Cal Advocates' data requests 3 and 4 (in particular DR03 Questions 1 and 2 and DR04 Questions 3 and 4): a. Explain how the wildfire risk scores differ and compare between the Excel sheets provided. b. Provide the list of projects in SDGE DR04_2021CalPA by circuit ID number that correlate to the risk calculations for undergrounding and covered conductor provided in Table 5-4 of SDG&E's 2022 WMP Update. c. Provide the additional data in Excel format for SDG&E's 2023 and 2024 system hardening workplans for distribution circuits, similar to Cal Advocates' DR04 Questions 3 and 4. i. Circuit-segment ID number (matching those provided in response to Questions 1 and 2 of Data Request CalAdvocates-SDGE-2022WMP-03) associated with the project. ii. Relevant wildfire risk score(s). iii. The start date of the project. iv. The expected completion date of the project. v. Length of covered conductor to be installed in 2023 in miles. vi. Length of underground conductor to be installed in 2023 in miles. vii. Length of traditional overhead system hardening to be performed in 2023 in miles. viii. Length in miles of any other type of system hardening project to be installed in 2023 (if this is greater than zero, please describe the type of system hardening project). ix. Length of covered conductor to be installed in 2024 in miles. x. Length of underground conductor to be installed in 2024 in miles. xi. Length of traditional overhead system hardening to be performed in 2024 in miles. xii. Length in miles of any other type of system hardening project to be installed in 2024 (if this is greater than zero, please describe the type of system hardening project). d. Provide the additional data in Excel format for SDG&E's 2023 and 2024 system hardening workplans for transmission circuits. Include the same information detailed in Q09 (c) above (i – xii).	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022	1	No	N/A	N/A	N/A	N/A
142	OEIS	2022-06	OEIS-2022-06	10	*OEIS-2022-06.10*	Regarding the WRRM-Ops model: a. Please explicitly list the limitations and assumptions of SDG&E's WRRM-Ops model.	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.3	4.5.1.3 Wildfire Risk Reduction Model Page 97
143	OEIS	2022-06	OEIS-2022-06	11	*OEIS-2022-06.11*	Regarding PSPS and circuit 79: According to Section 8.6 "Identification of Frequently De-Energized Circuits" (SDG&E 2022 WMP Update, p. 371), SDG&E indicates circuit 79 has been de-energized 12 times since January 2018. SDG&E listed a number of mitigating factors (p. 372). a. What percentage of the length of this circuit is addressed by mitigations listed on p. 372? b. What percentage of the PSPS risk on this circuit has been addressed by these mitigations? c. How many customers on this circuit have benefitted from already-implemented mitigations? i. What percentage of the customers on this circuit have benefitted from already-implemented mitigations? d. When are all mitigations for circuit 79 listed on p. 372 expected to be completed?	Sara S. Moore	3/18/2022	3/23/2022	3/23/2022		No	8	8 PUBLIC SAFETY POWER SHUTOFF (PSPS), INCLUDING DIRECTIONAL VISION FOR PSPS Page 351	8.6	8.6 Identification of Frequently De-Energized Circuits Page 369
144	CalPA	2022-11	CalPA-2022-11	1	*CalPA-2022-11.1*	Please provide a spreadsheet listing (as rows) each undergrounding project completed from January 1, 2020 through March 1, 2022. For each such project, include the following information (as columns): a) Grid hardening project ID number (matching OEIS' GIS Data Standard)3 b) Circuit ID c) ID number of each circuit-segment that was entirely undergrounded in the project d) ID number of each circuit-segment that was partially undergrounded in the project e) Circuit voltage f) Project start date g) Project completion date h) Number of months to complete the project planning i) Number of months to complete the design j) Number of months to complete the permitting k) Number of months to complete the construction l) An explanation of any additional project time not included in parts (h) through (k) above m) Total circuit-miles undergrounded n) Total miles of trenching required o) Total start-to-finish electric costs of the project (i.e., costs attributed to SDG&E's electric facilities), including costs for planning, design, permitting, and construction. p) Total start-to-finish costs of the project, including costs attributed to non-electric utilities, including costs for planning, design, permitting, and construction. q) Whether this was a Rule 20 project (yes/no) r) Whether this was a WMP project (yes/no) s) Whether this was a post-wildfire rebuilding project (yes/no) t) Whether SDG&E shared trenches for this project with any telecommunications utilities (yes/no) u) Whether SDG&E shared trenches for this project with gas facilities (yes/no) v) The expected useful life of the project	Aaron Louie	3/21/2022	3/24/2022	3/25/2022	1	No	N/A	N/A	N/A	N/A
145	CalPA	2022-11	CalPA-2022-11	2	*CalPA-2022-11.2*	Please provide a geodatabase file with a polyline feature for each undergrounding project completed from January 1, 2020 through March 1, 2022. In addition to the spatial location, please provide the following attributes for each project: a) Grid hardening project ID number (matching OEIS' GIS Data Standard)4 b) Circuit ID c) Project completion date	Aaron Louie	3/21/2022	3/24/2022	3/24/2022	2	No	N/A	N/A	N/A	N/A
146	CalPA	2022-11	CalPA-2022-11	3	*CalPA-2022-11.3*	In section 7.3.4.14 of SDG&E's 2022 WMP, titled "Quality assurance/quality control of inspections," SDG&E states that, To mitigate this risk, CMP inspections are audited. Inspection audits are managed by Operation and Engineering managers who are responsible for audits in each of the operating districts. This process also allows field supervisors to evaluate the inspectors and ensure they are all aligned with SDG&E's protocols and procedures. a) Please provide the number of inspection audits performed by Operation and Engineering managers in 2021. b) Please provide five samples of the inspection audits performed by Operation and Engineering managers in 2021.	Aaron Louie	3/21/2022	3/24/2022	3/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.4.14	7.3.4.14 Quality assurance/quality control of inspections Page 272
147	CalPA	2022-11	CalPA-2022-11	4	*CalPA-2022-11.4*	In section 7.3.4.9.2 of SDG&E's 2022 WMP, titled "Drone assessments of distribution infrastructure," SDG&E provides Figure 7-8: Intelligent Image Processing Improves. With this context: a) How long does it take for SDG&E to complete the entire process from Step 1 to Step 4 in Figure 7-8? b) Please provide five samples of the inspection reports performed by Qualified Electrical Workers (QEWs) in 2021.	Aaron Louie	3/21/2022	3/24/2022	3/24/2022	5	No	7	7 MITIGATION INITIATIVES Page 176	7.3.4.9.2	7.3.4.9.2 Drone assessments of distribution infrastructure Page 261

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148	CalPA	2022-11	CalPA-2022-11	5	*CalPA-2022-11.5*	In section 7.3.4.9.2 of SDG&E's 2022 WMP, titled "Drone assessments of distribution infrastructure," SDG&E explains and details its Drone Investigation, Assessment and Repair (DIAR) Program and work that has been completed within SDG&E's territory. With this context: a) In 2021, did SDG&E complete inspections of all the Tier 3 distribution poles that were not competed in 2020? b) If no to part (a), please state when SDG&E plans to complete inspection of all of its Tier 3 distribution poles. c) Does SDG&E plan on completing drone inspections of all the Tier 2 distribution poles in 2022? d) If no to part c), please state when SDG&E plans to have finished inspecting all the Tier 2 distribution poles as part of its DIAR program.	Aaron Louie	3/21/2022	3/24/2022	3/24/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.4.9.2	7.3.4.9.2 Drone assessments of distribution infrastructure Page 261
149	CalPA	2022-11	CalPA-2022-11	6	*CalPA-2022-11.6*	In section 4.1.3 of SDG&E's 2022 WMP, titled "Grid Design and System Hardening," SDG&E states that, "Undergrounding can be implemented effectively at shallower depths, resulting in improved cost effectiveness." With this context: a) Please state the total number of undergrounding circuit-miles that SDG&E plans to complete at "shallower depths" in 2022. b) What is SDG&E's current estimate of the cost per circuit-mile for the projects addressed in part (a) of this project? c) What is SDG&E's estimate of the cost per circuit-mile for the projects addressed in part (a), if these undergrounding projects were constructed with the traditional trench depths instead of the "shallower depths" noted in the quote above. d) Please provide any workpapers that SDG&E used to develop the cost estimates addressed in parts (b) and (c) of this question.	Aaron Louie	3/21/2022	3/24/2022	3/25/2022	1	No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.1.3	4.1.3 Grid Design and System Hardening Page 20
150	CalPA	2022-12	CalPA-2022-12	1	*CalPA-2022-12.1*	In section 7.3.5.7 of SDG&E's 2022 WMP, titled "Remote sensing inspections of vegetation around distribution electric lines and equipment" (p. 292), SDG&E states, In Quarter 3 the SDG&E Innovation Team completed the Final Readout on the LiDAR PoC for developing an enterprise-wide solution in its use of LiDAR and AI. This readout summarized analysis outcomes for vegetation clearance. Following the readout, the team collaborated with others to plan and frame the scaling of a solution to support storage, analysis, and visualization of critical LiDAR data. … Enhancements in 2022 will include … Engage with other IOUs on their use and integration of remote sensing technologies within their vegetation management programs. a) Please clarify in detail what engaging with other IOUs, in the context of the quote above, means. b) Does SDG&E share data or images with other IOUs to help develop AI for remote sensing inspections of vegetation around distribution electric lines and equipment? c) Does SDG&E use shared data or images from other IOUs to help develop its AI for remote sensing inspections of vegetation around distribution electric lines and equipment?	Aaron Louie	3/22/2022	3/25/2022	3/25/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.7	7.3.5.7 Remote sensing inspections of vegetation around distribution electric lines and equipment Page 291
151	CalPA	2022-12	CalPA-2022-12	2	*CalPA-2022-12.2*	In section 7.3.5.16 of SDG&E's 2022 WMP, titled "Removal and remediation of trees with strike potential to electric lines and equipment" (p. 300), SDG&E states, As part of its tree removal/replacement program and it's "Right Tree, Right Place" initiative, SDG&E continues to offer customers replacement trees that are compatible to plant near power lines. Beginning in 2021, tree planting initiatives were expanded with a goal to plant and distribute 10,000 trees annually to promote sustainability and mitigate the impacts of climate change. SDG&E engaged its pre-inspection contractor to manage its tree planting initiative including more effective customer outreach and engagement, proper species selection, tracking tree health, and quantifying environmental benefits. a) Please explain what is meant by "trees that are compatible to plant near power lines" in the above quote. b) Please identify the replacement trees species that SDG&E offer its customers in its tree removal/replacement program. c) Please explain whether SDG&E plants trees, seedlings, or tree seeds in its tree removal/replacement program. d) With reference to the "goal to plant and distribute 10,000 trees" noted above, how many trees did you actually plant or distribute in 2021? e) Please disaggregate the response to part (d) into: i. Trees or seedlings that you planted ii. Trees or seedlings that you distributed to customers. f) Please state SDG&E's costs "to plant and distribute 10,000 trees" in 2021 referenced above. g) Please provide SDG&E's anticipated costs "to plant and distribute 10,000 trees" in 2022 referenced above. h) Please state the number of trees SDG&E planted in 2021 in HFTD Tier 3. i) Please state the number of trees SDG&E planted in 2021 in HFTD Tier 2. j) Please state the number of trees SDG&E planted in 2021 in Non-HFTD. k) Please state the number of trees SDG&E plans to plant in 2022 in HFTD Tier 3. l) Please state the number of trees SDG&E plans to plant in 2022 in HFTD Tier 2. m) Please state the number of trees SDG&E plans to plant in 2022 in Non-HFTD.	Aaron Louie	3/22/2022	3/25/2022	3/25/2022		No	7	7 MITIGATION INITIATIVES Page 176	7.3.5.16	7.3.5.16 Removal and remediation of trees with strike potential to electric lines and equipment Page 299
152	CalPA	2022-12	CalPA-2022-12	3	*CalPA-2022-12.3*	Please provide a geodatabase file including points for trees removed and trees planted in 2021, including the following attributes for each one: a) Spatial location b) Project ID c) Whether tree was planted or removed d) Genus of tree planted or removed e) Species of tree planted or removed	Aaron Louie	3/22/2022	3/25/2022	3/25/2022	2	No	N/A	N/A	N/A	N/A
153	OEIS	2022-07	OEIS-2022-07	1	*OEIS-2022-07.1*	Regarding SDG&E's 500 poles cleared to 50-foot radius (OEIS-SDGE-22-005 Q03): a. Please explain the rationale behind choosing 50 feet as the radius in which SDG&E removes fuels around 500 poles, including any scientific or wildfire safety rationales behind the extent of clearance. b. Has SDG&E chosen a 50-foot clearance to protect its poles from being impacted (i.e., burned, damaged, or destroyed) by wildfire? c. Does SDG&E expect the poles to fail catastrophically and consequently generate sparks within the falling distance of the pole? i. If so, why does SDG&E expect its poles to fail (e.g., structural defects, storms, wind, wildfire, etc.)? d. Has SDG&E considered the environmental impacts of the 50-foot clearance distance? If so, what are environmental impacts, both positive and negative? (e.g., erosion, removal of invasive species, habitat fragmentation, water quality, etc.)	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	N/A	N/A	N/A	N/A
154	OEIS	2022-07	OEIS-2022-07	2	*OEIS-2022-07.2*	Regarding weather stations: a. How many of SDG&E's 220 weather stations have been upgraded to give readings at 10 to 30-second intervals? b. How many (in percentages) of SDG&E's weather stations are ground-based versus pole-mounted? i. Are the fuel moisture sensors on ground-based weather stations?	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	N/A	N/A	N/A	N/A

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155	OEIS	2022-07	OEIS-2022-07	3	*OEIS-2022-07.3*	Regarding the integration of artificial intelligence forecasting system on 59 of the circuit segments in the highest fire risk areas: SDG&E states in its 2022 WMP Update: "In 2021, SDG&E expanded upon the lessons learned in 2020 and integrated its artificial intelligence (AI) forecasting system across 190 weather stations" (p. 3). a. Has the number of circuit segments on which the artificial intelligence forecasting system is integrated changed? i. If so, please provide the number of high-risk circuit segments on which the artificial intelligence forecasting system is integrated.	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	Executive Summary	N/A	N/A	N/A
156	OEIS	2022-07	OEIS-2022-07	4	*OEIS-2022-07.4*	Regarding Distribution Fault Anticipation technology: a. Is SDG&E piloting Distribution Fault Anticipation (DFA) technology for incipient fault detection as part of its advanced protection program? i. If so, please provide details on any progress SDG&E has made on this initiative. ii. If not, please explain why only Early Fault Detection (EFD) is being used.	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	N/A	N/A	N/A	N/A
157	OEIS	2022-07	OEIS-2022-07	5	*OEIS-2022-07.5*	Regarding camera installation: SDG&E plans to deploy eight additional cameras for situational awareness in 2022. a. Is SDG&E planning on its camera network being complete by 2023? i. If not, what is the total number of cameras SDG&E is planning to install in its territory?	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	N/A	N/A	N/A	N/A
158	OEIS	2022-07	OEIS-2022-07	6	*OEIS-2022-07.6*	Regarding covered conductor maintenance and installation: In Southern California Edison's 2022 WMP Update, the utility states that "in high and medium vibration susceptibility areas, vibration can reduce the covered conductor's useful life from 45 years to an average of 20 years if not addressed" and that "[i]nstalling dampers minimizes equipment failure ignition drivers, such as damage or failure of the conductor, connector, and/or splice" (Section 7.3.3.3.3 "Vibration Damper Retrofit [SH-16]," p. 202).1 a. Is SDG&E including vibration dampers as part of its covered conductor installations? If so, provide the percentage of covered conductor installations that include vibration dampers, as well as a description of how SDG&E determined where to install vibration dampers. b. Has SDG&E done an analysis for determining what areas within its system would be susceptible to vibrations and potentially benefit from vibration dampers? If so, describe how SDG&E made such determinations, which areas are classified as potentially benefiting from vibration dampers, and what criteria or thresholds are used to determine if vibration dampers should be installed. c. If SDG&E is not currently including vibration dampers as part of its covered conductor installations, please explain whether SDG&E plans to do so in the future and what those plans are, including possible retrofits. Provide a description of any lessons learned regarding vibration damper installation for covered conductor, whether they be from SCE, such as lessons shared by SCE or PG&E during the joint utility covered conductor effectiveness effort, or from broader industry experience, or SDG&E's in-house research and experience.	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022		No	N/A	N/A	N/A	N/A
159	OEIS	2022-07	OEIS-2022-07	7	*OEIS-2022-07.7*	Regarding SDG&E's "Joint IOU Response to Action Statement-Covered Conductor" (Attachment H): This joint response states "[s]everal covered-conductor-specific failure modes exist that require operators to consider additional personnel training, augmented installation practices, and adoption of new mitigation strategies (e.g., additional lightning arrestors, conductor washing programs, etc.)" (ps. 7-8): a. What additional training has SDG&E implemented for personnel pertaining to these covered conductor failure modes? Please list all trainings, the frequency at which trainings are required to be taken, and which personnel are required to take the trainings. Include the trainings used to train personnel for inspections, maintenance, and installation of covered conductor. b. How has SDG&E augmented its installation practices to prevent these covered conductor failure modes? c. What new mitigation strategies has SDG&E adopted to prevent these covered conductor failure modes?	Sara S. Moore	3/24/2022	3/29/2022	3/29/2022	1	No	N/A	N/A	N/A	N/A
160	CalPA	2022-13	CalPA-2022-13	1	*CalPA-2022-13.1*	Regarding the Wildfire Risk Reduction Model (WRRM) discussed in pages 97-108 of your WMP: a) Cal Advocates understands that the "conditional impact" component of WRRM corresponds to consequence in the familiar equation "risk = probability x consequence." Is this correct? b) If the answer is no to part (a), please explain the meaning of "conditional impact" and how it differs from consequence. c) What duration of fire simulation does SDG&E use to model wildfire consequence in WRRM? d) Please explain the reasoning for your choice of fire simulation duration in WRRM. e) Page 104 of your WMP states that "Figure 4-23 displays the resulting fireplain from a simulation with a 15-hour duration." Does this imply that SDG&E uses 15-hour fire spread simulations for WRRM? If not, please explain. f) What assumptions do you make about fire suppression efforts when modeling wildfire consequence in WRRM? g) Describe how you model the effects of fire suppression on fire spread for WRRM.	Aaron Louie	3/25/2022	3/30/2022	3/30/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.3	4.5.1.3 Wildfire Risk Reduction Model Page 97
161	CalPA	2022-13	CalPA-2022-13	2	*CalPA-2022-13.2*	Regarding the WRRM-Ops model discussed in pages 108-114 of your WMP: a) What duration of fire simulation does SDG&E use in WRRM-Ops? b) Please explain the reasoning for your choice of fire simulation duration in WRRM-Ops. c) Page 110 of your WMP states that fire behavior outputs "are only shown for the final time slice of the prediction duration, i.e., hour 8 of an 8-hour duration." Does this imply that SDG&E uses 8-hour fire spread simulations for WRRM-Ops? If not, please explain. d) If you use different durations of fire simulations in WRRM versus WRRM-Ops, please explain why. e) Describe how you model the effects of fire suppression on fire spread for WRRM-Ops.	Aaron Louie	3/25/2022	3/30/2022	3/30/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.4	4.5.1.4 Wildfire Risk Reduction Model – Operations Page 108
162	CalPA	2022-13	CalPA-2022-13	3	*CalPA-2022-13.3*	Regarding the Wildfire Next Generation System (WiNGS) - Planning model discussed in pages 120-129 of your WMP: a) Do you use the same methods and assumptions to model wildfire spread and consequence in WiNGS-Planning as in WRRM? b) If your answer to part (a) is no, why not? c) If your answer to part (a) is no, what duration of fire simulation does SDG&E use to model wildfire consequence in WiNGS-Planning? d) If your answer to part (a) is no, what assumptions do you make about fire suppression efforts when modeling wildfire consequence in WiNGS-Planning? e) If your answer to part (a) is no, describe how you model the effects of fire suppression on fire spread for WiNGS-Planning.	Aaron Louie	3/25/2022	3/30/2022	3/30/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.7	4.5.1.7 Wildfire Next Generation System-Planning Page 120
163	CalPA	2022-13	CalPA-2022-13	4	*CalPA-2022-13.4*	Regarding the WiNGS-Ops model discussed in pages 129-135 of your WMP: a) Page 130 of your WMP identifies PSPS Consequence as a data element in the WiNGS-Ops model. Please provide any workpapers you used to estimate PSPS consequence for this model. b) Table 4-19 (on pages 130-131) of your WMP identifies "Serious Injuries and Fatalities (SIF) per customer-minutes" as a variable in the WiNGS-Ops model. State the numerical value(s) you used for this variable. c) State the basis of your estimate of "Serious Injuries and Fatalities (SIF) per customer-minutes" referenced in Table 4-19 of your WMP. d) Table 4-19 (on pages 130-131) of your WMP identifies "dollars per affected customer" as a variable in the WiNGS-Ops model. State the numerical value(s) you used for this variable. e) State the basis of your estimate of "dollars per affected customer" referenced in Table 4-19 of your WMP.	Aaron Louie	3/25/2022	3/30/2022	3/30/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.8	4.5.1.8 Wildfire Next Generation System-Operations Page 129
164	MGRA	2022-03	MGRA-2022-03	1	*MGRA-2022-03.1*	Please explain technically how SDG&E's WiNGS-Planning model applies a conditional probability or makes any other adjustment to account for the fact the Technosylva consequence model is run on "worst weather days", while the Probability of Ignition model analyzes all ignitions whether they are on worst weather days or not.	Joseph Mitchell on behalf of MGRA	3/28/2022	3/30/2022	3/30/2022		No	N/A	N/A	N/A	N/A

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165	OEIS	2022-08	OEIS-2022-08	1	*OEIS-2022-08.1*	Regarding Technosylva's Risk Associated with Value Exposure (RAVE) module: a. Please provide a list of the community factors evaluated, including the weights assigned to each factor when added to the model. b. What is the current status of SDG&E's implementation of the RAVE module? c. What are SDG&E's conclusions from its analysis of the RAVE module? d. What is SDG&E's timeline for implementation of the RAVE module? e. If the RAVE module is not currently in use, how is SDG&E accounting for community factors in the meantime? In particular, what factors are SDG&E considering regarding vulnerable communities, and how are these factors accounted for in its risk analysis and modeling, including weights?	Sara S. Moore	3/30/2022	4/4/2022	4/4/2022		No	N/A	N/A	N/A	N/A
166	OEIS	2022-08	OEIS-2022-08	2	*OEIS-2022-08.2*	Regarding SDG&E's future undergrounding plans: In SDG&E's 2022 WMP Update, SDG&E states that it is planning to "Significantly increase strategic undergrounding and implementation of covered conductor" (p.146) in the next 10 years. a. Describe what SDG&E means by "significantly." b. Provide an annual estimate of circuit miles planned for undergrounding over the next 10 years. c. Provide an annual estimate of circuit miles planned for covered conductor installation over the next 10 years.	Sara S. Moore	3/30/2022	4/4/2022	4/4/2022		No	5	5 INPUTS TO THE PLAN AND DIRECTIONAL VISION FOR WMP Page 144	5.2	5.2 The Objectives of the Plan Page 144
167	OEIS	2022-08	OEIS-2022-08	3	*OEIS-2022-08.3*	Regarding SDG&E's asset installation dates: In SDG&E's 2022 WMP Update, SDG&E states, "Similarly, the determination of asset installation date for older assets, which is critical for failure rate calculations, requires heavy investigation into documents that are often difficult to manage or access. The PoI models rely on this foundational data infrastructure and are limited by the quality of this data" (p.90). a. What percentage of assets are missing age installation dates within SDG&E's asset inventory? b. Describe how SDG&E's EAMP helps to increase data quality, including in relation to missing asset installation data. c. Describe SDG&E's additional plans and execution timelines for addressing data quality issues, including missing asset installation dates.	Sara S. Moore	3/30/2022	4/4/2022	4/4/2022		No	4	4 LESSONS LEARNED AND RISK TRENDS Page 18	4.5.1.1	4.5.1.1 PoI Model Page 86
168	OEIS	2022-08	OEIS-2022-08	4	*OEIS-2022-08.4*	Regarding SDG&E's asset inspections: a. What percentage of inspections are completed by contractors vs. internally by SDG&E? b. Provide a list of contractors used for asset inspections. c. How does training for contractors performing asset inspections differ from the training for internal SDG&E personnel? d. Provide the find rate for QA/QC of asset inspections performed by contractors. e. Provide documentation and procedures for SDG&E's QA/QC process for asset inspections. f. Provide the number of inspectors that performed detailed asset inspections in 2021. g. Provide the number of detailed asset inspections performed by inspectors in 2021. h. Provide the average circuit mile per inspector per day completed for detailed asset inspections in 2021.	Sara S. Moore	3/30/2022	4/4/2022	4/7/2022		No	N/A	N/A	N/A	N/A
169	MGRA	2022-04	MGRA-2022-04	1	*MGRA-2022-04.1*	In the circuit-segment risk profiles, are the adjustments applied to specific risk factors applied to all ignitions equally or are they applied differently to different drivers? If the latter, how so?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022		No	N/A	N/A	N/A	N/A
170	MGRA	2022-04	MGRA-2022-04	2	*MGRA-2022-04.2*	What is the formula or algorithm by which the historical maximum wind speed is applied to the ignition rate?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022		No	N/A	N/A	N/A	N/A
171	MGRA	2022-04	MGRA-2022-04	3	*MGRA-2022-04.3*	How has this approach been validated? Please provide any internal validation documents with any confidential data removed.	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022		No	N/A	N/A	N/A	N/A
172	OEIS	2022-09	OEIS-2022-09	1	*OEIS-2022-09.1*	Regarding work being performed in the top 20% of risk ranked circuits: Please provide the percentage of work being performed in the top 20% of risk ranked circuits based on risk model output, broken down annually for 2022, 2023, and 2024, for the following: a. All grid hardening initiatives b. Covered conductor c. Undergrounding	Sara S. Moore	5/11/2022	5/16/2022	5/16/2022		No	N/A	N/A	N/A	N/A
173	OEIS	2022-09	OEIS-2022-09	2	*OEIS-2022-09.2*	Regarding Cal Advocates' 2022 WMP DR 03: a.Why do the amounts of risk scores provided in "CONFIDENTIAL2021CalPA-SDGE_DR3_WF_Risk_Scores_Segment_Level_FINAL.xlsx" and "CONFIDENTIAL2021CalPA-SDGE DR03.xlsx" differ? b.Which number should be in the denominator when calculating the top 20% based on risk ranking?	Sara S. Moore	5/11/2022	5/16/2022	5/16/2022	1	No	N/A	N/A	N/A	N/A
174	OEIS	2022-10	OEIS-2022-10	1	*OEIS-2022-10.1*	Regarding SDG&E's repair backlog: a.Please provide an Excel table with the following information in new columns added to the Excel table SDG&E submitted in response to CALADVOCATES-SDGE-2022 WMP-05 Questions 1, 2, and 3: i. Reason for reinspection (if applicable) ii. New due date post-reinspection (if applicable) iii. New prioritization of work order (if it changed) iv. Equipment type b.Also provide a process flow chart illustrating the inspection process or a description of the inspection process from identification of an issue through to resolving it, including the typical timescale. i. Include the length of time between identification to initiation of repair and what triggers initiation of the repair. c.Additionally, identify any interactions with external agencies, including for permitting, including the following for each agency: i. Any barriers to completing work orders due to permitting. ii. A list of all work orders that have been initiated but have been delayed due to permitting. iii. A list of all work orders for which repair has not been initiated due to permitting concerns. iv. A list of all work orders dated in the past year that have been marked as urgent for which a permit was required. (1) Provide the amount of time that elapsed from the identification of the issue to when it became urgent. (2) Note whether the repair was initiated prior to it being marked as urgent.	Sara S. Moore	5/31/2022	6/3/2022	6/3/2022 & 6/8/2022	2	No	N/A	N/A	N/A	N/A

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175	OEIS	2022-11	OEIS-2022-11	1	*OEIS-2022-11.1*	Regarding SDG&E's response to Maturity Survey question A.IV.d ("How are ignition risk reduction impact assessment tool estimates assessed?" SDG&E response for present [2022]: "iv. Independent expert assessment, supported by historical data of incidents and near misses"): a. Please provide the latest independent expert assessment referenced in SDG&E's response to Maturity Survey question A.IV.d. i. If the assessment is not available to share in a report format: (1) Explain what assessment was performed. (2) Describe who performed the assessment. (3) Summarize the findings from the assessment. (4) Explain how SDG&E addressed any findings. ii. If the response to this data request includes confidential information, please provide both a confidential version through the appropriate avenue (submit a confidential e-filing to the docket #2022-WMP-DRs) and a redacted public version as an attachment to the response to this data request. b. How frequently does SDG&E perform these independent expert assessments?	Sara S. Moore	6/14/2022	6/17/2022	6/17/2022		No	N/A	N/A	N/A	N/A
176	OEIS	2022-11	OEIS-2022-11	2	*OEIS-2022-11.2*	Regarding the Risk Assessment and Mapping Maturity Survey response that includes reference to a specific confidence level: a. Please provide substantiation for SDG&E's response to the following Maturity Survey question, which references a specific confidence level: i. (A.II.e) What confidence interval, in percent, does the utility use in its wildfire risk assessments? (SDG&E response for present: >80%)	Sara S. Moore	6/14/2022	6/17/2022	6/17/2022		No	N/A	N/A	N/A	N/A
177	OEIS	2022-12	OEIS-2022-12	1	*OEIS-2022-12.1*	5.3.5.1 Vegetation Management-Community Engagement – In its 2020 WMP, SDG&E states, SDG&E has participated in several community town hall meetings centered in communities in its service territory that are subject to enhanced vegetation management operations."1 Regarding this statement, provide the following: 1. The total number of community town hall meetings held in 2020.	Gary Candelas	6/24/2022	6/30/2022	6/30/2022		No		N/A	N/A	N/A
178	OEIS	2022-12	OEIS-2022-12	2	*OEIS-2022-12.2*	5.3.5.1 Vegetation Management-Community Engagement- In its 2020 WMP, SDG&E states, "SDG&E Vegetation Management personnel participate in Company-led tours of its Emergency Operations Center."2 Regarding this statement, provide the following: 2. The total number of company-led tours of its emergency operations center in 2020.	Gary Candelas	6/24/2022	6/30/2022	6/30/2022		No		N/A	N/A	N/A
179	OEIS	2022-12	OEIS-2022-12	3	*OEIS-2022-12.3*	5.3.5. Detailed Inspection of Vegetation Around Distribution Infrastructure-Tree Trimming- In its 2020 WMP, SDG&E states, "During the pre-inspection activity, trees in proximity to SDG&E's power lines are inspected and evaluated, and the tree condition in the database is updated accordingly. Each tree is visited on an annual cycle."3 Regarding this statement, provide the following: 3. One sample pre-inspection report conducted in 2020	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
180	OEIS	2022-12	OEIS-2022-12	4	*OEIS-2022-12.4*	5.3.5.13 Quality Assurance/Quality Control of Inspections- In its 2020 WMP, SDG&E states, "SDG&E utilizes a third-party contractor to perform quality assurance audits of all its vegetation management activities."4 Regarding this statement, provide the following: 4. One sample audit report for each of SDG&E vegetation management activities conducted by the third-party contractor.	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
181	OEIS	2022-12	OEIS-2022-12	5	*OEIS-2022-12.5*	5.3.5.14 Recruiting and Training of Vegetation Management Personnel- In its 2020 WMP, SDG&E states, "SDG&E does require all its contractors to perform annual training to include hazard tree assessments, customer engagement, fire preparedness, and environmental regulations."5 Regarding this statement provide the following: 5. the date, time, agenda/presentation and the total number of attendees for the fire preparedness annual training conducted in 2020. a. How many times was this training conducted in 2020	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	4	No		N/A	N/A	N/A
182	OEIS	2022-12	OEIS-2022-12	6	*OEIS-2022-12.6*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure-Hazard Tree Removal and Right Tree-Right Place- In its 2020 WMP, SDG&E states, "SDG&E has a robust tree removal program that targets problematic species such as eucalyptus and palms."6 Regarding this statement provide the following: 6. One inspection report of eucalyptus tree and contractor work order with photographic evidence of removal conducted in 2020.	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
183	OEIS	2022-12	OEIS-2022-12	7	*OEIS-2022-12.7*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure-Hazard Tree Removal and Right Tree-Right Place- In its 2020 WMP, SDG&E states, "SDG&E has a robust tree removal program that targets problematic species such as eucalyptus and palms."6 Regarding this statement provide the following: 7. One inspection report of palm and contractor work order with photographic evidence of removal conducted in 2020. a. Approximately how many palms were removed in 2020	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
184	OEIS	2022-12	OEIS-2022-12	8	*OEIS-2022-12.8*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure-Hazard Tree Removal and Right Tree-Right Place- In its 2020 WMP, SDG&E states, "SDG&E performs additional off-cycle patrols of select species (such as bamboo and Century plants) that have fast and unpredictable growth rates and are difficult to manage near power lines."7 Regarding this statement provide the following: 8. One inspection report for both bamboo and century plants conducted in 2020 a. Approximately how many bamboo and century plants were inspected in 2020	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
185	OEIS	2022-12	OEIS-2022-12	9	*OEIS-2022-12.9*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure-Hazard Tree Removal and Right Tree-Right Place- In its 2020 WMP, SDG&E states, "Certified Arborists trained in hazard tree evaluation perform these inspections."8 Regarding this statement, provide the following: 9. One inspection report of a 'prioritized' 9hazard tree evaluation performed by a certified arborist conducted in 2020. a. Approximately how many hazards tree evaluation were conducted in 2020	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A

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186	OEIS	2022-12	OEIS-2022-12	10	*OEIS-2022-12.10*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure- Hazard Tree Removal and Right Tree-Right Place-In its 2020 WMP, SDG&E states, "SDG&E will develop a customer survey initiative to assess the overall success of its tree replacement program."10 Regarding this statement, provide the following: 10. One copy of a survey filled out by a customer's assessing SDG&E tree replacement program in 2020.	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	1	No		N/A	N/A	N/A
187	OEIS	2022-12	OEIS-2022-12	11	*OEIS-2022-12.11*	5.3.5.16 Removal and Remediation of Trees with Strike Potential to Electric Infrastructure- Hazard Tree Removal and Right Tree- Right Place- In its 2020 WMP, SDG&E states, "A thirdparty contractor performs an audit on 100% of all trees removed to ensure work was completed per scope and contract, including an assessment of the efficacy of stump treatment application and facility protection."11 Regarding this statement, provide the following: 11. An excel file containing columns A through E as shown in the sample table below, which details the completion 100% audit of all trees removed by third-party contractor in 2020. a. One sample assessment of the efficacy of stump treatment application and facility protection a) Column A must list the tree identification number b) Column B must provide the date tree was removed c) Column C must provide the contractor's name who performed removal d) Column D must provide the date of audit e) Column E must provide the contractor's name performing the audit	Gary Candelas	6/24/2022	6/30/2022	6/30/2022	3	No		N/A	N/A	N/A