

40	CaPA	Set WMP-03	CaPA_Set WMP-03	9	CaPA_Set WMP-03_03	<p>P. 536 of PG&E's WMP states, "The primary target for secondary patios is HTFD and HFRA for exceptions and additional areas are included to appropriately address vegetation-associated risks."</p> <p>2023 states, "Beginning in 2023, PG&E will use the annual review of AOC, that we committed to doing in 2021, PG&E-23-06, to identify areas subject to Second Patios."</p> <p>It has a difference between "secondary patios" and "Second Patios" in the two passages quoted above? (i.e. does the exception differ?)</p> <p>In 2022, did PG&E's secondary patrol cover the entire HTFD? Please explain your answer.</p> <p>In 2023, will PG&E's secondary patrol cover the entire HTFD? Please explain your answer.</p> <p>Will PG&E be planning to cover fewer circuit miles with second patios in 2023 than were covered in 2022? Please explain your answer.</p>	<p>As in the paragraph on page 103 outlined above, the term "secondary patios" is used synonymously with the use of "Second Patios" and both terms refer to Second Patios. "As second patios regulatory requirements and/or PG&E VM Second Patrol (HTFD) (2023-03), the 1st Second Patrol program patios are not subject to the same requirements as patios that are not on overhead primary and secondary distribution facilities. The primary target for secondary patios is HTFD and HFRA for exceptions and additional areas as included to appropriately address vegetation-associated risks." In the paragraph on page 267, the term "Second Patios" also refers to Second Patios.</p> <p>In 2023 PG&E's secondary patrol covered the entire HTFD area, with the exception of those areas that were impacted due to various constraints. PG&E can be constrained by environmental delays, individual customer issues, permitting and construction delays, weather conditions, active wildfires, and accessibility of the area where system inspections have been identified. If the response to the question above is "No," please explain why. PG&E will continue to review HTFD areas to ensure that all areas are inspected due to various constraints. PG&E can be constrained by environmental delays, individual customer issues, permitting and construction delays, weather conditions, active wildfires, and accessibility of the area where system inspections have been identified. If the constrained work is compliance related, we will work through our VM processes to ensure the conditions and ensure the work. This would include everything from securing a permit to re-scheduling work being to field conditions.</p> <p>Second Patrol areas for 2023 will be the same as 2022 but will be evaluated for potential modifications starting in 2024.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	0	NA	Vegetation Management and Inspections	Distribution Second Patrol	
41	CaPA	Set WMP-03	CaPA_Set WMP-03	10	CaPA_Set WMP-03_010	<p>P. 342 of PG&E's WMP states, "In July 2021, PG&E launched a multi-year program to underground 10,000 distribution circuit miles in high wildfire risk areas." (i.e. does the exception differ?)</p> <p>Since the July 2021 announcement of the 10,000-mile undergrounding program, has PG&E performed any studies to determine whether the planned scope of 10,000 circuit miles should be revised?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>If the answer to part (a) is no, please explain why not.</p> <p>Does PG&E plan to perform any studies or analyses during the 2023-2025 WMP period to determine whether 10,000 circuit miles is still appropriate scope to target for undergrounding?</p> <p>If the answer to part (a) is yes, please describe the planned scope and timing of such studies.</p> <p>If the answer to part (b) is no, please explain why not.</p>	<p>Yes, PG&E determined that undergrounding approximately 10,000 miles will reduce approximately 70 percent of risk in the HTFD. We initially used the output from our Wildfire Distribution Risk Model (WDRM) version 2 to identify the 10,000 miles. We then subsequently refined that list to the correct number of miles and the July 2021 announcement using the output from our updated WDRM v3.</p> <p>PG&E used the attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097.xlsx" for the requested information on the WDRM v3 analysis. Based on the WDRM v3, the top 20% risk-ranked circuit segments are represented by 277 circuit segments. (Shown in red in WDRM v3). The cumulative estimated risk improvement is 8.9% with a cumulative risk reduction of approximately 75%. Please see attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097.xlsx" for the requested information on the WDRM v3 analysis. Based on WDRM v3, PG&E is 10,000 underground circuit miles is represented by approximately 8,100 overhead miles, which is also equal to approximately 75% risk reduction.</p> <p>If not applicable, please see the response to subparts (a) and (b) above.</p> <p>PG&E's undergrounding plan will continue to evolve based on changing risk. We plan to update our risk model annually. We will continue to review the information on our updated models which will contribute to our threat/understanding of the risk and the scope of the work. Additionally, we will update our future plans in our detailed 2024 filing which we plan to file later in 2023.</p> <p>Yes, please see the response to subpart (b).</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	2	NA	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
42	CaPA	Set WMP-03	CaPA_Set WMP-03	11	CaPA_Set WMP-03_011	<p>If 260 of PG&E's WMP states, "On average, 1 to 2.1 GJ of wild miles to replace 1 GJ of wire. However, if the multiplier can be 2-3 times greater."</p> <p>Does PG&E target a 10:1 ratio of undergrounding miles to the number of GH circuit miles to be moved underground, or the number of underground circuit miles to be installed?</p>	<p>The 10:000 mile target refers to the number of miles of underground conductor and aligned with the assumption of removing approximately 8,100 overhead circuit miles.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-23-04 - Revise Process of Prioritizing Wildfire Mitigations
43	CaPA	Set WMP-03	CaPA_Set WMP-03	12	CaPA_Set WMP-03_012	<p>What is PG&E's current forecast cost per circuit-mile for undergrounding projects completed in the second half of 2023?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p>	<p>PG&E did not provide a forecast cost per circuit-mile for undergrounding projects completed specifically in the second half of 2023 in its WMP. However, PG&E did provide a target cost per circuit-mile for the entire 2023-2025 undergrounding program through the 2023 DRG (P&E) (A.1.0K-021).</p> <p>NAME OF TABLE: WDRM v3 - PG&E'S ORIGINAL AND ADJUSTED AVERAGE UNIT COST FORECAST (MILLIONS)</p> <p>PG&E did not forecast a target value based on a strategy to reduce unit costs over time that is not based on a specific technology.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	0	NA	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
44	CaPA	Set WMP-03	CaPA_Set WMP-03	13	CaPA_Set WMP-03_013	<p>What is PG&E's forecast RSE for undergrounding completed in the second half of 2023?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p>	<p>PG&E does not forecast an RSE for undergrounding projects planned to be completed specifically in the second half of 2023 in its WMP. However, in the 2023 DRG, PG&E provided an RSE of 5.4 in 2025 for undergrounding system hardening in 2.1-2.0-021. (Table PG&E - Chapter 13 - 2.4, Table 9-1)</p> <p>PG&E used the attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097.xlsx" for the requested information on the RSE Results. We did not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a). Concomitantly, results to support the RSE Results are based on the following table to compare the RSE.</p> <p>1-Program Cost - Identifies the programmatic cost per year across the lifecycle of the WDRM Risk.</p> <p>2-Program Cost - Identifies the programmatic effectiveness by driver and subdriver for each mitigation.</p> <p>3- Eff. Fire Programs - Identifies the programmatic effectiveness by driver and subdriver for each mitigation.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	1	NA	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
45	CaPA	Set WMP-03	CaPA_Set WMP-03	14	CaPA_Set WMP-03_014	<p>What is PG&E's current forecast cost per circuit-mile for covered conductor projects completed in the second half of 2023?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p>	<p>PG&E does not forecast a cost per circuit-mile for covered conductor projects in its WMP. However, PG&E did provide a cost of \$1.4 per mile per mile for covered conductor in 2023 in its DRG (P&E) (A.1.0K-021). (Table PG&E - Chapter 13 - 2.4, Table 9-1)</p> <p>PG&E used the attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097.pdf" for the requested information.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	0	NA	Grid Design and System Hardening	Traction Overhead Hardening - Transmission Conductor and Distribution	
46	CaPA	Set WMP-03	CaPA_Set WMP-03	15	CaPA_Set WMP-03_015	<p>What is PG&E's forecast RSE for covered conductor system hardening completed in the second half of 2023?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>Question 1:</p>	<p>PG&E does not forecast an RSE for covered conductor system hardening for the second half of 2023 in its WMP. However, in the 2023 DRG, PG&E provided an RSE of 5.8 in 2025 for overhead system hardening (A.1.0K-021). Exhibit PG&E - Chapter 13 - 2.4, Table 9-1</p> <p>PG&E used the attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097.xlsx" for the requested information.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	0	NA	Grid Design and System Hardening	Traction Overhead Hardening - Transmission Conductor and Distribution	
47	CaPA	Set WMP-03	CaPA_Set WMP-03	16	CaPA_Set WMP-03_016	<p>In response to data request CaPaDocArea-PGE-2023-WMP-03_016, PG&E states, "The primary approach for wildfire risk is not prevention but mitigation. (1) Top 20 percent circuit segments based on the 2022 WDRM v3 and (2) the Wildfire Family Ethnology (WFE) (wildfire circuit segments based on the 2022 WDRM v3 and considering undergrounding feasibility."</p> <p>Provides an Equal table of the WFE-ranked circuit segments based on the 2022 WDRM v3, as described above, for each circuit segment, provide the following attributes as columns:</p> <p>a) Circuit name</p> <p>b) Circuit ID number</p> <p>c) Circuit segment name</p> <p>d) WDRM v3 risk score</p> <p>e) Feasibility factor</p> <p>f) WFE score as defined on p. 965 of PG&E's WMP or WFE metrics</p>	<p>Please see attachment "WMP-Down032023_DR_CaPaDocArea_009-001A6097_CONF.pdf" for the requested information from data request CaPaDocArea-PGE-2023-WMP-03_016, question 7, projects identified for possible undergrounding in the 2023-2025 WMP.</p> <p>Please see column M that shows the applicable risk model used for scoring the project (WDRM v3, WDRM v5).</p> <p>1 Please see column A of the attachment.</p> <p>2 Please see column B of the attachment.</p> <p>3 Please see column C of the attachment.</p> <p>4 Please see column D of the attachment.</p> <p>5 Please see column E of the attachment.</p> <p>6 Please see column F of the attachment.</p> <p>7 Please see column G of the attachment.</p> <p>8 Please see column H of the attachment.</p>	Holly Waterman	4/4/2023	4/7/2023	4/7/2023	1	NA	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy	
48	CaPA	Set WMP-10	CaPA_Set WMP-10	1	CaPA_Set WMP-10_01	<p>Table 8-3 on p. 322 of PG&E's WMP states that PG&E will make capable for Down Conductor Detection (DCD) 400 devices in 2023, 400 devices in 2024, and 250 devices in 2025.</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b)?</p>	<p>DCD is capable of warning from the device to "yard of line," therefore we are able to provide DCD protection on most high-voltage high-voltage lines by the yard of line by the end of 2023. Best capabilities for DCD in 2024 and 2025, including the EPSS Buffer Area. The number of devices decreases in 2024 and 2025 because the line miles covered in 2024 and 2025 include EPSS Buffer Area. The number of devices decreases in 2024 and 2025 because the line miles covered in 2024 and 2025 include EPSS Buffer Area.</p> <p>1) We anticipate approximately 21,000 circuit miles in HFRA will be protected by DCD at the end of 2025.</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Design, Operations, and Maintenance	Targets	
49	CaPA	Set WMP-10	CaPA_Set WMP-10	2	CaPA_Set WMP-10_02	<p>Table 8-6 on p. 328 of PG&E's WMP shows a forecast reduction in the number of EPSS events of one to two percent annually from 2022 to 2025.</p> <p>What factors does PG&E expect to contribute to the reduction in the number of EPSS events discussed above? (Why is PG&E's forecast reduction in the number of EPSS events year-over-year since the 2022-2023 period)?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b)?</p>	<p>For 2023, factors contributing to the reduction in the number of EPSS related outages were based on actions to install Overhead Line Reclosers (OLR) and Fuse Saver (FS) on the highest impacted primitive zones to reduce the reliability impact. These will be installed in locations that are within the HFRA as a project experienced within the HFRA. The planned benefits will provide reliability benefits on low line miles within the scope of the EPSS program. PG&E will also undertake reliability improvement projects to reduce outage frequency (O2O) on these critical zones. O2O is an extension of the current number of mitigation work was enabled in 2023. This will include proactive vegetation management work, increased vegetation management work, and increased vegetation management work, as needed based on identified vegetation risk. Annual vegetation work will be performed on O2O as expected under or other critical zones in 2022.</p> <p>1) With only one year of EPSS protection performance to review, we made a conservative estimate of the reliability improvement that could be realized based on the planned installation and mitigation activities.</p> <p>2) PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b).</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Design, Operations, and Maintenance	Performance Metrics Identified by the Electrical Corporation	
50	CaPA	Set WMP-10	CaPA_Set WMP-10	3	CaPA_Set WMP-10_03	<p>Does PG&E forecast a change in the average duration of EPSS events during the 2023-2025 period?</p> <p>If the answer to part (a) is no, provide the expected average duration of EPSS events for 2023, 2024, and 2025.</p> <p>If the answer to part (a) is yes, explain why.</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b)?</p>	<p>NA</p> <p>PG&E does not forecast a change in the average duration of EPSS events during the 2023-2025 period. We have been working the target of four hours to 210 minutes in 2023.</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b).</p> <p>DT-FAST is an integrated system of advanced and technologies that are established and available on the market working together to mitigate wildfire risk. Testing focused on validating sensor functionality in wildfire and utility user scenarios, incorporating functional testing, environmental testing, and on-beam evidence testing. Learning sets are immediately applied to customer configuration.</p> <p>Key learning from the hardware installation and testing include:</p> <p>1) Sensors are installed over 25 devices and tested their intended functionality for accuracy and reliability. These are the 100s of tests performed.</p> <p>2) Multiple testing scenarios were conducted to ensure consistency and reliability of sensor measurements by repeating measurements multiple times and checking the results for consistency. This test criterion ensures that the sensing device provides accurate and repeatable readings.</p> <p>3) Severity testing evaluates the sensor's ability to detect and respond to small changes in operating inputs. This is achieved by varying the sensor's operating range by evaluating the performance across its specified range of operation.</p> <p>4) Range testing evaluates the sensor's operating range by evaluating the performance across its specified range of operation. This testing is performed by varying the sensor's operating range and measuring the sensor's ability to respond consistently in real-world operating conditions. This can help ensure the sensor is robust across its operating range.</p> <p>5) Battery testing evaluates the sensor's ability to operate for extended periods under normal operating conditions. This can help identify any early or abnormal in-sensor readings.</p> <p>6) Environmental testing evaluates the sensor's ability to operate in various environmental conditions that may affect its operation such as temperature, humidity, vibration, and electromagnetic interference. This can help ensure the sensor is robust across its operating range.</p> <p>7) Failure testing evaluates the sensor's response to failure conditions, such as sensor malfunction, signal loss, or power loss, and verify the sensor's behavior is appropriate and safe during such scenarios.</p> <p>8) The test objectives to test multiple brands of similar devices to verify vendor specifications on operating range and performance. During our testing, approximately 10% failed testing successfully. Keep in mind, none of these devices were intentionally designed to be installed on 15kV electric lines. We think most failed due to being installed to high-voltage EPSS (Electric Negative Pole) distribution, an environmental condition (i.e., temperature, humidity, dust, rain, fog, vibration). Based on the extensive testing conducted before field installation (lab test environment) and on-beam evidence testing, and the lessons learned from these results, it has been determined that using utility user manufacturer specifications may not be sufficient. It is recommended to consider reworking of the equipment based on the specific application requirements in the specific environment to ensure reliable performance. For example, a manufacturer's maximum operating temperature may be 50°C, but the maximum ambient temperature in the field may be 60°C. The maximum ambient temperature may be 50°C, but the maximum ambient temperature in the field may be 60°C. This is the discrepancy between the manufacturer's maximum operating temperature and the maximum ambient temperature in the field.</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Design, Operations, and Maintenance	Performance Metrics Identified by the Electrical Corporation	
51	CaPA	Set WMP-10	CaPA_Set WMP-10	4	CaPA_Set WMP-10_04	<p>P. 368 of PG&E's WMP states, with regard to DT-FAST:</p> <p>a) A prototype test bed installation was completed on a 110kV line in Malibu and a second pilot in Santa Cruz in 2021. The valuable lessons learned have been applied to optimize designs, increase reliability, and reduce false alarms to limit the number of false alarms. PG&E is currently testing DT-FAST on 110kV lines in Malibu and Santa Cruz. PG&E will continue to work through the patent examination process, which steps down PG&E's role to take in 2023 to 2025 to DT-FAST.</p> <p>When does PG&E expect to begin additional DT-FAST installations?</p> <p>Through the end of 2022, how much has PG&E spent on DT-FAST?</p> <p>What portion of your response to part (b) is related to the patent application and examination process?</p> <p>DT-FAST are your forecast costs for DT-FAST through the 2022-2025 period?</p> <p>What portion of your response to part (c) is related to the patent application and examination process?</p>	<p>NA</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (c).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (d).</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Design and System Hardening	Emerging Grid Hardening Technology Installations and Plans	
52	CaPA	Set WMP-10	CaPA_Set WMP-10	5	CaPA_Set WMP-10_05	<p>P. 369 of PG&E's WMP states, "If deployed, DT-FAST could have a significant impact on wildfire risk within the HFRA."</p> <p>Does PG&E quantify the phrase "a significant impact on wildfire risk" in the above quote.</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p>	<p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (c).</p> <p>PG&E does not have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (d).</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Design and System Hardening	Emerging Grid Hardening Technology Installations and Plans	
53	CaPA	Set WMP-10	CaPA_Set WMP-10	6	CaPA_Set WMP-10_06	<p>P. 464 of PG&E's WMP states, "In 2022, we reduced the Customer Average Interruption Duration Index (CAIDI) and Customer Experience (CX) (Customer Outage (CSO)) for customers served by EPSS-capable lines when compared to data from the 2021 program pilot."</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (a)?</p> <p>Does PG&E have any available studies, analyses, reports, requests, or responses pertinent to your answer to part (b)?</p>	<p>Please see "WMP-Down032023_DR_CaPaDocArea_010-000A6097.xlsx"</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	1	NA	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk	
54	CaPA	Set WMP-10	CaPA_Set WMP-10	7	CaPA_Set WMP-10_07	<p>P. 464 of PG&E's WMP states, "By the end of 2022, we responded to 80 percent of outages on EPSS-enabled lines within 45 minutes, responding on average within 42 minutes."</p> <p>The statement above refers to results achieved "by the end of 2022." What time period is this data drawn from? (i.e., does the 42-minute figure is an average of response times in what period or time?)</p>	<p>The 42-minute figure is an average of the response time to all outages on EPSS-enabled circuits in 2022 since EPSS Outage Response Time tracking began. The timeframe covered is May 23, 2022 - December 31, 2022.</p>	Holly Waterman	4/4/2023	4/10/2023	4/10/2023	0	NA	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk	

66	TURN	002	TURN_002	3	TURN_002_03	Please provide the attachment to the responses to CalEIR/Access/PCAE-2022/0018/01-001, which PG&E has labeled as confidential.	The attachment to CalEIR/Access/PCAE-2022/0018/01-001 was identical to the attachment provided for CalEIR/Access/PCAE-2022/0018/01-001, so please refer to the attachment sent with AWR02 of this data request response.	Tom Long	4/4/2023	4/7/2023	4/7/2023	https://www.pge.com/cal_eir_attachments/turn/turn_002_03_001.pdf	0	NA	2022 WMP Section 7.3.1.2	Vegetation Management and Inspections	Enhanced Vegetation Management
67	TURN	002	TURN_002	4	TURN_002_04	Please provide the 2023-2026 Undergrowth Workplan referenced on page 911 of PG&E's WMP and in Section 279, which indicates that PG&E has labeled the Workplan confidential.	Please see "WMP-Discovr/2023_DR_TURN_002-000A484601_CONF_Abr" for the requested information.	Tom Long	4/4/2023	4/7/2023	4/7/2023	https://www.pge.com/cal_eir_attachments/turn/turn_002_04_001.pdf	1	Yes	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-2016 - Progress and Update on Undergrowth and Risk Prevention
68	CPUC - SPD (Safety Policy Division)	002	CPUC - SPD (Safety Policy Division)_002	1	CPUC - SPD (Safety Policy Division)_002_01	Please provide the 2023-2026 Undergrowth Workplan referenced on page 911 of PG&E's WMP and in Section 279, which indicates that PG&E has labeled the Workplan confidential.	The CONFIDENTIAL attachment in being provided pertains to the confidentiality declaration "SPD147403_ConfidentialityDeclaration.pdf". The CONFIDENTIAL attachment in being provided pertains to the confidentiality declaration "SPD147403_ConfidentialityDeclaration.pdf". The CONFIDENTIAL attachment in being provided pertains to the confidentiality declaration "SPD147403_ConfidentialityDeclaration.pdf".	Kevin Miller	4/4/2023	4/5/2023	4/4/2023	https://www.pge.com/cal_eir_attachments/cruc/cruc_002_01_001.pdf	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-2016 - Progress and Update on Undergrowth and Risk Prevention
69	OEIS	001	OEIS_001	1	OEIS_001_01	Regarding PG&E's Tree Assessment Tool (TAT): a. Considering PG&E's assessment of the Enhanced Vegetation Management (EVM) program: i. How is PG&E using and planning to use its TAT? ii. What are the program goals, if any, listed in Section 8.2.2 will use the TAT? iii. If PG&E is not using its TAT, why has it discontinued its use?	The TAT was developed in 2012 to assess the risk of tree failure to overhead power lines. The TAT was not designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_01_001.pdf	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
70	OEIS	001	OEIS_001	2	OEIS_001_02	Regarding PG&E's Targeted Tree Services (TTS) Study in its Tree Assessment Tool (TAT) (On page 794 of the 2022 WMP Update, PG&E states "The results of our Targeted Tree Services Study in conjunction with improving the Tree Assessment Tool (TAT) allow PG&E to more accurately identify and mitigate trees at elevated risk of failure, providing better visibility into risk." On page 879 of its 2022-2026 WMP, PG&E states "We have evaluated the recommendations in the final Targeted Tree Services report and continue to adjust them and consider our forward actions." a. Since the Target Tree Services study was completed on March 31, 2022, what actions has PG&E taken and will implement the new recommendations? Respond specifically to each of the new recommendations. b. What improvements have been and will be made to the TAT in response to these recommendations and generally (i.e., not in response to these recommendations)? c. If PG&E is not using or planning to use its TAT, why has it discontinued its use? If not, how is the TAT being used and to what end use it used? If so, what are those changes/improvements?	The TAT was developed in 2012 to assess the risk of tree failure to overhead power lines. The TAT was not designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_02_001.pdf	0	NA	8.2.3.6	Vegetation Management and Inspections	High-Risk Species
71	OEIS	001	OEIS_001	3	OEIS_001_03	Regarding PG&E's Focused Tree Inspections pilot: a. Describe the current state of development for the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529) and the expected timeline for operationalization. b. Detail the criteria PG&E has and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). c. What standards, processes, procedures, and tools are vegetation management personnel assigned will use to perform tree risk assessments for this pilot? d. Will PG&E be using its One VM Tool for reworking for this pilot? If not, what system will PG&E use for reworking for this pilot? e. Where is PG&E conducting its Focused Tree Inspections pilot? If PG&E has not yet begun the pilot, when will PG&E be conducting its Focused Tree Inspections pilot? f. How many circuit miles are in scope for the pilot? g. Was the pilot area previously in scope for Enhanced Vegetation Management (EVM)? h. For each Circuit Protection Zone (CPZ) in the pilot area provide the: i. Tree Weighing Risk Score from PG&E's most recent version of its EVM Tree-Weighted Prioritization List. ii. Risk Trenches i. Does PG&E have a plan to continue its Focused Tree Inspections assuming the pilot is a success? If so, detail those plans, including how many circuit miles PG&E plans to inspect under this program in 2023 and 2024. j. Provide a GIS layer of the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). As applicable, provide the following attributes for each polygon: k. Number of overhead circuit miles within the polygon l. Overhead Utility Risk m. Ignition Risk n. PSPS Risk o. Contact from Vegetation Likelihood of Ignition	The TAT was developed in 2012 to assess the risk of tree failure to overhead power lines. The TAT was not designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_03_001.pdf	3	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
71	OEIS	001	OEIS_001	3a)	OEIS_001_03a)	Regarding PG&E's Focused Tree Inspections pilot: a. Describe the current state of development for the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529) and the expected timeline for operationalization. b. Detail the criteria PG&E has and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). c. What standards, processes, procedures, and tools are vegetation management personnel assigned will use to perform tree risk assessments for this pilot? d. Will PG&E be using its One VM Tool for reworking for this pilot? If not, what system will PG&E use for reworking for this pilot? e. Where is PG&E conducting its Focused Tree Inspections pilot? If PG&E has not yet begun the pilot, when will PG&E be conducting its Focused Tree Inspections pilot? f. How many circuit miles are in scope for the pilot? g. Was the pilot area previously in scope for Enhanced Vegetation Management (EVM)? h. For each Circuit Protection Zone (CPZ) in the pilot area provide the: i. Tree Weighing Risk Score from PG&E's most recent version of its EVM Tree-Weighted Prioritization List. ii. Risk Trenches i. Does PG&E have a plan to continue its Focused Tree Inspections assuming the pilot is a success? If so, detail those plans, including how many circuit miles PG&E plans to inspect under this program in 2023 and 2024. j. Provide a GIS layer of the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). As applicable, provide the following attributes for each polygon: k. Number of overhead circuit miles within the polygon l. Overhead Utility Risk m. Ignition Risk n. PSPS Risk o. Contact from Vegetation Likelihood of Ignition	The TAT was developed in 2012 to assess the risk of tree failure to overhead power lines. The TAT was not designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_03a_001.pdf	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
71	OEIS	001	OEIS_001	3b)	OEIS_001_03b)	Regarding PG&E's Focused Tree Inspections pilot: a. Describe the current state of development for the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529) and the expected timeline for operationalization. b. Detail the criteria PG&E has and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). c. What standards, processes, procedures, and tools are vegetation management personnel assigned will use to perform tree risk assessments for this pilot? d. Will PG&E be using its One VM Tool for reworking for this pilot? If not, what system will PG&E use for reworking for this pilot? e. Where is PG&E conducting its Focused Tree Inspections pilot? If PG&E has not yet begun the pilot, when will PG&E be conducting its Focused Tree Inspections pilot? f. How many circuit miles are in scope for the pilot? g. Was the pilot area previously in scope for Enhanced Vegetation Management (EVM)? h. For each Circuit Protection Zone (CPZ) in the pilot area provide the: i. Tree Weighing Risk Score from PG&E's most recent version of its EVM Tree-Weighted Prioritization List. ii. Risk Trenches i. Does PG&E have a plan to continue its Focused Tree Inspections assuming the pilot is a success? If so, detail those plans, including how many circuit miles PG&E plans to inspect under this program in 2023 and 2024. j. Provide a GIS layer of the pilot area, PG&E's Areas of Concern (AOC), and "polygons" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). As applicable, provide the following attributes for each polygon: k. Number of overhead circuit miles within the polygon l. Overhead Utility Risk m. Ignition Risk n. PSPS Risk o. Contact from Vegetation Likelihood of Ignition	The TAT was developed in 2012 to assess the risk of tree failure to overhead power lines. The TAT was not designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program. The TAT was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_03b_001.pdf	2	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
72	OEIS	001	OEIS_001	4	OEIS_001_04	Regarding PG&E's Tree Removal Inventory (TRI) page 528, PG&E states that it will "remove, or in respect these identified in the EVM program." a. Will PG&E be removing trees that are identified as high risk? b. Will PG&E be removing trees that are identified as high risk? c. Will PG&E be removing trees that are identified as high risk? d. Will PG&E be removing trees that are identified as high risk?	The TRI was developed in 2012 to assess the risk of tree failure to overhead power lines. The TRI was not designed to be used as a risk assessment tool for the EVM program. The TRI was designed to be used as a risk assessment tool for the EVM program. The TRI was designed to be used as a risk assessment tool for the EVM program.	Colin Long	4/5/2023	4/10/2023	4/10/2023	https://www.pge.com/cal_eir_attachments/oeis/oeis_001_04_001.pdf	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory

104	CAIPA	Set WMP-12	CAIPA_Sat_WMP-12_2(a)	2(a)	CAIPA_Sat_WMP-12_2(a)	<p>Regarding Table 9-2 (List of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the column "Measure Taken or Planned to Be Taken to Reduce the Need for and Impact of Future PSPPs of Circuit" is blank for the following transmission circuit Entry Numbers: 200, 227 and 271. For each of the above Entry Numbers, please explain why "Measure Taken or Planned to Be Taken to Reduce the Need for and Impact of Future PSPPs of Circuit" is blank. If for each of the above PG&E entries the blank is planned to be taken, we have below our explanation. Responses during the 2023-2025 WMP period to reduce the need for impact of future PSPPs on the circuit. For each item in part (b) below PG&E please explain to us why you proposed to reduce the need for an impact of future PSPPs on that circuit, please state the basis for this decision.</p>	<p>We have updated our List of Frequently De-energized Circuits based on the errors found on our review. The Entry Numbers above may not reflect the latest circuits that are mitigated by PPSPs protocols. Please see attachment: WMP/Resource2023_DM_CableAccess_21-2-2001Supp/Atch01.xlsx for the updated List of Frequently De-energized Circuits.</p> <p>a) After updating on table, one transmission line has no PSPP Mitigation Measures taken or planned to be taken. This line has been marked with a "0" for the PSPP Mitigation Measures section. We will be taking the necessary action to ensure that a blank is not used for this line.</p> <p>b) Other than mitigation stated in the Frequently De-energized Circuit, PG&E plans to implement in-event alternatives such as remediation of asset and vegetation work, and potential use of temporary generation where possible that could reduce customer impacts.</p>	Holly Wulmeton	4/8/2023	4/1/2023	4/1/2023	https://www.pge.com/gea/globalassets/customer-service/psps/psps-2023-2025-wmp/psps-2023-2025-wmp-12-2-a.pdf	0	NA	5.1.2	Public Safety Power Shutoff	Identification of Frequently De-Energized Circuits
105	CAIPA	Set WMP-12	CAIPA_Sat_WMP-12_3	3	CAIPA_Sat_WMP-12_3	<p>Regarding Table 9-2 (List of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, distribution circuit Entry Numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 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584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 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1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 21</p>											

191	TURN	005	TURN_005	4	TURN_005_04	1	<p>4 For the undergrounding work described in PG&E's 2023-2025 WMP, please describe PG&E's policy concerning undergrounding of service conductors and the removal of poles on which service conductors are attached. To the extent that the determination works by project, please describe the criteria that PG&E uses to decide whether PG&E undergrounds service conductors in a given location.</p>	Tom Long	4/3/2023	4/9/2023	4/9/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
192	TURN	005	TURN_005	5	TURN_005_05	2	<p>2 For the undergrounding work described in PG&E's 2023-2025 WMP, please describe PG&E's policy concerning undergrounding of secondary distribution lines (as opposed to primary lines) and the removal of poles on which secondary lines are attached. To the extent that the determination works by project, please describe the criteria that PG&E uses to decide whether PG&E undergrounds secondary lines in a given location.</p>	Tom Long	4/3/2023	4/9/2023	4/9/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
193	TURN	005	TURN_005	6	TURN_005_06	3	<p>3 For the distribution circuits on which PG&E plans System Hardening undergrounding (as opposed to Rebuild undergrounding) that are built to meet PG&E's WMP (see, e.g., Table PG&E-1.2-2 on page 347), please provide PG&E's best estimate of the percentage of existing poles in the affected circuits (including poles supporting primary lines, secondary lines, and services) that will be removed as a result of the planned System Hardening undergrounding through 2023-2025. Please explain how PG&E made the calculation and provide inputs and assumptions.</p>	Tom Long	4/3/2023	4/9/2023	4/9/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
194	TURN	005	TURN_005	7	TURN_005_07	4	<p>4 With respect to the values for 2023-2025 in the column for Estimated System Hardening Undergrounding Miles in Table PG&E-1.2-2 on page 347 of PG&E's 2023-2025 WMP, after each year, please provide PG&E's estimate of the overhead circuit miles that will be replaced and explain how this estimate was determined.</p> <p>5 For the figures provided in response to subject "4", please provide an estimated breakdown of the overhead circuit miles replaced by: primary lines, secondary lines, and services.</p>	Tom Long	4/3/2023	4/9/2023	4/9/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
195	TURN	005	TURN_005	8	TURN_005_08	5	<p>5 With respect to the values for 2023-2025 in the column for Estimated Butte County Reliability Miles in Table PG&E-1.2-2 on page 347 of PG&E's 2023-2025 WMP, after each year, please provide PG&E's estimate of the overhead circuit miles that will be replaced and explain how this estimate was determined.</p> <p>6 For the figures provided in response to subject "5", please provide an estimated breakdown of the overhead circuit miles replaced by: primary lines, secondary lines, and services.</p>	Tom Long	4/3/2023	4/9/2023	4/9/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
196	CaPA	Set WMP-16	CaPA_Set WMP-16	1	CaPA_Set WMP-16_01	1	<p>Regarding PG&E's SCADA Underground (UG) Switches:</p> <p>(a) Please explain PG&E's operating procedure for operating a SCADA UG switch to engage and de-energize a circuit or circuit segment.</p> <p>(b) Please explain PG&E's written procedures or other documentation related to your response to part (a).</p> <p>(c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a normally closed switch, the switch is returned to its normally closed position during switching.</p> <p>(d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a normally open switch, the switch is returned to its normally open position during switching.</p>	Holy Wetman	4/8/2023	4/10/2023	4/10/2023	2	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment
197	CaPA	Set WMP-16	CaPA_Set WMP-16	2	CaPA_Set WMP-16_02	2	<p>Regarding PG&E's Load Break Elements:</p> <p>(a) Please explain PG&E's operating procedure for operating a load break element in a vault to engage or de-energize a circuit or circuit segment.</p> <p>(b) Please explain PG&E's written procedures or other documentation related to your response to part (a).</p> <p>(c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a load break element that is normally in a closed position, the circuit segment is returned to its normally open position during switching.</p> <p>(d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a load break element that is normally in an open position, the circuit segment is returned to its normally closed position during switching.</p>	Holy Wetman	4/8/2023	4/10/2023	4/10/2023	0	NA	8.1.2.10.3	Grid Design and System Hardening	Motor Switch Operator Switch Replacement
198	CaPA	Set WMP-16	CaPA_Set WMP-16	3	CaPA_Set WMP-16_03	3	<p>Regarding PG&E's Junction Boxes:</p> <p>(a) Please explain PG&E's operating procedure for operating a junction box in a vault to engage or de-energize a circuit or circuit segment.</p> <p>(b) Please explain PG&E's written procedures or other documentation related to your response to part (a).</p> <p>(c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a junction box that is normally in a closed position, the circuit segment is returned to its normally open position during switching.</p> <p>(d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a junction box that is normally in an open position, the circuit segment is returned to its normally closed position during switching.</p>	Holy Wetman	4/8/2023	4/10/2023	4/10/2023	0	NA	8.1.2.10.1	Grid Design and System Hardening	Other Grid Technology Improvements to Minimize Risk of Outages
199	CaPA	Set WMP-16	CaPA_Set WMP-16	4	CaPA_Set WMP-16_04	4	<p>Please explain PG&E's selection criteria for where to install the following equipment on underground circuits:</p> <p>(a) SCADA UG switches</p> <p>(b) Load break elements</p>	Holy Wetman	4/8/2023	4/10/2023	4/10/2023	0	NA	8.1.2	Grid Design and System Hardening	Other Grid Technology Improvements to Minimize Risk of Outages
200	CaPA	Set WMP-16	CaPA_Set WMP-16	5	CaPA_Set WMP-16_05	5	<p>Please explain PG&E's selection criteria for where to install the following equipment on underground circuits:</p> <p>(a) SCADA UG switches</p> <p>(b) Load break elements</p> <p>(c) Subsurface transformers</p>	Holy Wetman	4/8/2023	4/10/2023	4/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment

302	TURN	010	TURN_010	1	TURN_010_Q1	<p>PG&E's WMP (R1) at page 4 states PG&E undergrounded 160 miles in 2022 and 73 miles in 2021. In each of these years, separately, please provide the number of overhead miles that were converted to underground listed in these mileage figures.</p>	<p>WV currently do not track the overhead miles removed and replaced through undergrounding. Our geospatial system of asset only tracks conversion to underground.</p> <p>Based on the mapping overhead to underground conversion factor of 1 overhead mile to 1.25 system hardening overhead miles and the estimated conversion factor of 1 overhead mile to 1.07 currently build-out underground miles, the estimated overhead miles removed in 2022 and 2021 were approximately 134 and 53 miles, respectively.</p> <p>The below table represents the miles completed in 2021 and 2022, split by System Hardening and Community rebuild that calculate the estimated overhead miles removed based on each program.</p> <p>Program CIRIS LG Conversion Factor (A) 2021 2022 Background (B) Overhead Replaced (C - 8 BA) Underground (D) Total (E - 1 DA) System Hardening 125 40 32 119 95 Community Rebuild 157 33 21 39 Total 282 73 53 158</p>	Tom Long	4/28/2023	5/3/2023	5/3/2023	0	NA	8.1.2.2	Grid Design, Operations, and Maintenance	Undergrounding of Electric Lines and/or Equipment
303	TURN	010	TURN_010	2	TURN_010_Q2	<p>PG&E's WMP (R1) at page 4 states "Between 2023 and 2026, 87 percent of PG&E's undergrounding work is planned for the top 20 percent of risk-ranked circuit segments, as identified by our risk models."</p> <p>Please provide percentages and data in Excel that supports the 87 percent figure.</p> <p>Please explain what "top 20 percent of risk-ranked circuit segments" means, and reference the data and response to part (a) to show how this is calculated.</p>	<p>The confidence attachment is being provided pursuant to a signed Non-Disclosure Agreement with PG&E.</p> <p>1- Please see attachment "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF.xlsx"</p> <p>2- Top 20% Risk-Ranked Circuit Segment - miles can come from either the WORM V2 or V3 Risk Rank Models. The "V3 Top 20% Risk-Ranked Circuit Segment" are miles selected from the WORM V3 risk model with a V3 Risk Rank greater than 720. Any miles with a V3 Risk Rank above 720 that are completed as part of the program would then be completed under "V2". The "V2 Top 20% Risk-Ranked Circuit Segment" are miles selected from the WORM V2 risk model with a V2 Risk Rank greater than 727. Any miles with a V2 Risk Rank above 727 that are completed as part of the program would then be completed under "V2".</p>	Tom Long	4/28/2023	5/3/2023	5/3/2023	1	Yes	8.1.2.2	Grid Design, Operations, and Maintenance	Undergrounding of Electric Lines and/or Equipment
304	TURN	010	TURN_010	3	TURN_010_Q3	<p>Following up on the response to TURN DR 7.4C1, which TURN asked whether PG&E calculated circuit segment level RSE for the past and future work shown in Attachment 2023-04-04_PGE_2023_WMP_R1_Section 4.2.1_Ans01, as a further revision of which is referenced on page 105, 10.77 of the WMP (R1).</p> <p>Whether or not O&E required PG&E to present such circuit segment level RSE in the 2023-2025 WMP, has PG&E calculated them? If so, please provide the RSE, preferably any additional columns in the workbook provided as an Add1 to TURN DR 7.2. Please provide all supporting workpapers, calculations, input data, and assumptions regarding these RSE calculations.</p>	<p>The elements of RSE calculations with the feasibility element used to modify the spreadsheet to account for operational and accessibility factors.</p> <p>Please see attachment "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" for a list of all circuit segments and their calculated RSE. Circuit segments without a WFF score are not in a WFF and do not have a score calculated.</p> <p>1- Circuit Segment (Column A) 2- WFF Score (Column B)</p>	Tom Long	4/28/2023	5/3/2023	5/3/2023	1	NA	6.4.2	Risk Methodology and Assessment	Top Risk Contributing Circuit Segments
305	TURN	010	TURN_010	4	TURN_010_Q4	<p>Re Figure 22-34-1 on p. 969 (R1).</p> <p>Please provide the figure in Excel with supporting data and calculations.</p> <p>Please explain what the weighted risk per mile means and how it is calculated.</p> <p>If not provided in part (a), in Excel please provide all circuit segments in PG&E's WFF and WFFRA and the corresponding WFF score and weighted WFFSE. Please provide supporting data and calculations in Excel. Please include as part of the response to part (a).</p>	<p>1- Please see "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" Please note the length and total of each mile identified by the number of data points and size and scaling of the chart. This does not impact the Pearson coefficient results.</p> <p>2- Historically, PG&E has not ranked our circuit segments by "total risk" (the sum total of all risk rated occupied by the circuit segment, divided by the count of points in the chart). In this case, the "weighted risk per mile" is the "total risk" in high risk areas, divided by the mileage of the circuit segment in high risk areas.</p> <p>3- Please see "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF", column E with the underlying inputs of WFFSE/RSE as shown on column B and C. High Risk</p>	Tom Long	4/28/2023	5/10/2023	5/8/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E 22-34 - Review Process of Prioritizing Wildfire Mitigations
306	TURN	010	TURN_010	5	TURN_010_Q5	<p>Please provide the number of miles of secondary overhead distribution lines versus primary overhead distribution lines in PG&E's WFF/D, and separately for PG&E's identified HFRA.</p>	<p>Please see "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF"</p>	Tom Long	4/28/2023	5/3/2023	5/3/2023	1	NA	8.1.2.5	Grid Design and System Hardening	Traditional Overhead Hardening
307	TURN	010	TURN_010	6	TURN_010_Q6	<p>PG&E's WMP (R1) at page 4 states "Recent data and analysis demonstrate that the Enhanced Vegetation Management (EVM) Program risk reduction is less than EPSS and additional Operational Mitigations such as Power Voltage Detector capabilities." Please provide the recent data, including all supporting documents and quantitative analysis in Excel, that support this statement.</p>	<p>PG&E completed the comparison of risk reduction and Risk Speed Efficiency (RSE) of EPSS in EVM in the 2022 WMP. This comparison is described in the 2023 CIRIS Chapter 3 Section 3.2 through 3.7. The updated wildfire mitigation strategy is summarized in Table 3-4 on page 2-30, as the risk reduction relative to spend between EVM and EPSS is substantially EPSS's favor.</p> <p>Please refer to the following workpapers:</p> <ul style="list-style-type: none"> 2022 WMP Data Table 12 - "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF", initiative 7.3.5.15 and 7.3.8.8 EVM/RSE Worksheet - "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" EPSS RSE Worksheet - "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" 2023 CIRIS Supplemental File EPSS - "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" 	Tom Long	4/28/2023	5/3/2023	5/3/2023	4	NA	6.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
308	TURN	010	TURN_010	7	TURN_010_Q7	<p>PG&E WMP (R1) at page 251 states "The types of mitigation tradeoff and effectiveness analysis we conduct revealed PG&E's WMP (R1) decisions to transition away from the 0100 program."</p> <p>Please provide all documentation and internal communications regarding the transition away from the EVM program.</p> <p>Please provide the "effectiveness analysis" conducted by PG&E that informed its decision to discontinue the 010 program.</p> <p>Please provide annual total spending on the EVM program from 2018-2022.</p>	<p>1- Please see "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF" pdf sent by VM Program Communications on October 02, 2022 regarding end of EVM in the end of 2022.</p> <p>2- In an April 14th Call held on October 20, 2022, PG&E informed staff that due to the end of the Enhanced Vegetation Management (EVM) Program in 2022, PG&E has eliminated EVM program's mandatory hearings and evaluations (referred to as P&E's "EVM Program") and that PG&E will continue to monitor the 0100 program's mandatory hearings and evaluations (referred to as P&E's "EVM Program") and that PG&E will continue to monitor the 0100 program's mandatory hearings and evaluations (referred to as P&E's "EVM Program") and that PG&E will continue to monitor the 0100 program's mandatory hearings and evaluations (referred to as P&E's "EVM Program").</p> <p>3- The EVM program began in 2019. Please see below for EVM Actual Totals for 2019-2022.</p> <p>WMP Actual 2019 470k 2020 441 kM 2021 270kM 2022 817M</p>	Tom Long	4/28/2023	5/3/2023	5/3/2023	3	Yes	6.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
309	TURN	011	TURN_011	1	TURN_011_Q1	<p>1- PG&E's WMP (R1) at page 4 references WORM v3.</p> <p>2- Please explain and quantify the differences between WORM v2 and WORM v3. Please provide all supporting data and analysis in Excel with working formulas.</p> <p>3- Please provide all results of WORM v3 in Excel with the circuit segment, circuit protection area, or most granular WFF/D and self-identified HFRA areas that have been evaluated.</p> <p>4- Please provide circuit segment identifier that can be used to cross-reference with PG&E's undergrounding workpapers, provided in workpapers "2023-04-04_PGE_2023_WMP_R1_Appendix D ACI PG&E 22-34_Ans01". Please note this unique identifier is the workpaper's file name and provide in Excel if not already available. Please ensure identifier should also be incorporated into the response to question 2.</p> <p>5- Total wildfire risk score. 6- Total P&P risk score. 7- Mean wildfire risk score (please explain in the response how this is calculated). 8- Mean P&P risk score (please explain in the response how this is calculated). 9- Risk Rank (please explain in the response how this is determined). 10- Overhead circuit miles of the circuit segment. 11- Calculated number of underground miles to underground the circuit (if available for currently scoped projects). 12- Please add 4 columns to the spreadsheet provided in part (a) for the number of overhead miles expected to be underground in 2023, 2024, and 2025, respectively, corresponding to each circuit segment.</p>	<p>1- Application and quantification of the differences between the top 20% risk ranked circuit segments between WORM v2 and WORM v3 are provided in the response to ACI 22-09 on pages 885-902 of the 2023 PG&E WMP. The workbook supporting this work is provided in attachment "WMP_Disclosure2023_DR_TURN_011-Q005AAH01_CONF".</p> <p>2- When the worksheet the Worksheet tab directs the reader through the analysis supporting ACI 22-09 and specifically the waterfall chart and circuit segment counts provide on page 889 of the 2023 PG&E WMP.</p> <p>3- Please see attachment "WMP_Disclosure2023_DR_TURN_011-Q005AAH01_CONF" workbook DR_compact_in_Accumulative</p> <p>4- See Column A</p> <p>5- See Column B</p> <p>6- This is the sum of the wildfire risk for all paths along the circuit segment divided by the number of paths along the circuit segment which was previously presented on column B.</p> <p>7- Note, this column is not WFF/D based for risk scoring, since this value is only used for risk ranking.</p> <p>8- N/A, added in Column T.</p> <p>9- P&P risk scores are not calculated at a risk point level since the P&P risk scores are calculated at the customer level and aggregated to the circuit segment level.</p> <p>10- See Column N</p> <p>11- The Risk Rank order is described in Section 6.4.2 of the 2023 WMP. PG&E ranked circuit segments from highest to lowest mean wildfire/risk rank. By sorting on this method, the risk of a circuit segment is reflective to the length of the circuit segment. Alternatively, circuit segments can be sorted on other methods such as total overall wildfire risk. However, the result would be significantly impacted by the length of the circuit segment (i.e. longer circuit segments would have higher total risk scores in general).</p> <p>12- We currently do not calculate the overhead miles removed and replaced through undergrounding.</p>	Tom Long	5/1/2023	5/8/2023	5/8/2023	2	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework
310	TURN	011	TURN_011	2	TURN_011_Q2	<p>2- PG&E's undergrounding workpaper, "2023-04-04_PGE_2023_WMP_R1_Appendix D ACI PG&E 22-34_Ans01".</p> <p>3- Please add a column that provides the unique circuit segment identifier requested in 10(b) above.</p> <p>4- Please add a column to the spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WORM v3.</p> <p>5- Please add a column to the spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WFF/D.</p> <p>6- Please add a column that provides the total overhead circuit miles of each circuit segment.</p> <p>7- Please provide all PG&E's circuit segment response to "total risk" table that total risk of each segment.</p> <p>8- Please provide the total number of overhead miles that correspond to each year's total underground miles (only in Columns J through the "feasibility score by CPZ" which is defined in the definitions tab as a "Cost multiplier including the difficulty of undergrounding the circuit segment (Circuit Protection Zone (CPZ))".</p> <p>9- Please explain what the multiplier is applied to. For example, what is the baseline cost of undergrounding per mile (multiplier of 1) in 2023, 2024, and 2025.</p> <p>10- Please provide an estimation of how the multiplier is used to estimate costs. For example, if a CPZ has a feasibility score of 2.2, what is the estimated total cost to calculate the calculation for this segment.</p> <p>11- Please provide the estimated costs forecast related to the workpaper in 2023-2025, annually. Please provide as the circuit segment level if available, and, in total, Please provide all supporting workpapers and calculations in Excel. Please provide recorded 2022 totals for undergrounding miles shown here.</p>	<p>1- See column A to WORM v3 circuit segment identifiers.</p> <p>2- See column Q for WORM v3 circuit segment identifiers.</p> <p>3- See column AC</p> <p>4- See column AD</p> <p>5- The Risk Rank order is described in Section 6.4.2 of the 2023 WMP. PG&E ranked circuit segments from highest to lowest mean wildfire/risk rank. By sorting on this method, the risk of a circuit segment is reflective to the length of the circuit segment. Alternatively, circuit segments can be sorted on other methods such as total overall wildfire risk. However, the result would be significantly impacted by the length of the circuit segment (i.e. longer circuit segments would have higher total risk scores in general).</p> <p>6- We currently do not calculate the overhead miles removed and replaced through undergrounding.</p> <p>7- As described in more detail in the WMP Data Request Q3, PG&E's WFF/D Feasibility (WFFSE) scores incorporate the elements of RSE calculations with the feasibility element used to modify the spread sheet to account for operational and accessibility factors.</p> <p>8- As described in more detail in the WMP Data Request Q3, PG&E's WFF/D Feasibility (WFFSE) scores incorporate the elements of RSE calculations with the feasibility element used to modify the spread sheet to account for operational and accessibility factors.</p> <p>9- Location 1: 1.1 feasibility, Location 2: 1.2 feasibility. The forecasted cost is expected to be 20% higher in Location 2 than in Location 1 due to feasibility scores that are not cost neutral, or greater.</p> <p>10- Because the unit cost of undergrounding can vary by year, this is treated as 1 dollar that impact the calculation of WFFSE. Overall, it is expected that the average feasibility across the entire portfolio will be managed within the expected risk cost as PG&E's strategy is based on operational and accessibility factors. After miles are selected based on WFFSE, locations are assessed in further detail during the next design for that project.</p> <p>11- Please see attachment "WMP_Disclosure2023_DR_TURN_011-Q005AAH01_CONF"</p> <p>12- The circuit segment identifier is in the name of the circuit segments as previously listed in our workpapers in attachment "WMP_Disclosure2023_DR_TURN_007-Q005AAH01_CONF" and column Q to WORM v3 circuit segment identifiers.</p> <p>13- Please see attachment "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF". Note, the calculation to determine High Fire WFFSE score is as follows: High Fire WFFSE score = (WFFSE score) * (WFFSE score) * (High Fire Feasibility Cost Multiplier (system C - "Feasibility score").</p> <p>14- Please see "WMP_Disclosure2023_DR_C&A/Workpapers_005-Q005AAH01_CONF"</p>	Tom Long	5/1/2023	5/8/2023	5/8/2023	3	Yes	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E 22-16 - Progress and Update on Undergrounding and Risk Prioritization
311	TURN	011	TURN_011	3	TURN_011_Q3	<p>1- Regarding DR response TURN 37, attachment "WMP_Disclosure2023_DR_TURN_007-Q005AAH01_CONF" and "WMP_Disclosure2023_DR_TURN_007-Q005AAH01_CONF", with the unique identifier for each circuit segment provided in 10(b) and 2(a) above.</p> <p>2- Please provide the supporting data and calculations for "PG&E LG Worksheet 2023-26_Conf" column AC "HF_WFFSE Score". The formula looks up a value in a confidential data request sent to CA.PA. Please provide the supporting data and calculations for "PG&E LG Worksheet 2023-26_Conf" column AC "HF_WFFSE Score".</p> <p>3- Please provide WMP_Disclosure2023_DR_C&A/Workpapers_005-Q005AAH01_CONF in Excel if not provided in response to part (b) of this question. Please provide in Excel with working formulas and calculations, not external workbooks.</p>	<p>1- Please see attachment "WMP_Disclosure2023_DR_TURN_007-Q005AAH01_CONF" and "WMP_Disclosure2023_DR_TURN_007-Q005AAH01_CONF" for a list of all circuit segments and their calculated RSE. Circuit segments without a WFF score are not in a WFF and do not have a score calculated.</p> <p>2- Please see "WMP_Disclosure2023_DR_TURN_010-Q005AAH01_CONF", column E with the underlying inputs of WFFSE/RSE as shown on column B and C. High Fire Feasibility Cost Multiplier (system C - "Feasibility score").</p> <p>3- Please see "WMP_Disclosure2023_DR_C&A/Workpapers_005-Q005AAH01_CONF"</p>	Tom Long	5/1/2023	5/8/2023	5/8/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

331	OEIS	004	OEIS_004	5	OEIS_004_05	<p>Regarding Assess of Concern and Proposed Tree Inspections (FTI)</p> <p>a. How will PG&E address risk from ground based trees (trees not obviously dead, dying or declining) in non-Area C Concern?</p> <p>b. For WMP 2023-PG&E-003, Question 7, PG&E indicated that ISA TRAQ forms is not disclosed and will be used as a guide for FTI. During FTI, what information is input into OneWMP? Provide a copy of the form(s) with OneWMP inspectors are required to populate during FTI.</p> <p>c. During FTI, will all sensitive trees within the AOC be inspected?</p> <p>d. If not, what inspections are required to perform both a level 1 and level 2 inspection on each sensitive tree?</p> <p>e. If not, what sensitive trees are inspected and how is the level of inspection determined?</p> <p>f. How many sensitive trees within PG&E's AOCs were treated under the EVM program?</p> <p>g. On page 56 of PG&E's WMP, states "Our Operational Mitigation includes programs such as Enhanced Possible Safety Settings (EPSS) and Focused Tree Inspections. FTI is not described as an "operational mitigation" under the WMP. Clarify this statement."</p>	<p>The confidential attachment is being provided pursuant to the accompanying confidentiality declaration.</p> <p>a. As defined in PG&E's Vegetation Management Distribution Inspection Procedure, provided as WMP Discovery2023_DR_OEIS_004-Q006A01C00F.pdf, if a VIM identifies a hazard based on using a Level 1 inspection, a Level 2 inspection will be performed to determine if work is required to maintain compliance.</p> <p>b. At this time, PG&E does not have a finalized inspection procedure for FTI. Once that is available, we can provide the table with an internet link to the procedure.</p> <p>c. No.</p> <p>d. Level 1 inspections are performed on all trees within the AOC. If a Level 1 assessment cannot sufficiently determine the severity of conditions or defects, a Level 2 inspection is performed.</p> <p>e. Approved sensitive trees within PG&E's AOCs were treated under the EVM program.</p> <p>f. As defined in the 2023 WMP, PG&E's Operational Mitigation provides on-going risk reduction and diligence how we manage the environment around the electric grid. This includes, but is not limited to, EPSS and FTI.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
332	OEIS	004	OEIS_004	6	OEIS_004_06	<p>Regarding Enhanced Vegetation Management</p> <p>a. Populate the following table with information regarding EVM.</p> <p>Year</p> <p>HFTD Miles Completed</p> <p>Inspected Miles</p> <p>Average Trees Per Mile</p> <p>% of Miles in Top 20% of Risk</p> <p>2019</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Total</p> <p>b. Provide a GIS layer of the features showing where EVM work was completed.</p>	<p>Year</p> <p>HFTD Miles Completed</p> <p>Inspected Miles</p> <p>Average Trees Per Mile</p> <p>% of Miles in Top 20% of Risk</p> <p>2019 2044 miles 1,119,989 198,243 79.5%</p> <p>2020 1876 miles 1,102,342 197,221 89.4%</p> <p>2021 1983 miles 1,246,174 336,018 169.9%</p> <p>2022 1024 miles 1,519,099 271,420 141.98.9%</p> <p>Total</p> <p>a. Please note, for column "average trees per mile," we interpreted that as average number of trees scored per mile. We obtained this number by taking the number of trees scored divided by HFTD Miles completed for the corresponding year. Please note, for "% of Miles in Top 20% of Risk" the 2019 percentage was based upon 2019-2020 risk ranking and the 2020 percentage was based upon 2020 risk ranking.</p> <p>b. Please see supporting attachment "WMP-Discovery2023_DR_OEIS_004-Q006A010 job.pdf" for GIS file of EVM work completed between 2019 to 2022.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	1	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
332	OEIS	004	OEIS_004	6W	OEIS_004_06W	<p>Regarding Enhanced Vegetation Management</p> <p>a. Populate the following table with information regarding EVM.</p> <p>Year</p> <p>HFTD Miles Completed</p> <p>Inspected Miles</p> <p>Average Trees Per Mile</p> <p>% of Miles in Top 20% of Risk</p> <p>2019</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Total</p> <p>b. Provide a GIS layer of the features showing where EVM work was completed.</p>	<p>Year</p> <p>HFTD Miles Completed</p> <p>Inspected Miles</p> <p>Average Trees Per Mile</p> <p>% of Miles in Top 20% of Risk</p> <p>2019 2404 miles 1,119,989 198,243 79.5%</p> <p>2020 1876 miles 1,102,342 197,221 89.4%</p> <p>2021 1983 miles 1,246,174 336,018 169.9%</p> <p>2022 1024 miles 1,519,099 271,420 141.98.9%</p> <p>Total</p> <p>a. Please note, for column "average trees per mile," we interpreted that as average number of trees worked per mile. We obtained this number by taking the number of trees worked divided by HFTD Miles completed for the corresponding year. Please note, for "% of Miles in Top 20% of Risk" the 2019 percentage was based upon 2019-2020 risk ranking and the 2020 percentage was based upon 2020 risk ranking.</p> <p>b. Please see supporting attachment "WMP-Discovery2023_DR_OEIS_004-Q006A010 job.pdf" for GIS file of EVM work completed between 2019 to 2022.</p>	Colin Lang	5/4/2023	5/15/2023	5/15/2023	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
333	OEIS	004	OEIS_004	7	OEIS_004_07	<p>Regarding Vegetation-Caused Outages</p> <p>a. Populate the following table of vegetation-caused outages by mode of failure in the HFTD between 2015 and 2022. Include total by mode. PG&E may add additional rows (i.e., mode of failure) if needed.</p> <p>2015</p> <p>2016</p> <p>2017</p> <p>2018</p> <p>2019</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Total</p> <p>Branch (w/nd, < 12ft)</p> <p>Branch (w/nd, > 12ft)</p> <p>Branch (w/nd, < 4" ID)</p> <p>Branch (w/nd, > 4" ID)</p> <p>Branch (w/nd, distance Unknown)</p> <p>Branch (w/nd, distance < 4")</p> <p>Branch (w/nd, distance > 4")</p> <p>Dead Tree</p> <p>Tree Fall (incidence sensors detected)</p> <p>Tree Fall (light detected)</p> <p>Tree Fall (no object)</p> <p>Tree Drop into Obstruction</p> <p>Tree Drop into</p> <p>Other</p> <p>b. PG&E did not capture the HFTD risk in outage reports. Review the data being provided cannot be limited to only include outages in HFTD areas. Please use attachment "WMP-Discovery2023_DR_OEIS_004-Q007A001 job.pdf" for a list of the system wide vegetation-caused outage by mode of failure from 2015-2022 as recorded by PG&E.</p>	<p>PG&E did not capture the HFTD risk in outage reports. Review the data being provided cannot be limited to only include outages in HFTD areas. Please use attachment "WMP-Discovery2023_DR_OEIS_004-Q007A001 job.pdf" for a list of the system wide vegetation-caused outage by mode of failure from 2015-2022 as recorded by PG&E.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-28 - Progression of Effectiveness of Enhanced Clearances Joint Study
334	OEIS	004	OEIS_004	8	OEIS_004_08	<p>Regarding Vegetation Hazards Mitigated by PPS</p> <p>a. Copy PG&E's vegetation hazards mitigated by PPS? If so, populate the following table of vegetation hazards mitigated by mode of failure in the HFTD between 2015 and 2022, broken out by year. PG&E may add additional rows (i.e., mode of failure) if needed.</p> <p>MODE OF FAILURE FOR VEGETATION HAZARDS MITGATED BY PPS</p> <p>2015</p> <p>2016</p> <p>2017</p> <p>2018</p> <p>2019</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Total</p> <p>Branch (w/nd, < 12ft)</p> <p>Branch (w/nd, > 12ft)</p> <p>Branch (w/nd, < 4" ID)</p> <p>Branch (w/nd, > 4" ID)</p> <p>Branch (w/nd, distance Unknown)</p> <p>Branch (w/nd, distance < 4")</p> <p>Branch (w/nd, distance > 4")</p> <p>Dead Tree</p> <p>Tree Fall (incidence sensors detected)</p> <p>Tree Fall (light detected)</p> <p>Tree Fall (no object)</p> <p>Tree Drop into Obstruction</p> <p>Tree Drop into</p> <p>Other</p> <p>b. PG&E did not capture the HFTD risk in outage reports. Review the data being provided cannot be limited to only include outages in HFTD areas. Please use attachment "WMP-Discovery2023_DR_OEIS_004-Q008A010 job.pdf" for a list of the system wide vegetation-caused outage by mode of failure from 2015-2022 as recorded by PG&E.</p>	<p>PG&E did not capture the HFTD risk in outage reports. Review the data being provided cannot be limited to only include outages in HFTD areas. Please use attachment "WMP-Discovery2023_DR_OEIS_004-Q008A010 job.pdf" for a list of the system wide vegetation-caused outage by mode of failure from 2015-2022 as recorded by PG&E.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	0	NA	5.2.2	Public Safety Power Shutoff	Method Used to Compare and Evaluate the Relative Consequences of PPSs and Widespread
335	OEIS	004	OEIS_004	9	OEIS_004_09	<p>Regarding Contribution with Other Utilities on PPS Wind Thresholds</p> <p>In response to ACI PG&E-22-31, PG&E states: "In collaboration with the joint IOU team, PG&E has performed effectiveness studies to evaluate how covered conductors can reduce ignition risk compared to bare conductors."</p> <p>a. In the collaboration referenced the Covered Conductor Effectiveness Study (Table 4&5, Line 17)</p> <p>b. L&E PG&E will, if any, collaboration efforts with the investor-owned utilities at evaluating the effect of covered conductor on PPS risk.</p> <p>c. Has PG&E specifically discussed revised PPSs wind thresholds in any of its covered conductor collaboration effort?</p> <p>d. List the collaboration efforts, if any, when adjusting PPSs wind thresholds for covered conductor was discussed.</p> <p>e. Provide a list of PG&E's results that are in line with covered conductor.</p>	<p>a. The Joint IOU Covered Conductor Working Group Report was provided in the "Covered Conductor" section of the report "Covered Conductor Working Group Report" (ACI PG&E-22-31_A0010.pdf).</p> <p>b. PG&E did not collaborate with the investor-owned utilities to evaluate the effectiveness of covered conductors related to PPSs.</p> <p>c. As stated in response to ACI PG&E-22-31 in the 2023-2023 WMP, due to our PPSs modeling approach, we would not adjust our final PPSs risk thresholds to account for covered conductor. Our Catastrophe Fire Probability model (discussed in Section 9) is a risk-based assessment of the probability of ignition given an outage multiplied by the probability of catastrophic fire (the Potential Index). Thus, we would not adjust the threshold at which PPSs is executed (such as a covered for PPS) for the same risk threshold based on covered conductor.</p> <p>d. PG&E does, however, incorporate new outage data each year into our Outage Producing Winds (OPW) and ignition Probability Weather (IPW) machine learning models. These models account for any potential wind to outage ignition responses in local areas of the grid, including those due to areas outside the covered conductor. In addition, PG&E is the end-user of existing covered conductor as a feature of the IPW model as data feeders provides benefits from the Catastrophe SA/CA.</p> <p>e. Please reference "WMP-Discovery2023_DR_OEIS_004-Q009A010 job.pdf" for a list of historical OH covered conductor results in an area of interest (conductor to conductor coverage).</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-31 - PPS Wind Threshold Change Evaluations
336	OEIS	004	OEIS_004	10	OEIS_004_10	<p>Regarding Tree Fall and PPS</p> <p>In response to ACI PG&E-22-31, PG&E states: "Based on collaboration with the joint IOU team, one of the biggest hazards during PPS events is the potential for tree fall into live (i.e., 50kV).</p> <p>a. Explain "one of the biggest hazards during PPS event" in terms of risk (e.g., likelihood, consequences).</p> <p>b. PG&E's RSE (Risk-By-Dimension) information required by the WMP Guidelines.</p> <p>c. The electric utility (Utilities) make specific requests by WMP Guidelines for RSE: optimization of risk reduction and cost, and (1) identifying and evaluating mitigation instances (comparable to 2018 SA-MAP Settlement Agreement, one (2) including the use of risk by-dimension estimates (i.e., risk-potential efficiency) and evaluating the benefits and drawbacks of mitigation.</p> <p>d. Explain how the electrical corporation is optimizing its resources to maximize risk reduction. Describe how the proposed mitigation are an efficient use of electrical corporation resources and focus on achieving the greatest risk reduction with the most efficient use of funds and workforce resources.</p> <p>e. List the electrical corporation must describe how it prioritizes mitigation instances to reduce both wildfire and PPS risk. This discussion must include the following:</p> <p>(1) A high-level schematic showing the procedures and evaluation criteria used to evaluate potential mitigation instances. At a minimum, the schematic must demonstrate the roles of quantitative risk assessment, resource allocation, evaluation of other performance objectives (e.g., cost, string) identified by the electrical corporation, and RME judgment.</p> <p>f. PG&E does provide a graph of HFWA WORMS System Metering Burden: Figure 6.6-1.1, but the detail provided does not allow an evaluator to reconcile with content from section 7 and is also missing important components of RSE. In particular, a detailed description of RSE (the risk-by-dimension) is needed to reconcile with the information provided in tables 7-2 and 7-4. Please complete the following, including via Excel if applicable:</p> <p>a. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>b. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>c. List the categories requested (reference Table 7-2)</p> <p>d. List the categories requested (reference Table 7-2)</p> <p>e. List the categories requested (reference Table 7-2)</p> <p>f. List the categories requested (reference Table 7-2)</p> <p>g. List the categories requested (reference Table 7-2)</p> <p>h. List the categories requested (reference Table 7-2)</p> <p>i. List the categories requested (reference Table 7-2)</p> <p>j. List the categories requested (reference Table 7-2)</p> <p>k. List the categories requested (reference Table 7-2)</p> <p>l. List the categories requested (reference Table 7-2)</p> <p>m. List the categories requested (reference Table 7-2)</p> <p>n. List the categories requested (reference Table 7-2)</p> <p>o. List the categories requested (reference Table 7-2)</p> <p>p. List the categories requested (reference Table 7-2)</p> <p>q. List the categories requested (reference Table 7-2)</p> <p>r. List the categories requested (reference Table 7-2)</p> <p>s. List the categories requested (reference Table 7-2)</p> <p>t. List the categories requested (reference Table 7-2)</p> <p>u. List the categories requested (reference Table 7-2)</p> <p>v. List the categories requested (reference Table 7-2)</p> <p>w. List the categories requested (reference Table 7-2)</p> <p>x. List the categories requested (reference Table 7-2)</p> <p>y. List the categories requested (reference Table 7-2)</p> <p>z. List the categories requested (reference Table 7-2)</p>	<p>PG&E's RSE (Risk-By-Dimension) information required by the WMP Guidelines.</p> <p>c. The electric utility (Utilities) make specific requests by WMP Guidelines for RSE: optimization of risk reduction and cost, and (1) identifying and evaluating mitigation instances (comparable to 2018 SA-MAP Settlement Agreement, one (2) including the use of risk by-dimension estimates (i.e., risk-potential efficiency) and evaluating the benefits and drawbacks of mitigation.</p> <p>d. Explain how the electrical corporation is optimizing its resources to maximize risk reduction. Describe how the proposed mitigation are an efficient use of electrical corporation resources and focus on achieving the greatest risk reduction with the most efficient use of funds and workforce resources.</p> <p>e. List the electrical corporation must describe how it prioritizes mitigation instances to reduce both wildfire and PPS risk. This discussion must include the following:</p> <p>(1) A high-level schematic showing the procedures and evaluation criteria used to evaluate potential mitigation instances. At a minimum, the schematic must demonstrate the roles of quantitative risk assessment, resource allocation, evaluation of other performance objectives (e.g., cost, string) identified by the electrical corporation, and RME judgment.</p> <p>f. PG&E does provide a graph of HFWA WORMS System Metering Burden: Figure 6.6-1.1, but the detail provided does not allow an evaluator to reconcile with content from section 7 and is also missing important components of RSE. In particular, a detailed description of RSE (the risk-by-dimension) is needed to reconcile with the information provided in tables 7-2 and 7-4. Please complete the following, including via Excel if applicable:</p> <p>a. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>b. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>c. List the categories requested (reference Table 7-2)</p> <p>d. List the categories requested (reference Table 7-2)</p> <p>e. List the categories requested (reference Table 7-2)</p> <p>f. List the categories requested (reference Table 7-2)</p> <p>g. List the categories requested (reference Table 7-2)</p> <p>h. List the categories requested (reference Table 7-2)</p> <p>i. List the categories requested (reference Table 7-2)</p> <p>j. List the categories requested (reference Table 7-2)</p> <p>k. List the categories requested (reference Table 7-2)</p> <p>l. List the categories requested (reference Table 7-2)</p> <p>m. List the categories requested (reference Table 7-2)</p> <p>n. List the categories requested (reference Table 7-2)</p> <p>o. 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337	OEIS	004	OEIS_004	11	OEIS_004_11	<p>Regarding Tree Fall and PPS</p> <p>In response to ACI PG&E-22-31, PG&E states: "Based on collaboration with the joint IOU team, one of the biggest hazards during PPS events is the potential for tree fall into live (i.e., 50kV).</p> <p>a. Explain "one of the biggest hazards during PPS event" in terms of risk (e.g., likelihood, consequences).</p> <p>b. PG&E's RSE (Risk-By-Dimension) information required by the WMP Guidelines.</p> <p>c. The electric utility (Utilities) make specific requests by WMP Guidelines for RSE: optimization of risk reduction and cost, and (1) identifying and evaluating mitigation instances (comparable to 2018 SA-MAP Settlement Agreement, one (2) including the use of risk by-dimension estimates (i.e., risk-potential efficiency) and evaluating the benefits and drawbacks of mitigation.</p> <p>d. Explain how the electrical corporation is optimizing its resources to maximize risk reduction. Describe how the proposed mitigation are an efficient use of electrical corporation resources and focus on achieving the greatest risk reduction with the most efficient use of funds and workforce resources.</p> <p>e. List the electrical corporation must describe how it prioritizes mitigation instances to reduce both wildfire and PPS risk. This discussion must include the following:</p> <p>(1) A high-level schematic showing the procedures and evaluation criteria used to evaluate potential mitigation instances. At a minimum, the schematic must demonstrate the roles of quantitative risk assessment, resource allocation, evaluation of other performance objectives (e.g., cost, string) identified by the electrical corporation, and RME judgment.</p> <p>f. PG&E does provide a graph of HFWA WORMS System Metering Burden: Figure 6.6-1.1, but the detail provided does not allow an evaluator to reconcile with content from section 7 and is also missing important components of RSE. In particular, a detailed description of RSE (the risk-by-dimension) is needed to reconcile with the information provided in tables 7-2 and 7-4. Please complete the following, including via Excel if applicable:</p> <p>a. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>b. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>c. List the categories requested (reference Table 7-2)</p> <p>d. List the categories requested (reference Table 7-2)</p> <p>e. List the categories requested (reference Table 7-2)</p> <p>f. List the categories requested (reference Table 7-2)</p> <p>g. List the categories requested (reference Table 7-2)</p> <p>h. List the categories requested (reference Table 7-2)</p> <p>i. List the categories requested (reference Table 7-2)</p> <p>j. 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List the categories requested (reference Table 7-2)</p>	<p>PG&E's RSE (Risk-By-Dimension) information required by the WMP Guidelines.</p> <p>c. The electric utility (Utilities) make specific requests by WMP Guidelines for RSE: optimization of risk reduction and cost, and (1) identifying and evaluating mitigation instances (comparable to 2018 SA-MAP Settlement Agreement, one (2) including the use of risk by-dimension estimates (i.e., risk-potential efficiency) and evaluating the benefits and drawbacks of mitigation.</p> <p>d. Explain how the electrical corporation is optimizing its resources to maximize risk reduction. Describe how the proposed mitigation are an efficient use of electrical corporation resources and focus on achieving the greatest risk reduction with the most efficient use of funds and workforce resources.</p> <p>e. List the electrical corporation must describe how it prioritizes mitigation instances to reduce both wildfire and PPS risk. This discussion must include the following:</p> <p>(1) A high-level schematic showing the procedures and evaluation criteria used to evaluate potential mitigation instances. At a minimum, the schematic must demonstrate the roles of quantitative risk assessment, resource allocation, evaluation of other performance objectives (e.g., cost, string) identified by the electrical corporation, and RME judgment.</p> <p>f. PG&E does provide a graph of HFWA WORMS System Metering Burden: Figure 6.6-1.1, but the detail provided does not allow an evaluator to reconcile with content from section 7 and is also missing important components of RSE. In particular, a detailed description of RSE (the risk-by-dimension) is needed to reconcile with the information provided in tables 7-2 and 7-4. Please complete the following, including via Excel if applicable:</p> <p>a. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>b. Provide RSE Risk-By-Dimension information in a new RSE table as follows, ranked in descending order of RSE. Reference heading ID: WMP_Category</p> <p>c. List the categories requested (reference Table 7-2)</p> <p>d. List the categories requested (reference Table 7-2)</p> <p>e. List the categories requested (reference Table 7-2)</p> <p>f. List the categories requested (reference Table 7-2)</p> <p>g. List the categories requested (reference Table 7-2)</p> <p>h. List the categories requested (reference Table 7-2)</p> <p>i. List the categories requested (reference Table 7-2)</p> <p>j. List the categories requested (reference Table 7-2)</p> <p>k. List the categories requested (reference Table 7-2)</p> <p>l. List the categories requested (reference Table 7-2)</p> <p>m. List the categories requested (reference Table 7-2)</p> <p>n. List the categories requested (reference Table 7-2)</p> <p>o. 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355	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	2	CPUC - SPD (Safety Policy Division)_02	<p>2) On page 645 of its 2023 WMP, PG&E states there has been a "Reduced size and duration of PSPS events" and claims "This is an indicator of increased operational maturity, flexibility, and system resilience."</p> <p>Is this claim correct based on PSPS?</p> <p>If it was, it is not at least in part or perhaps implied, that PG&E's increased operational maturity, flexibility, and resilience is also relying on other processes such as EPDS (See last)?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.1.2	Public Safety Power Shutoff	Identification of Frequently De-Energized Circuits
356	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	3	CPUC - SPD (Safety Policy Division)_009_03	<p>2) PG&E has less than the required number of personnel with required training for several categories in Table B-30, PG&E's Personnel Training Programs for Wildfire and PSPS Events. Other data related to staffing includes, for example, all staffing will complete training on time and reasons for not all being completed at the timing of the data required process. Why are there less than required values of personnel not completing the training?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.1.3	Grid Operations and Procedures	Personnel Work Procedures and Training in Conditions of Elevated Fire Risk
357	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	4	CPUC - SPD (Safety Policy Division)_009_04	<p>1) PG&E provides means to verify message receipt in Table B-49, PG&E's Protocols for Emergency Communication to Stakeholder Groups. How accurate is the contact information with regard to verifying messages are reaching intended recipients to act in intended safety outcomes (e.g., including, but not limited to, message not being sent to a new number or person to trigger in the household)?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.4.4	Emergency Preparedness	Protocols for Emergency Communications
358	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	5	CPUC - SPD (Safety Policy Division)_009_05	<p>1) PG&E issues notifications to AFN/MSB members. How does PG&E know that these notifications are received and that contact information is up to date?</p> <p>2) How does PG&E ensure that contact information is up to date? How does PG&E ensure that contact information on file is current to help ensure such important notices are being received by the intended recipients?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
359	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	6	CPUC - SPD (Safety Policy Division)_009_06	<p>1) PG&E monitors pre-pandemic in-person engagement. Does PG&E have data comparing pre-pandemic engagement to pandemic (includes engagement efforts and among other things, attendance)? For instance, are there metrics related to pre-pandemic in-person engagement and AFN/MSB?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
400	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	7	CPUC - SPD (Safety Policy Division)_009_07	<p>1) PG&E states that if an AFN customer does not answer the door, the notification is considered successful if a door hanger is left. What industry polystyrene is PG&E following that classifies a door hanger as a successful notification?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
400	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	7	CPUC - SPD (Safety Policy Division)_009_07	<p>1) PG&E states that if an AFN customer does not answer the door, the notification is considered successful if a door hanger is left. What industry polystyrene is PG&E following that classifies a door hanger as a successful notification?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
406	CaPA	Set WMP-25	CaPA_Set WMP-26	2	CaPA_Set WMP-26_02	<p>(a) Do you consider load growth projections when you determine which system hardening measures to deploy for wildfire mitigation projects?</p> <p>(b) If the answer to (a) is "yes," explain how load growth projections influence your mitigation selection process.</p> <p>(c) If the answer to (a) is "no," explain why not.</p>	Holy Wellman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
407	CaPA	Set WMP-25	CaPA_Set WMP-26	3	CaPA_Set WMP-26_03	<p>(a) When you plan system hardening projects for wildfire mitigation purposes, do you design projects to accommodate forecasted load growth?</p> <p>(b) If yes, what range of load growth do you design for?</p> <p>(c) Describe any process for incorporating forecasted load growth into the design of system hardening projects for wildfire mitigation, which considers of possible load growth are considered.</p>	Holy Wellman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution

408	CaPA	Set WMP-26	CaPA_Set WMP-26_04	4	CaPA_Set WMP-26_04	<p>(a) The intention behind covering bare conductor to covered conductor is to cover the risk of electrocution hazards. When traveling from bare conductor to covered conductor, we ensure that we maintain the load capacity at peak, at a minimum. We also work with our Distribution Planning team to make the design for forecasted load growth when required.</p> <p>(b) Designing the system to maintain current capacity and voltage systems allow for continuity not only in the load profile and customer service expectations, but also in ensuring capabilities we have established to handle regular operation and system maintenance.</p> <p>PG&E designs for two basic systems in primary electric distribution tap-line and feeders.</p> <p>The lines are typically served by fuses and interrupters and are generally serving loads that are 150 amps. Our new construction wire uses 4 aluminum conductors (AAC) and overhead (ACSR) XLPE line and new construction, 42 kV copper (CS) XLPE line (new construction), and 10 aluminum (AL) EPRI for LG. Each of these conductors are on wire greater than 150 amps is typically all that is required for a forecasted - higher a design is required. If the forecasted load growth is greater than the capacity of the tap-line or feeder, if the load forecast is greater than what can be served through protection equipment, or if the load forecast is greater than what can be served through the area to offload the tap-line and providing a system capable of handling that load.</p> <p>Feeders are typically the backbone of the system served by circuit breakers and the reclosers. Our wire uses 775 or aluminum conductors (AAC) XLPE wire wire, 367.5 (AAC) XLPE wire wire, 1100 AL EPRI for LG, and 800 AL EPRI for medium (M) cables not on the circuit. Each of these conductors allows us to serve more than 400 amps and are typically based on their forecasted load, voltage profile, reactive power flow, and operational capacity requirements in the area.</p> <p>Additional measures included in machine design are voltage regulators, capacitors for reactive power management, machine protection and SCADA, as well as considerations for wire loss and machine to manage customer count and new hardware/forecasted improvements. In addition, where the load forecast may exceed our maximum wire size or capability of the circuit, we may choose to install new circuit breakers and reclosers.</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
409	CaPA	Set WMP-26	CaPA_Set WMP-26_05	5	CaPA_Set WMP-26_05	<p>(a) All of new covered conductor installation projects designed to accommodate loads greater than current capacity for the same circuit?</p> <p>(b) If the answer to (a) is "yes", explain why.</p> <p>(c) If the answer to (a) is "no", explain why not.</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
410	CaPA	Set WMP-26	CaPA_Set WMP-26_06	6	CaPA_Set WMP-26_06	<p>(a) Are all overhead to underground conductor conversion projects designed to accommodate loads greater than current capacity for the same circuit?</p> <p>(b) If the answer to (a) is "yes", explain why.</p> <p>(c) If the answer to (a) is "no", explain why not.</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
411	CaPA	Set WMP-26	CaPA_Set WMP-26_07	7	CaPA_Set WMP-26_07	Describe the challenges or advantages related to increasing load capacity on a circuit that has previously been hardened with covered conductor.	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
412	CaPA	Set WMP-26	CaPA_Set WMP-26_08	8	CaPA_Set WMP-26_08	Describe the challenges or advantages related to increasing load capacity on a circuit that has previously been hardened with underground conductor.	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
413	CaPA	Set WMP-26	CaPA_Set WMP-26_09	9	CaPA_Set WMP-26_09	<p>Provide a list of all circuits in your system. For each circuit, provide:</p> <p>(a) Circuit ID Number</p> <p>(b) Peak Load in Amps observed since January 1, 2014</p> <p>(c) Circuit Capacity in Amps</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
413	CaPA	Set WMP-26	CaPA_Set WMP-26_09a	9a	CaPA_Set WMP-26_09a	<p>Provide a list of all circuits in your system. For each circuit, provide:</p> <p>(a) Circuit ID Number</p> <p>(b) Peak Load in Amps observed since January 1, 2014</p> <p>(c) Circuit Capacity in Amps</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
414	CaPA	Set WMP-26	CaPA_Set WMP-26_010	10	CaPA_Set WMP-26_010	<p>Provide updated GIS layers of primary distribution, secondary distribution, and transmission lines, with the following attributes:</p> <p>(a) Circuit ID Number</p> <p>(b) Peak Load in Amps observed since January 1, 2014</p> <p>(c) Circuit Capacity in Amps</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
414	CaPA	Set WMP-26	CaPA_Set WMP-26_010a	10a	CaPA_Set WMP-26_010a	<p>Provide updated GIS layers of primary distribution, secondary distribution, and transmission lines, with the following attributes:</p> <p>(a) Circuit ID Number</p> <p>(b) Peak Load in Amps observed since January 1, 2014</p> <p>(c) Circuit Capacity in Amps</p>	Holly Wetman	7/27/2023	8/10/2023	8/10/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
415	CaPA	Set WMP-27	CaPA_Set WMP-27_01	1	CaPA_Set WMP-27_01	<p>The article states the following:</p> <p>The California utility company PG&E spent about \$2.5 billion on a yearlong effort aimed at reducing wildfire risk by cutting or clearing more than a million trees growing alongside power lines.</p> <p>(a) How safe do you think the work was largely ineffective and is undermining the program, according to an internal analysis released by The Wall Street Journal and interviewees utility executives.</p> <p>(b) Did PG&E provide an internal analysis to The Wall Street Journal as described in the article?</p> <p>(c) If the answer to part (b) is yes, please provide a copy of the internal analysis described in the article.</p> <p>(d) If the answer to part (b) is no, is PG&E aware of the internal analysis described in the article?</p> <p>(e) If the answer to part (d) is yes, please provide a copy of the internal analysis described in the article.</p>	Holly Wetman	8/4/2023	8/14/2023	8/14/2023	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
416	CaPA	Set WMP-27	CaPA_Set WMP-27_02	2	CaPA_Set WMP-27_02	<p>The article states the following:</p> <p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ: However, PG&E did not know how they were used by WSJ. Please see attachment "WMP-Discovery2023_DR_CaPA.docx", 027-0002A621-m4r".</p> <p>(a) The following PG&E executives were interviewed by The Wall Street Journal:</p> <ul style="list-style-type: none"> * Sumner Singh, PG&E Executive Vice President, Operations and Chief * Peter Kerry, Senior Vice President, Major Infrastructure Delivery <p>(b) The interview occurred on July 25, 2022.</p> <p>(c) PG&E does not have transcripts of the interview, but is providing the following audio recording of the interview. Please see attachment "WMP-Discovery2023_DR_CaPA.docx", 027-0002A621-m4r".</p>	Holly Wetman	8/4/2023	8/14/2023	8/14/2023	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

464	MDRA	Date Request No. 7	MDRA_Data_Request No. 7	3	MDRA_Data_Request No. 7_C3	<p>How representative is the proxy PSS score of the entire circuit? Specifically, how many hardening projects are there per circuit? Provide a distribution if possible.</p> <p>What factors does the hardening project typically use up of the circuit? Provide a distribution if possible.</p> <p>How many EPF scores are determined and how does this compare against WORM v3.</p> <p>If PSS regressions scoring used as an alternative to the risk model (i.e. used as an independent decision tree branch)?</p> <p>What factors of undergrounding projects or PSS regressions scores to make the determination to underground?</p> <p>Provide the factors for cases where there was an undergrounding determination and</p> <p>Provide the factors for cases where PSS regressions was only one of many factors used in the determination to underground.</p>	<p>The number of hardening projects per circuit varies depending on the length of the circuit, the number of circuit protection zones on the circuit, the load, and the needs of the circuit. There is no average distribution. Please note that the PSS score is not the sole driver for any mitigation decision and is only a driver for the inclusion of a circuit segment to be included in the portfolio. A more detailed PSS review is conducted with the ongoing process to understand the specific needs, where a project:</p> <p>1- The portion of the circuit taken up by a hardening project varies by circuit and depends on the risk distribution within the circuit and the needs of the circuit. There is no average distribution. CIP system hardening projects can range from less than 1 mile to more than 20 miles. The decision for electric mitigation alternatives is a technical decision made at a sub-project level. Because of this, an average of the circuit in a hardening project is not useful in the determination of the value of the PSS score.</p> <p>2- PG&E assumes this question is relevant to the PSS score. PSS scores are the result from a PSS Circuit-Based Risk Assessment. A copy of the PSS assessment form, score sheet, and risk matrix is attached: "WORM_02022_DR_MDRA_007-0000A001.xlsx". In response to this question, PG&E provided the qualifications for our PSS team members. Only select PSS team members were involved in the assessment. The team includes:</p> <ul style="list-style-type: none"> • PG&E has a Chief of Staff for the California Public Utilities Commission to perform the PSS Circuit-Based Risk Assessments. To perform an assessment, a PSS team has: <ul style="list-style-type: none"> • Minimum of 20 years of education, training, and experience in wildfire risk assessment. • Knowledge base including the behavior, prevention standards, suppression tactics and strategies, all-risk emergency response, command and control, and complex incident management. • Each individual has functioned as a Chief Officer within California Professional Wildland Firefighting Agencies. • Experience as members of a Local, State, or Federal Incident Management Team. <p>PSS scores do not compare to WORM v3 risk scores. The PSS score was used as a supplemental review of risks that were not identified or quantified by WORM v3.</p> <p>https://www.pge.com/legals/privacy/privacy-policy</p>	Joseph Michael	10/9/2023	10/1/2023	10/31/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
465	CaPA	Set WMP-30	CaPA_Set WMP-30	1	CaPA_Set WMP-30_01	<p>This data request relates to PG&E's Wildfire Distribution Risk Model version 4 (hereinafter referred to as "WORM v4") if any of the requested documents or information is not yet complete and available, please state in your response when you expect the documents or information to be complete and available.</p> <p>Please list all distinct risk scores generated by PG&E's WORM v4. For example, WORM v3 generated 17 different risk scores.</p> <p>For each risk score in part (a), please provide a category or brief description of the type of risk the score represents.</p> <p>For each risk score in part (a), please provide a brief explanation of how PG&E intends to use that risk score.</p> <p>For each risk score in part (a), please list all PG&E wildfire mitigation measures that are informed by that risk score.</p> <p>For each risk score in part (a), please state the most granular level available for that risk score. For example, in WORM v3, the most granular level available would be the risk scores associated with individual 100m x 100m pixels.</p> <p>For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation measures (e.g. circuit segment, circuit, individual asset, etc.).</p>	<p>a) - (f) The Wildfire Distribution Risk Model (WORM v4) is not currently available. PG&E plans to make the model information available with the 2025 Wildfire Mitigation Plan Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
466	CaPA	Set WMP-30	CaPA_Set WMP-30	2	CaPA_Set WMP-30_02	<p>This data request relates to PG&E's Wildfire Distribution Risk Model version 4 (hereinafter referred to as "WORM v4") if any of the requested documents or information is not yet complete and available, please state in your response when you expect the documents or information to be complete and available.</p> <p>Please list all composite (or aggregated) risk scores generated by PG&E's WORM v4. For example, WORM v3 generated five composite risk scores.</p> <p>For each risk score in part (a), please provide a category or brief description of the type of risk the score represents.</p> <p>For each risk score in part (a), please provide a brief explanation of how PG&E intends to use that risk score.</p> <p>For each risk score in part (a), please list all PG&E wildfire mitigation measures that are informed by that risk score.</p> <p>For each risk score in part (a), please state the most granular level available for that risk score.</p> <p>For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation measures (e.g. circuit segment, circuit, individual asset, etc.).</p>	<p>a) - (f) As stated in the response to Question 001 - 002, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
467	CaPA	Set WMP-30	CaPA_Set WMP-30	3	CaPA_Set WMP-30_03	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Please provide a GIS file that details the most granular level (as discussed in questions 1(a) and 2(a)) available for each risk score identified in questions 1(a) and 2(a). This file should contain the following:</p> <ul style="list-style-type: none"> • Geometric features detailing the relevant geographic area for each risk score. This may be polygons that depict "zones," lines that depict circuit segments, points that depict assets, or other geometry that best suits the relevant risk scores. If multiple risk scores share geometry (e.g., multiple risk scores that are calculated at the "pixel" level), there is no need to include multiple layers that depict the same physical geometry. • For each geometric feature, please include all relevant risk scores from questions 1(a) and 2(a) as attributes. 	<p>a) - (f) As stated in the response to Questions 001 - 002, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
468	CaPA	Set WMP-30	CaPA_Set WMP-30	4	CaPA_Set WMP-30_04	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Please provide a GIS file that details the risk scores at the same granularity that is currently used to inform wildfire mitigation measures (as discussed in questions 1(a) and 2(a)). This file should contain the following:</p> <ul style="list-style-type: none"> • Geometric features detailing the relevant geographic area for each risk score. This may be polygons that depict "zones," lines that depict circuit segments, points that depict assets, or other geometry that best suits the relevant risk scores. If multiple risk scores share geometry (e.g., multiple risk scores that are calculated at the "pixel" level), there is no need to include multiple layers that depict the same physical geometry. • For each geometric feature, please include all relevant risk scores from questions 1(a) and 2(a) as attributes. • For each geometric feature, include the circuit identification number as an attribute. • For each geometric feature, include the circuit name as an attribute. • For each geometric feature, include the circuit segment name as an attribute. • As needed, include unique identifiers for each geometric feature (e.g., asset ID, substation name, etc.). 	<p>a) - (f) As stated in the response to Questions 001 - 002, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
469	CaPA	Set WMP-30	CaPA_Set WMP-30	5	CaPA_Set WMP-30_05	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Please provide a spreadsheet that lists (as rows) each circuit segment that is included in the Wildfire Distribution Risk Model v4. This spreadsheet should include, at minimum, the following columns:</p> <ul style="list-style-type: none"> • Name or ID number of each circuit segment. • Circuit name for the circuit that each segment is part of. • Circuit ID for the circuit that each segment is part of. • Network voltage. • The point count of the circuit segment. (CIP Abbreviations understands this to be the number of 100m x 100m pixels included in the WORM v4 along the length of the circuit segment). • The average risk value(s) associated with each pixel along the circuit segment. (Previous versions of the risk model use the value referred to as the "mean MVF score" or "mean risk"). • Total circuit-miles on the circuit segment. • Total number of overhead circuit-miles on the circuit segment. • Total Tier 1 overhead circuit-miles on the circuit segment. • Total Tier 2 overhead circuit-miles on the circuit segment. • Total Tier 3 overhead circuit-miles on the circuit segment. • Total underground circuit-miles on the circuit segment. • Total Tier 1 underground circuit-miles on the circuit segment. • Total Tier 2 underground circuit-miles on the circuit segment. • Total Tier 3 underground circuit-miles on the circuit segment. • Each risk score (each in a separate and labeled column) identified in question 1(a) that is used at the circuit-segment level to inform wildfire mitigation measures. (May require multiple columns). • Each composite risk score (each in a separate and labeled column) identified in question 2(a) that is used at the circuit-segment level to inform wildfire mitigation measures. (May require multiple columns). 	<p>a) - (f) As stated in the response to Questions 001 - 004, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
470	CaPA	Set WMP-30	CaPA_Set WMP-30	6	CaPA_Set WMP-30_06	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Has E3 or another entity performed an independent review of the WORM v4?</p> <p>If the answer to part (a) is yes, please provide a copy of any report output from the independent review.</p> <p>If the answer to part (a) is no, does PG&E plan to have E3 or a similar entity perform an independent review of the WORM v4?</p> <p>If the answer to part (b) is yes, please explain why not.</p> <p>If the answer to part (b) is yes, when does PG&E expect the review to be completed?</p>	<p>a) - (f) The WORM v4 is currently under review by E3. PG&E expects that the E3 review will be completed and available with the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
471	CaPA	Set WMP-30	CaPA_Set WMP-30	7	CaPA_Set WMP-30_07	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Has PG&E created a detailed overview document that details the WORM v4, similar to the "2021 Wildfire Distribution Risk Model Overview" that PG&E submitted following the public workshop held on October 5 and 6, 2021?</p> <p>If the answer to part (a) is yes, please provide a copy of the document.</p> <p>If the answer to part (a) is no, does PG&E plan to create such a document?</p> <p>If the answer to part (b) is yes, please explain why not.</p> <p>If the answer to part (b) is yes, when does PG&E expect the document to be completed?</p>	<p>a) - (f) As stated in the response to Questions 001 - 005, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update. Along with this model information, PG&E anticipates preparing a similar document as part of the 2025 WMP Update.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
472	CaPA	Set WMP-30	CaPA_Set WMP-30	8	CaPA_Set WMP-30_08	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Page 75 of PG&E's 2023-2025 Wildfire Mitigation Plan Supplemental Response to Revision Notice, September 17, 2023 states, "When we begin using the WORM v4 model in the WORM v4 Wildfire Benefit Cost Analysis, risk rating and project prioritization will include wildfire risk reduction, reliability benefits, public safety, project costs, load-bearing and other factors that are not currently included in the model and benefits of an undergrounding project."</p> <p>Does the WORM v4 include an estimation of reliability benefits, as discussed in the above quote? Please explain if yes.</p> <p>Does the WORM v4 include an estimation of public safety, as discussed in the above quote? Please explain if yes.</p> <p>Does the WORM v4 include an estimation of project costs, as discussed in the above quote? Please explain if yes.</p>	<p>a) - (f) The WORM v4 scope does not include the estimated benefits referred to in parts a, b, and c. Reliability benefits, public safety, and project costs will be considered as part of the WBCB and are not part of the WORM v4.</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
473	CaPA	Set WMP-31	CaPA_Set WMP-31	1	CaPA_Set WMP-31_01	<p>The following questions pertain to PG&E's 2023 - 2025 WMP Review 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders.</p> <p>On page 220 of your 2023 - 2025 WMP FD, PG&E provided a table (Table 8-6-1) showing the total number of past due transmission asset work orders by age and HTF tier. Please provide an updated version of Table 8-6-1, as of September 30, 2023.</p> <p>Number of Past Due Transmission Asset Work Orders Categorized by Age</p> <p>HTFD Area</p> <p>Age</p> <p>HTFD Tier 1</p> <p>HTFD Tier 2</p> <p>HTFD Tier 3</p>	<p>Please see the table below for the requested information.</p> <p>Number of Past Due Transmission Asset Work Orders Categorized by Age</p> <p>Through September 30, 2023</p> <p>HTFD Area = 30 Days 31 - 60 Days 61 - 90 Days 91 - 180 Days 181+ Days</p> <p>HTFD Tier 1: 155 156 155 154 167 159</p> <p>HTFD Tier 2: 155 156 155 154 167 159</p> <p>HTFD Tier 3: 60 54 56 55 55</p>	Holly Wetteman	10/11/2023	10/25/2023	10/23/2023	0	NA	8.1.7	Open Work Orders	NA

589	CAIPA	Set WMP-46	CAIPA_Set WMP-46	2	CAIPA_Set WMP-46_Q2	<p>PG&E's Community Welfare Safety Program website includes two procedures related to Infrared (IR) inspection: TD-1001P-14 and TD-2022P-01.</p> <p>a) Please describe the circumstances in which PG&E utilizes the TD-1001P-14 procedure.</p> <p>b) Please describe the circumstances in which PG&E utilizes the TD-2022P-01 procedure.</p> <p>c) Please provide copies of all current bulletins or job aids associated with TD-1001P-14 that direct inspectors on how to perform IR inspections.</p> <p>d) Please provide copies of all current bulletins or job aids associated with TD-2022P-01 that direct inspectors on how to perform IR inspections.</p> <p>e) Please provide copies of all prior revisions of TD-1001P-14, including bulletins or job aids associated with these prior revisions.</p> <p>f) Please provide copies of all prior revisions of TD-2022P-01, including bulletins or job aids associated with these prior revisions.</p> <p>g) Please identify all procedures (including associated bulletins or job aids) related to infrared inspections of distribution infrastructure that were in effect during 2023.</p> <p>h) Please identify all procedures (including associated bulletins or job aids) related to infrared inspections of distribution infrastructure that were in effect during 2024.</p> <p>i) Please provide copies of each document responsive to part (g) that has not been provided in response to previous parts of this question.</p> <p>j) Please provide copies of each document responsive to part (h) that has not been provided in response to previous parts of this question.</p>	Holly Wetteman	4/17/2024	4/23/2024	4/23/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q2.pdf	16	NA	8.1.3.4	8.0 Welfare Mitigations	8.1.3.4 Infrared Inspection
590	CAIPA	Set WMP-46	CAIPA_Set WMP-46	3	CAIPA_Set WMP-46_Q3	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "2023 OASD Transmission YTD Rate".</p> <p>a) If the answer to part (a) is no, state why not?</p> <p>b) If the answer to part (a) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>c) If the answer to part (b) is no, state why not?</p> <p>d) If the answer to part (b) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>e) If the answer to part (c) is no, state why not?</p> <p>f) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>g) If the answer to part (d) is no, state why not?</p> <p>h) If the answer to part (d) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q3.pdf	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
591	CAIPA	Set WMP-46	CAIPA_Set WMP-46	4	CAIPA_Set WMP-46_Q4	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "2023 OASD Transmission YTD Rate".</p> <p>a) If the answer to part (a) is no, state why not?</p> <p>b) If the answer to part (a) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>c) If the answer to part (b) is no, state why not?</p> <p>d) If the answer to part (b) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>e) If the answer to part (c) is no, state why not?</p> <p>f) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>g) If the answer to part (d) is no, state why not?</p> <p>h) If the answer to part (d) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q4.pdf	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
592	CAIPA	Set WMP-46	CAIPA_Set WMP-46	5	CAIPA_Set WMP-46_Q5	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "Transmission Quality".</p> <p>a) Please define "QC Date" (column D).</p> <p>b) Does PG&E have a standard for the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>c) If the answer to part (b) is yes, what is the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>d) If the answer to part (c) is no, state why not?</p> <p>e) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>f) If the answer to part (d) is no, state why not?</p> <p>g) If the answer to part (d) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>h) If the answer to part (e) is no, state why not?</p> <p>i) If the answer to part (e) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q5.pdf	1	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
593	CAIPA	Set WMP-46	CAIPA_Set WMP-46	6	CAIPA_Set WMP-46_Q6	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "Transmission Quality".</p> <p>a) Please define "QC Date" (column D).</p> <p>b) Does PG&E have a standard for the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>c) If the answer to part (b) is yes, what is the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>d) If the answer to part (c) is no, state why not?</p> <p>e) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p> <p>f) If the answer to part (d) is no, state why not?</p> <p>g) If the answer to part (d) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q6.pdf	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
594	CAIPA	Set WMP-46	CAIPA_Set WMP-46	7	CAIPA_Set WMP-46_Q7	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "Flow Cleaning".</p> <p>a) Please define "QC Date" (column D).</p> <p>b) Does PG&E have a standard for the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>c) If the answer to part (b) is yes, what is the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>d) If the answer to part (c) is no, state why not?</p> <p>e) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q7.pdf	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
595	CAIPA	Set WMP-46	CAIPA_Set WMP-46	8	CAIPA_Set WMP-46_Q8	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "Flow Cleaning".</p> <p>a) Please define "QC Date" (column D).</p> <p>b) Does PG&E have a standard for the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>c) If the answer to part (b) is yes, what is the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>d) If the answer to part (c) is no, state why not?</p> <p>e) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q8.pdf	1	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)
596	CAIPA	Set WMP-46	CAIPA_Set WMP-46	9	CAIPA_Set WMP-46_Q9	<p>In response to data request CAIPA/CAIPA-PGE-2023WMP-03, question 1, PG&E provided attachment "WMP-Discovery2023-2025_DR_CaIA/CAIPA-039-0001 Amdt3.docx". The following questions refer to the lab "Flow Cleaning".</p> <p>a) Please define "QC Date" (column D).</p> <p>b) Does PG&E have a standard for the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>c) If the answer to part (b) is yes, what is the maximum amount of time that is allowable between an inspection and the QC date?</p> <p>d) If the answer to part (c) is no, state why not?</p> <p>e) If the answer to part (c) is yes, please provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer.</p>	Holly Wetteman	4/17/2024	4/25/2024	4/25/2024	https://www.pge.com/~/media/Files/CAIPA/CAIPA_Set_WMP-46_Q9.pdf	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6 Quality Assurance (QA)

597	CAFA	Sat WMP-46	CAFA_Sat_WMP-46	10	CAFA_Sat_WMP-46_Q10	<p>In response to data request CAFA/CAFA-PGE-2023/WMP-03, question 1, PG&E provided attachment "WMP-Update2023-2025_DR_Cat_Capabilities_039-2000-0000.docx" which relates to asset inspections in 2023. Line 16 indicates that, out of 1263 distribution intrusive pole inspections reviewed by desktop QC, 1677 failed QC. Line 17 indicates that, out of 1491 distribution intrusive pole inspections reviewed by field QC, 1021 failed QC. How PG&E made any changes to its intrusive inspection practices for distribution pole inspections as a result of the high QC failure rates?</p> <p>If the answer to part (a) is yes, describe the changes PG&E has made.</p> <p>If the answer to part (a) is no, state why not.</p> <p>If PG&E made any changes to its QC review process for intrusive inspections of distribution poles as a result of the high QC failure rates?</p> <p>If the answer to part (a) is yes, describe the changes PG&E has made.</p> <p>If the answer to part (a) is no, state why not.</p> <p>Provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer to part (f).</p> <p>If the answer to part (a) is no, state why not.</p> <p>Please describe any other actions PG&E took as a result of the high QC failure rates in 2023 noted above.</p> <p>What were the primary reasons for distribution intrusive pole inspections to fail desktop QC review in 2023?</p> <p>What were the primary reasons for distribution intrusive pole inspections to fail field QC review in 2023?</p>	<p>Please see the responses to Question No. 009, subpart (a) to (k), which also apply to the information sought.</p>	Holly Wetman	4/17/2024	4/25/2024	4/25/2024	0	NA	8.1.6	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
598	OEIS	016	OEIS_016	1	OEIS_016_Q1	<p>201. Regarding PG&E's Response to PG&E-23-15</p> <p>In PG&E's response to PG&E-23-15, it says that "the following information will be digitally recorded for trees prescribed for removal."</p> <p>Did PG&E enhance the One VM application for Routine, and Second Patrol to include capability to capture factors for prescribing trees for removal" by its target completion date of 1/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated target completion date for inclusion of this capability in One VM.</p> <p>Provide the One VM form that "captures" factors for prescribing trees for removal."</p> <p>In PG&E on track to "Enhance the application for the Vegetation Management for Operational Mitigation (VMOM) - MPP, and Tree Removal Inventory (TRI) - Field Maps" program to include capability to capture factors for prescribing trees for removal" by its target completion date of 1/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated target completion date for this planned enhancement.</p> <p>In PG&E's response to PG&E-23-15, it says that "PG&E will be making digital record enhancements to FTI potential risk trees."</p> <p>Did PG&E enhance record keeping practices for the Focused Tree Inspection program (FTI) by creating records of all potential risk trees inspected using a digital Tree Risk Assessment form" by its target completion date of 3/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated timeline for inclusion of this capability in One VM.</p> <p>Provide PG&E's digital Tree Risk Assessment form.</p>	<p>1. Yes, PG&E completed our enhancement of the One VM application for Routine and Second Patrol to include capabilities to capture factors for prescribing trees for removal by January 31, 2024.</p> <p>2. Please see the 2 Month Meeting "WMP-Overview2023-2025_DR_OEIS_016-0001A001CONF.pdf" delivered to VM personnel via VM Program Communications on January 31, 2024, that calls out the requirement to document reasons for removal within system of record.</p> <p>3. Please see Utility Bulletin TD-1102P-01-0006 "WMP-Overview2023-2025_DR_OEIS_016-0001A002CONF.pdf" referenced in the SRM published on January 30, 2024 with an effective date of January 30, 2024 that provides instructions on how to document "reasons for removal" within One VM.</p> <p>4. Please note, PG&E believes the use of "form" here is incorrect. One VM is an application and the enhancement referenced above was completed within the One VM mobile application used by our VM personnel.</p> <p>5. The VM mobile application utilized by our VM personnel.</p> <p>Please see attachments below whereby that this field is now available in the One VM application.</p> <p>Please see "WMP-Overview2023-2025_DR_OEIS_016-0001A003.pdf" for additional examples of the "Removal Reason" field in the One VM application.</p> <p>6. Yes, PG&E is still on track to enhance VMOM and TRI program to include the capability to capture factors for prescribing trees for removal by November 15, 2024.</p> <p>Please note, since this objective was within the timeline of programs to be onboarded onto the One VM platform has changed, and by the time this objective is due, both the VMOM and TRI programs will be integrated into the One VM platform, and no longer utilizing VMPO or Field Maps. The One VM application already captures factors for prescribing trees for removal, so the objective itself will still be met.</p> <p>7. Yes, PG&E completed the digitization of the TRAQ form on March 25, 2024. New enhancements are required for us to fully onboard TRAQ items in One VM, this work is underway and the use of the desktop TRAQ items Q2-Q3 2024.</p>	Brad Hill	4/22/2024	4/25/2024	4/25/2024	4	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-15 Implementation of Focused Tree Inspections and Addressing the Risk from Hazard Trees
598	OEIS	016	OEIS_016	19A	OEIS_016_19A	<p>201. Regarding PG&E's Response to PG&E-23-15</p> <p>In PG&E's response to PG&E-23-15, it says that "the following information will be digitally recorded for trees prescribed for removal."</p> <p>Did PG&E enhance the One VM application for Routine, and Second Patrol to include capability to capture factors for prescribing trees for removal" by its target completion date of 1/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated target completion date for inclusion of this capability in One VM.</p> <p>Provide the One VM form that "captures" factors for prescribing trees for removal."</p> <p>In PG&E on track to "Enhance the application for the Vegetation Management for Operational Mitigation (VMOM) - MPP, and Tree Removal Inventory (TRI) - Field Maps" program to include capability to capture factors for prescribing trees for removal" by its target completion date of 1/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated target completion date for this planned enhancement.</p> <p>In PG&E's response to PG&E-23-15, it says that "PG&E will be making digital record enhancements to FTI potential risk trees."</p> <p>Did PG&E enhance record keeping practices for the Focused Tree Inspection program (FTI) by creating records of all potential risk trees inspected using a digital Tree Risk Assessment form" by its target completion date of 3/31/2024?</p> <p>If not, explain the reason for the delay and provide an updated timeline for inclusion of this capability in One VM.</p> <p>Provide PG&E's digital Tree Risk Assessment form.</p>	<p>1. Yes, PG&E completed our enhancement of the One VM application for Routine and Second Patrol to include capabilities to capture factors for prescribing trees for removal by January 31, 2024.</p> <p>2. Please see the 2 Month Meeting "WMP-Overview2023-2025_DR_OEIS_016-0001A001CONF.pdf" delivered to VM personnel via VM Program Communications on January 31, 2024, that calls out the requirement to document reasons for removal within system of record.</p> <p>3. Please see Utility Bulletin TD-1102P-01-0006 "WMP-Overview2023-2025_DR_OEIS_016-0001A002CONF.pdf" referenced in the SRM published on January 30, 2024 with an effective date of January 30, 2024 that provides instructions on how to document "reasons for removal" within One VM.</p> <p>4. Please note, PG&E believes the use of "form" here is incorrect. One VM is an application and the enhancement referenced above was completed within the One VM mobile application used by our VM personnel.</p> <p>5. The VM mobile application utilized by our VM personnel.</p> <p>Please see "WMP-Overview2023-2025_DR_OEIS_016-0001A003.pdf" for additional examples of the "Removal Reason" field in the One VM application.</p> <p>6. Yes, PG&E is still on track to enhance VMOM and TRI program to include the capability to capture factors for prescribing trees for removal by November 15, 2024.</p> <p>Please note, since this objective was within the timeline of programs to be onboarded onto the One VM platform has changed, and by the time this objective is due, both the VMOM and TRI programs will be integrated into the One VM platform, and no longer utilizing VMPO or Field Maps. The One VM application already captures factors for prescribing trees for removal, so the objective itself will still be met.</p> <p>7. Yes, PG&E completed the digitization of the TRAQ form on March 25, 2024. New enhancements are required for us to fully onboard TRAQ items in One VM, this work is underway and the use of the desktop TRAQ items Q2-Q3 2024.</p>	Brad Hill	4/22/2024	6/1/2024	6/1/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-15 Implementation of Focused Tree Inspections and Addressing the Risk from Hazard Trees
599	OEIS	016	OEIS_016	2	OEIS_016_Q2	<p>202. Regarding PG&E's Quarterly Targets for Routine Patrol</p> <p>In PG&E's 2023 WMP Update, PG&E sets quarterly targets for Routine Patrol - Distribution (VM-16) 2023 and 2024 targets are included for reference.</p> <p>PG&E's Routine Patrol Targets by Year in Circuit Mileage</p> <p>End of Year</p> <p>End of Q2</p> <p>End of Year</p> <p>2023</p> <p>41,703</p> <p>81,806</p> <p>79,200</p> <p>2024</p> <p>79,200</p> <p>58,988</p> <p>79,200</p> <p>2025</p> <p>79,200</p> <p>58,988</p> <p>% to 2023-2025</p> <p>28.2%</p> <p>-16.2%</p> <p>1%</p> <p>While PG&E's end of year target has remained relatively constant from 2023 to 2025, the end of Q2 and end of Q3 targets have decreased.</p> <p>Why have PG&E's end of Q2 and end of Q3 targets for routine patrol decreased over time since 2023?</p> <p>What percentage of PG&E's end of Q2 and end of Q3 2023 targets will be completed within the HFYD?</p> <p>How will PG&E ensure that the end of Q2 and end of Q3 2023 targets will be completed within the HFYD?</p> <p>What are the high risk areas that high risk areas were inspected in a timely manner to mitigate wildfire risk before and during wildfire season?</p>	<p>1. The targets were reduced in Q2 and Q3 in subsequent years to provide the contractors team with greater flexibility during the course of the year. PG&E anticipated contractors to be able to change a software platform, incorporate user feedback and vegetation program inspections into the routine patrol where possible, and changes to other VM programs that would impact routine patrol. The weather and other external factors can also cause delays in the inspection schedule.</p> <p>2. Approximately 55% of Q2 and mileage is included in HFYD, and approximately 40% of Q3 and mileage is included in HFYD.</p> <p>3. PG&E has designed a program through the routine and second patrols to patrol the HFYD/RPA portions of the system twice a year. Once in the first half and once in the second half. Q2, in other words, once in the routine patrol and once in the second patrol.</p>	Brad Hill	4/22/2024	4/25/2024	4/25/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-15 Decrease in Desired Distribution Inspections
600	OEIS	016	OEIS_016	3a2)	OEIS_016_Q3a2)	<p>203. Regarding PG&E's Adjustments to WORM</p> <p>In its 2023 WMP Update, PG&E discusses the changes made between its Wildlife Distribution Risk Model (WORM) Version 3 (V3) to Version 4 (V4). Based off these changes, provide:</p> <p>a. An updated version of Table 6-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>b. An updated version of Table 7-2 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>c. An updated version of Figure 7-1 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>d. An updated version of Table 7-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>e. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-PG&E-22-016 Question 17 showing the difference in output between V3 and V4.</p>	<p>PG&E released WORM v4 for use in January of 2024 and is currently evaluating feedback from users before plans anticipated to be released PG&E-2025 WMP. Much of the analysis for the tables and figures requested in parts (a) through (f) below are included in this work and underway. As the analysis only recently started and is still ongoing, parts (a) through (e) and (f) will require more time and part (a) will be available early in 2024.</p> <p>Please let us know if you would like to meet and confer to discuss this request, the work that needs to be done to create the requested information, and any other information that is currently available.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>PG&E will provide the information once it is available. However, we anticipate this analysis taking several months to complete as the WORM v4 model was only recently released. We will provide this information as soon as it is available.</p>	Brad Hill	4/22/2024	4/25/2024	1/14/2024	0	NA	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
600	OEIS	016	OEIS_016	3	OEIS_016_Q3	<p>203. Regarding PG&E's Adjustments to WORM</p> <p>In its 2023 WMP Update, PG&E discusses the changes made between its Wildlife Distribution Risk Model (WORM) Version 3 (V3) to Version 4 (V4). Based off these changes, provide:</p> <p>a. An updated version of Table 6-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>b. An updated version of Table 7-2 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>c. An updated version of Figure 7-1 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>d. An updated version of Table 7-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>e. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-PG&E-22-016 Question 17 showing the difference in output between V2 and V3.</p>	<p>PG&E released WORM v4 for use in January of 2024 and is currently evaluating feedback from users before plans anticipated to be released PG&E-2025 WMP. Much of the analysis for the tables and figures requested in parts (a) through (f) below are included in this work and underway. As the analysis only recently started and is still ongoing, parts (a) through (e) and (f) will require more time and part (a) will be available early in 2024.</p> <p>Please let us know if you would like to meet and confer to discuss this request, the work that needs to be done to create the requested information, and any other information that is currently available.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>The information being requested is under development and anticipated to be available around May 8, 2024.</p> <p>PG&E will provide the information once it is available. However, we anticipate this analysis taking several months to complete as the WORM v4 model was only recently released. We will provide this information as soon as it is available.</p>	Brad Hill	4/22/2024	4/25/2024	4/25/2024	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models

800	OEIS	016	OEIS_016	3a)	OEIS_016_03a)	<p>003. Regarding PG&E's Adjustments to its WORM in the 2025 WMP Update, PG&E discusses the changes made between the Wildfire Distribution Risk Model (WORM) Version 3 (V3) to Version 4 (V4). Based off these changes, provide:</p> <ol style="list-style-type: none"> An updated version of Table 6.4 from the 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4. An updated version of Table 6.7 from the 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4. An updated version of Table 6.8 from the 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4. An updated version of Table 6.9 from the 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-P&E-22-016 Question 17 showing the difference in output between V2 and V3. 	Brad Hill	4/22/2024	5/8/2024	5/8/2024	https://www.pge.com/forms/Topic/03a/03a.html	1	NA	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
801	MORA	Data Request No. 12	MORA_Data Request No. 12	1	MORA_Data Request No. 12_01	<p>Please provide an Excel spreadsheet giving the mapping between PG&E weather station IDs and IDs used by Synlogic for the PG&E weather if these IDs are different.</p>	Joseph Mitchell	4/25/2024	4/30/2024	4/29/2024	https://www.pge.com/forms/Topic/012/012.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI P&E-23-21 - Weather Station Maintenance and Calibration
802	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	1	Green Power Institute (GPI)_003_01	<p>Please provide any PG&E slides, meeting materials, and meeting minutes generated for and/or presented at the Joint IOU meeting held in 2023 to discuss the different types of programs and practices each IOU has in place for discussing and receiving steady state and regulation (1).</p> <p>[1] SDG&E 2025 WMP Update, April 2, 2024, pp. 53-53</p>	Zoe Harold	4/29/2024	5/1/2024	5/1/2024	https://www.pge.com/forms/Topic/003/003.html	6	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management
803	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	2	Green Power Institute (GPI)_003_02	<p>Please provide any PG&E slides, meeting materials, and meeting minutes generated for and/or presented at the Joint IOU meeting held in 2023 to discuss each utility's respective fuel management programs and begin initial collaboration on a possible scoping study to best practices and efficacy of fuel management (2).</p> <p>[2] SDG&E 2025 WMP Update, April 2, 2024, pp. 53-53</p>	Zoe Harold	4/29/2024	5/1/2024	5/1/2024	https://www.pge.com/forms/Topic/003/003.html	8	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management
804	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	3	Green Power Institute (GPI)_003_03	<p>Please provide a summary of any developments since the 2023 meeting and working sessions towards meeting a Joint IOU scoping study on best practices and efficacy of fuel management, including but not limited to planned topics for inclusion in the scoping study.</p>	Zoe Harold	4/29/2024	5/1/2024	5/1/2024	https://www.pge.com/forms/Topic/003/003.html	0	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management
805	OEIS	017	OEIS_017	1	OEIS_017_01	<p>Regarding the Joint Utility Covered Conductor Effectiveness Weekly Meetings</p> <p>PG&E 2023 Update mentions that it participated in weekly meetings with utilities in 2023 to benchmark and share information regarding covered conductor effectiveness. It is 48 responses to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Including Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety". Please explain the following:</p> <ol style="list-style-type: none"> The first month these meetings began. Which utilities were present at these weekly meetings. If these meetings were in response to a specific Area of Continued Improvement. If so, please state which Area of Continued Improvement. If not, please state what directive these meetings were in response to. 	Brad Hill	4/29/2024	5/2/2024	5/2/2024	https://www.pge.com/forms/Topic/017/017.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI P&E-24-04
806	OEIS	017	OEIS_017	2	OEIS_017_02	<p>Regarding the Utility Understanding Working Group Meetings</p> <p>PG&E 2023 Update mentions that "Lastly, the utility also developed an understanding working group to discuss lessons learned and the challenges associated with understanding." It is 48 responses to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Including Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety". Please explain the following:</p> <ol style="list-style-type: none"> The general duration of these meetings. Are these meetings weekly or quarterly meetings? Please specify. If these meetings were in response to a specific Area of Continued Improvement. If so, please state which Area of Continued Improvement. If not, please state what directive these meetings were in response to. 	Brad Hill	4/29/2024	5/2/2024	5/2/2024	https://www.pge.com/forms/Topic/017/017.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI P&E-24-04
807	OEIS	017	OEIS_017	3	OEIS_017_03	<p>Regarding the Standing Joint Utility Monthly Meetings</p> <p>PG&E 2023 Update mentions that "Furthermore, as described above, PG&E, SCE, and SDG&E developed a standing monthly joint utility meeting, meeting 4 times in 2023 and 6 times in 2024." It is 48 responses to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Including Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety". Please provide the following:</p> <ol style="list-style-type: none"> The agenda for each meeting. Each meeting's session date, time, and host organization. Are there any plans to include these meetings in 2025? If not, please state why and/or future attempts to include these meetings. 	Brad Hill	4/29/2024	5/2/2024	5/2/2024	https://www.pge.com/forms/Topic/017/017.html	4	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI P&E-24-04

Pre-Discovery 56	MGRA	008	MGRA_Data_Request No. 8	2	MGRA_Data_Request No. 8_Q2	Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	In response to the request, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line Feature Classes, as defined in the 2023 Energy Safety GIS Data Standard Submissions. As requested, PG&E is not providing the Transmission Line Feature Class. Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the data requested in response to this request.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 56	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	261	MGRA_Data_Request No. 8_Q2a)	Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 57	MGRA	008	MGRA_Data_Request No. 8	3	MGRA_Data_Request No. 8_Q3	Provide PPSIS event data, include Event Log, Event Line, Event Polygon data. Please exclude customer data. Provide all PPSIS Event Asset Damage data including photos.	In response to the request, PG&E is unable to provide Public Safety Power Shutoff (PPSIS) event data for the Quarter Q1, Q2, and Q3 2023 submissions as no PPSIS events took place these quarters. The PPSIS event data is not included in the 2023 PPSIS submission. As requested, non-confidential data is included in the response. Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the data requested in response to this request.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 57	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	303	MGRA_Data_Request No. 8_Q3a)	Provide Risk Event Point data, include Event Log, Event Line, Event Polygon data. Please exclude customer data. Provide all PPSIS Event Asset Damage data including photos.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/22/2024	4/22/2024	https://www.pge.com/~/media/Files/2023/04/22/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 58	MGRA	008	MGRA_Data_Request No. 8	4	MGRA_Data_Request No. 8_Q4	Provide Risk Event Point data, include Wire Down, Upright, Transmission equipment outage (as identified non-confidential), Distribution Vegetation Caused Unplanned Outage, Risk Event Asset Log.	In response to the request, PG&E is providing non-confidential data for the Wire Down, Upright, Unplanned Outage, and Risk Event Asset Log data as allowed in the 2023 Energy Safety GIS Data Standard Submissions. Energy Safety changed its schema for version 3.1 of the Data Standard and combined all Outage Feature Classes into a single feature class. Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the data requested in response to this request.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 58	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	401	MGRA_Data_Request No. 8_Q4a)	Please provide for Asset Point data for Canvies, Fuse, Support Structure, and Weather Station.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/22/2024	4/22/2024	https://www.pge.com/~/media/Files/2023/04/22/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 59	MGRA	008	MGRA_Data_Request No. 8	5	MGRA_Data_Request No. 8_Q5	Under Intervals, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this file.	In response to the request, PG&E is providing non-confidential data for the Grid Hardening Point and Grid Hardening Line feature classes, as defined in the 2023 Energy Safety GIS Data Standard Submissions. Energy Safety changed its schema for version 3.1 of the Data Standard and combined all Grid Hardening Log feature classes. Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the data requested in response to this request.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 59	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	500	MGRA_Data_Request No. 8_Q5a)	Under Intervals, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this file.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/22/2024	4/22/2024	https://www.pge.com/~/media/Files/2023/04/22/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 60	MGRA	008	MGRA_Data_Request No. 8	6	MGRA_Data_Request No. 8_Q6	Under Other Required Data, please provide Red Flag Warning Day polygon data.	In response to the request, PG&E is providing non-confidential data for the Red Flag Warning Day polygon data for Q2-Q4 2023 feature class, as delivered in the 2023 Energy Safety GIS Data Standard Submissions. PG&E is unable to provide the Red Flag Warning Day polygon data for the Q1 2023 submission as there were no Red Flag Warnings that night. Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the data requested in response to this request.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 60	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	600	MGRA_Data_Request No. 8_Q6a)	Under Other Required Data, please provide Red Flag Warning Day polygon data.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/22/2024	4/22/2024	https://www.pge.com/~/media/Files/2023/04/22/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 61	MGRA	008	MGRA_Data_Request No. 8	7	MGRA_Data_Request No. 8_Q7	Please provide a layer including calculated circuit-break risk using the methodology presented in the WMP. Please provide the reliability and consequence layers used, please provide these independently as well.	The requested circuit-breaker risk results that correspond with the request for Q1-Q4 2024 data are the Wildlife Distribution Risk Model (WDRM) results that were provided previously in WMP-Disclosure2023-2025_DR_MGRA_001-G01 and submitted to the Master Grid Risk Alliance on April 7, 2023. PG&E's 2023 WDRM is updated to include the Wildlife Risk model (WDRM v4) is outlined. At this time the model has recently been internally approved for use in developing future wildfire WDRM v4 risk analysis and will be for release in the 2025 WMP.	Joseph Michael	3/1/2023	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/04/05/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Response Operations for Potential Fault Outages in the Higher Risk Areas
Pre-Discovery 61	MGRA	Data Request No. 8	MGRA_Data_Request No. 8	701	MGRA_Data_Request No. 8_Q7a)	Please provide a layer including calculated circuit-break risk using the methodology presented in the WMP. Please provide the reliability and consequence layers used, please provide these independently as well.	Please see attachment "WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.	Joseph Michael	3/1/2023	4/22/2024	4/22/2024	https://www.pge.com/~/media/Files/2023/04/22/WMP-Disclosure2023-2025_DR_MGRA_008-Q01AIH01.xls	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Response Operations for Potential Fault Outages in the Higher Risk Areas
Pre-Discovery 62	CaPA	Set WMP-39	CaPA_Sat WMP-39	1	CaPA_Sat WMP-39_Q1	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that have been completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2023-2025 Base WMP.	PG&E recently has managed Quality Assurance (QA)/Quality Control (QC) with our individualized functional areas. In 2023, PG&E formalized its independent quality management system in support of the System Inspection and Vegetation Management functional areas. As a result, the response provided for 2023 aligns with data produced to address 2022 commitments. Please see the eight attachments identified below for details of QA/QC performed for the following programs: <ul style="list-style-type: none"> Vegetation Management Routine Distribution Vegetation Management Routine Transmission System Inspection Distribution and Transmission System Inspection Transmission ATTACHMENTS <ul style="list-style-type: none"> WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH01.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH02.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH03.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH04.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH05.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH06.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH07.xlsx WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH08.xlsx 	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/22/WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q01AIH01-08.xlsx	8	NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
Pre-Discovery 63	CaPA	Set WMP-39	CaPA_Sat WMP-39	2	CaPA_Sat WMP-39_Q2	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that have been completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2023-2025 Base WMP. External entities include, but are not limited to, consultants, contractors, auditors, court-appointed monitors, and independent Evaluators.	PG&E's response to the request was a tiered report from the Independent Safety Monitor was provided to the CIRC on March 29, 2024, and published by the CIRC on April 4, 2024. All reports from the Independent Safety Monitor, including the most recent report, can be found at the following link: https://www.pge.com/~/media/Files/2023/03/29/ISMS-2023-2025-Report-2024-04-04.pdf . The reports discuss a number of functional areas and programs, including programs and initiatives that are in progress.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/29/ISMS-2023-2025-Report-2024-04-04.pdf	0	NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
Pre-Discovery 64	CaPA	Set WMP-39	CaPA_Sat WMP-39	3	CaPA_Sat WMP-39_Q3	Provide an Excel table of all defects in the year 2022 found by Energy Safety's Compliance Branch (as rows) that includes the following information in separate columns: a) Associated circuit name b) Defect type c) Description of defect d) O&M status (from your 2023-2025 WMP) associated with defect e) Date that the defect was identified f) Date that the defect was corrected g) If the defect had yet been corrected as of the issuance date of this data request, a brief explanation of the status of the defect (e.g., work in progress, scheduled to occur during planned h) Description of the status of the defect (e.g., scheduled to occur during planned i) Description of the status of the defect (e.g., scheduled to occur during planned	Please refer to the attachment to this response contains CONFIDENTIAL information in support of the appropriate confidentiality classification. Please see attachment "WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q03AIH01CONF.xlsx" for the requested information.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/22/WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q03AIH01CONF.xlsx	1	NA	11	Section 11 - Corrective Action Program	11.3 Corrective Action Program - Addressing Finding Energy Safety's Compliance Assurance Division (i.e., audits and review of defect and violation)
Pre-Discovery 65	CaPA	Set WMP-39	CaPA_Sat WMP-39	4	CaPA_Sat WMP-39_Q4	For each WMP initiative for which you forecast capital expenditures in 2025 to be at least two times actual capital expenditures in 2023, please provide: a) The name of the initiative as it is identified in your 2025 WMP Update. b) The WMP initiative number in Table 11 of your 2022 WMP Update. c) The name of the initiative as it is identified in your 2022-2025 Base WMP. d) The WMP initiative number in Table 11 of your 2023-2025 Base WMP. e) An explanation for the projected increase.	There are two WMP initiatives that fall in the population requested above, where the forecast capital expenditures in 2025 are at least two times the actual capital expenditures in 2023: (1) customer support initiative and PPSIS emergencies; and (2) reduction overhead hardening. (1) Customer support initiative and PPSIS emergencies a) Traditional Overhead Hardening b) Name of initiative: Emergency Preparedness - Customer Support in Wildfire and PPSIS Emergencies c) Customer Support in Wildfire and PPSIS Emergencies d) Grid Design, Operations, and Maintenance - Traditional Overhead Hardening e) PG&E is providing the name of the activity category in lieu of the initiative number for this initiative. (2) Reduction Overhead Hardening a) Name of initiative: Emergency Preparedness - Customer Support in Wildfire and PPSIS Emergencies. b) PG&E is providing the name of the activity category in lieu of the initiative number for this initiative. c) Same as above in part a. Same as above in part b. d) Same as above in part a. Same as above in part b. e) The difference is due to PG&E having lower forecast PPSIS activities in 2023 and, therefore, the need to replace capital hardware (for example, phones, laptops, etc.) Note: actual response was null.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/22/WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q04.xlsx	0	NA	4	Section 4 - Overview of WMP	4.3 Proposed Expenditures
Pre-Discovery 66	CaPA	Set WMP-39	CaPA_Sat WMP-39	5	CaPA_Sat WMP-39_Q5	For each WMP initiative for which you forecast operating expenditures in 2025 to be at least two times actual operating expenditures in 2023, please provide: a) The name of the initiative as it is identified in your 2025 WMP Update. b) The WMP initiative number in Table 11 of your 2022 WMP Update. c) The name of the initiative as it is identified in your 2022-2025 Base WMP. d) The WMP initiative number in Table 11 of your 2023-2025 Base WMP. e) An explanation for the projected increase.	There are three WMP initiatives that fall in the population requested above, where the forecast operating expenditures in 2025 are at least two times actual operating expenditures in 2023: (1) fire mitigation, (2) mitigation, and (3) fire-resilient operations. 1. Fire Mitigation - Mitigation 3: Fire-Resilient Right-of-Ways a) Vegetation Management b) Grid Design - Path c) Grid Design - Operations and Maintenance/Microgrids d) Vegetation Management and Inspection - Fire Resilient Right-of-Way e) Fire Mitigation 2: Mitigation 3: Fire-Resilient Right-of-Ways 2. Mitigation a) PG&E is providing the name of the activity category in lieu of the initiative number for this initiative. b) Same as above in part a. c) Same as above in part a. d) Same as above in part a. e) The difference is due to PG&E having lower forecast PPSIS activities in 2023 and, therefore, the need to replace capital hardware (for example, phones, laptops, etc.) Note: actual response was null.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/22/WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q05.xlsx	0	NA	4	Section 4 - Overview of WMP	4.3 Proposed Expenditures
Pre-Discovery 67	CaPA	Set WMP-39	CaPA_Sat WMP-39	6	CaPA_Sat WMP-39_Q6	Please fill out the attached spreadsheet, CaPAInhouse-PGE-2023WMP-03 Attachment 1, requesting information regarding your asset inspections in 2023.	Please see attachment "WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q06AS01.xls" for the requested information.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/~/media/Files/2023/03/22/WMP-Disclosure2023-2025_DR_CaPAInhouse_009-Q06AS01.xls	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3 Asset Inspections

Pre-Discovery 75	CaPA	Set WMP-30	CaPA_Set WMP-30	1400	CaPA_Set WMP-30_Q1400	<p>Has PG&E's Asset Failure Analysis Team usually corrected any gridlines that occurred in 2023 to assess with existing assets or vegetation corrective notifications at the time of ignition?</p> <p>If the answer to part (a) is yes, please provide the following information for each gridline:</p> <p>1. Unique gridline ID (including the previous question)</p> <p>2. Date of ignition</p> <p>3. Cause(s) identified by the Asset Failure Analysis Team</p> <p>The type of corrective notification that was issued to the gridline (i.e., the priority level and whether it related to asset management or vegetation management)</p> <p>4. Copies of associated reports or investigations performed by the Asset Failure Analysis Team.</p>	<p>Please note the attachments to this response contain CONFIDENTIAL information provided pursuant to the accompanying confidentiality declaration.</p> <p>a) Yes, PG&E has corrected gridlines that occurred in 2023 to assess with existing assets or vegetation corrective notifications at the time of ignition.</p> <p>b) Please use the table below for links to the requested information.</p> <p>Ignition ID system</p> <p>Date</p> <p>Report</p> <p>Corrective Notification (Type and Description)</p> <p>Asset Name</p> <p>202301151123</p> <p>Wire</p> <p>Over line</p> <p>Internal</p> <p>Line end</p> <p>and</p> <p>connector</p> <p>Tape</p> <p>EC Notification 121485810 (E Priority)</p> <p>Division approved filing #F</p> <p>WMP-Discovery2023-2025_OR_CaAdvocates_039-G014K4801CONF.pdf</p> <p>2023062609101623</p> <p>3rd party</p> <p>Notice</p> <p>Inspection</p> <p>Final report</p> <p>Ignition ID</p>	Holly Wetteman	5/15/2024	5/16/2024	5/16/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	4	NA	NA	Section 8.3 - Structural Elements and Awareness	8.3.4 Existing Ignition Detection Sensors and Systems
Pre-Discovery 76	CaPA	Set WMP-30	CaPA_Set WMP-30	15	CaPA_Set WMP-30_Q15	<p>On page 144 of PG&E's 2023-2025 WMP-PA, January 9, 2024, PG&E stated that it was reviewing its field safety reassessment procedures (TD-8123P-200) and expected to publish the revised procedure by the end of 2023.</p> <p>Has PG&E published the revised TD-8123P-200 procedure?</p> <p>If the answer to part (a) is yes, briefly describe the substance of the changes to the procedure.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to publish the revised TD-8123P-200 procedure.</p>	<p>Please note the attachment to this response contains CONFIDENTIAL information provided pursuant to the accompanying confidentiality declaration.</p> <p>a) Yes, PG&E published the revised TD-8123P-200 procedure on December 29, 2023.</p> <p>b) For the responses to "SRO1782", "C", "Caution, Complete Action Compliance, Follow Up - Observer Flag", submitted to the CPUC on February 9, 2024, the TD-8123P-200 procedure was updated to reflect the "Observer Flag" and "Follow Up" information from the Electric Connection (EC) Notifications require a Field Safety Reassessment (FSR).</p> <p>c) Quality control (QC) review to remove any PTEs or IR inspections from FSR.</p> <p>d) A 90-day validation process to check for cancellation of notifications created by either PTEs or IR inspections.</p> <p>e) S&P and Impact Age enhancements allowing inspectors to note that additional asset fault conditions have been identified in the field on that tag. The reason updates are flagged for review.</p> <p>f) Please see attachment "WMP-Discovery2023-2025_OR_CaAdvocates_039-G015A4801CONF.pdf" for the requested information. Please note that the attachment contains confidential information.</p> <p>g) Not applicable.</p> <p>h) Not applicable.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	1	NA	8	Section 8.1.7 - Open Work Orders	8.1.7.2 Open Work Orders - Distribution Tags
Pre-Discovery 77	CaPA	Set WMP-30	CaPA_Set WMP-30	16	CaPA_Set WMP-30_Q16	<p>In response to data request CaAdvocates-PGE-2023WMP-19 question 15, April 28, 2024, PG&E stated that it was actively analyzing the effectiveness of both covered conductor and bare conductor in combination with EPSS and DCCWP. PG&E stated that anticipated completing the analysis in 2025.</p> <p>Has PG&E completed the analysis mentioned above?</p> <p>If the answer to part (a) is yes, please provide a copy of any reports or other output from the analysis.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to complete the analysis.</p>	<p>a) No. The final analysis has been drafted but is not yet complete.</p> <p>b) Not applicable.</p> <p>c) PG&E is internally validating the results for quality review in preparation for the SB 884 10 Year Underpinning Plan.</p> <p>d) The analysis will be included in our SB 884 10 year underpinning plan, which is expected to be filed later this year. The timing of the filing, however, is dependent on when we receive the necessary publications from Energy Safety.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	0	NA	8.1.2	Grid Design and System Hardening	Vegetation
Pre-Discovery 78	CaPA	Set WMP-30	CaPA_Set WMP-30	17	CaPA_Set WMP-30_Q17	<p>In response to data request CaAdvocates-PGE-2023WMP-19 question 6, August 16, 2023, PG&E stated that it was conducting a Substation Animal Abatement Effectiveness Study in partnership with Electric Power Research Institute by Q1 of 2024.</p> <p>Has PG&E completed the Substation Animal Abatement Effectiveness Study?</p> <p>If the answer to part (a) is yes, please provide a copy of any reports or other output from the Substation Animal Abatement Effectiveness Study.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to complete the Substation Animal Abatement Effectiveness Study.</p>	<p>a) No. The final analysis has been drafted but is not yet complete.</p> <p>b) Not applicable.</p> <p>c) PG&E is internally validating the results for quality review in preparation for the SB 884 10 Year Underpinning Plan.</p> <p>d) The analysis will be included in our SB 884 10 year underpinning plan, which is expected to be filed later this year. The timing of the filing, however, is dependent on when we receive the necessary publications from Energy Safety.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	0	NA	8.1.2.1.2	Grid Design and System Hardening	Other Technologies and Systems - Substation Animal Abatement
Pre-Discovery 79	CaPA	Set WMP-30	CaPA_Set WMP-30	18	CaPA_Set WMP-30_Q18	<p>In response to data request CaAdvocates-PGE-2023WMP-27 question 6, August 18, 2023, PG&E stated that it was finalizing a study to assess the recorded reliability improvements at locations that have been underperformed and/or have been hardened with covered conductor. PG&E stated that it anticipated completing this analysis in October of 2023.</p> <p>Has PG&E completed the study mentioned above?</p> <p>If the answer to part (a) is yes, please provide a copy of any reports or other output from the study.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to complete this study.</p>	<p>a) No. The final analysis has been drafted but is not yet complete.</p> <p>b) Not applicable.</p> <p>c) PG&E is internally validating the results for quality review in preparation for the SB 884 10 Year Underpinning Plan.</p> <p>d) The analysis will be included in our SB 884 10 year underpinning plan, which is expected to be filed later this year. The timing of the filing, however, is dependent on when we receive the necessary publications from Energy Safety.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-16 Progress and Updates on Underpinning and Risk Prioritization
Pre-Discovery 80	CaPA	Set WMP-30	CaPA_Set WMP-30	19	CaPA_Set WMP-30_Q19	<p>In response to data request CaAdvocates-PGE-2023WMP-29 question 6, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023.</p> <p>Has PG&E completed the 2023 Electric Asset Management Plan?</p> <p>If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.</p>	<p>a) PG&E is working on completing final updates to the 2023 Electric Asset Management Plan and tentatively plans to publish this document in June 2024.</p> <p>b) Not applicable.</p> <p>c) The 2023 Electric Asset Management Plan has been reviewed and approved by PG&E leadership. However, the document is still going through the technical writer formatting and processing, along with the other functional area asset management plans.</p> <p>d) PG&E tentatively expects to publish the 2023 Electric Asset Management Plan in June 2024.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	0	NA	NA	NA	NA
Pre-Discovery 80	CaPA	Set WMP-30	CaPA_Set WMP-30	19a)	CaPA_Set WMP-30_Q19a)	<p>In response to data request CaAdvocates-PGE-2023WMP-29 question 6, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023.</p> <p>Has PG&E completed the 2023 Electric Asset Management Plan?</p> <p>If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.</p>	<p>a) PG&E is working on completing final updates to the 2023 Electric Asset Management Plan and tentatively plans to publish this document in June 2024.</p> <p>b) Not applicable.</p> <p>c) The 2023 Electric Asset Management Plan has been reviewed and approved by PG&E leadership. However, the document is still going through the technical writer formatting and processing, along with the other functional area asset management plans.</p> <p>d) PG&E tentatively expects to publish the 2023 Electric Asset Management Plan in June 2024.</p>	Holly Wetteman	3/22/2024	6/12/2024	6/12/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	1	NA	NA	NA-G271 G806A	NA
Pre-Discovery 81	CaPA	Set WMP-30	CaPA_Set WMP-30	20	CaPA_Set WMP-30_Q20	<p>In response to data request CaAdvocates-PGE-2023WMP-29 question 6, September 27, 2023, PG&E stated that it was evaluating the ability of response to wire down conditions in the 10 P&G-PTD occurring during traditional peak utility season of December (Nov 1 and November 1) going back to 2020. We can complete the analysis by October 31, 2024.</p> <p>Has PG&E completed the analysis mentioned above?</p> <p>If the answer to part (a) is yes, please provide a copy of any reports or other output from the analysis.</p> <p>If the answer to part (a) is no, please explain the delay.</p> <p>If the answer to part (a) is no, please state when PG&E currently expects to complete the analysis.</p>	<p>a) PG&E has not yet completed its evaluation. PG&E is currently evaluating outages at High Risk Area (HRA) / High Fire Threat Areas (HFTA) areas with wire down conditions during peak utility season between May 1 and November 1 at this time.</p> <p>b) Not applicable, please see the responses to subpart (a).</p> <p>c) Not applicable, please see the responses to subpart (a).</p> <p>d) The HRA / HFTA Wire Down Outage Response time analysis has been delayed due to resource constraints during the extended 2023 wildfire season and the 2024 wildfire season planning activities.</p> <p>e) PG&E expects to complete the analysis by June 2024.</p>	Holly Wetteman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Asset/Topic/Doc/Outage/121485810/2023062609101623	0	NA	8.2.3.4	Vegetation Management and Inspections	Fall in Migration