

14	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q2	2	CAIPA_Sat WMP-08_Q2	<p>Regarding the new "Tree Removal Inventory Program" described in section 8.2.2.2.4 of PG&E's WMP, PG&E states:</p> <p>This is a new transitional program for 2023 stemming from the conclusion of the EVM program. This program is intended to work down trees previously identified. PG&E estimates that our EVM inventory included more than 300,000 trees as of the end of 2022. Under the Tree Removal Inventory program, we remove or re-speciate trees identified in the EVM program.</p> <p>Based on this on-going re-speciation and evaluation work, we will develop annual individual work plans and budgets to higher-level removal or re-speciate or CPZs. We will place all trees in the inventory in a re-speciate or re-speciate bin.</p> <p>At PG&E, we mean by the term "transitional" in the first sentence.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology and strategy for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
15	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q3	3	CAIPA_Sat WMP-08_Q3	<p>Regarding the new "VM for Operational Mitigation" described in section 8.2.2.2.3 of PG&E's WMP, PG&E states:</p> <p>This is a new transitional program for 2023 stemming from the conclusion of the EVM program. This program is intended to help reduce outage and potential impacts with a risk-informed, targeted plan to mitigate potential vegetation contacts based on historic vegetation outage data and EPSS-enabled circuitry. PG&E will initially focus on mitigating potential vegetation contacts in CPZs that have experienced vegetation-caused outages. Scope of work will be developed by using EPSS and historical outage data and vegetation data from the WORM to risk model EPSS-enabled devices vegetation outage events of condition inspections to generate additional work.</p> <p>At PG&E, we mean by the term "transitional" in the first sentence.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.2.2.3	Vegetation Management and Inspections	VM for Operational Mitigation
16	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q4	4	CAIPA_Sat WMP-08_Q4	<p>Regarding the new "Focused Tree Inspections" described in section 8.2.2.2.3 of PG&E's WMP, PG&E states:</p> <p>This is a new transitional program for 2023 stemming from the conclusion of the EVM program. PG&E is developing AOCs to better focus VM efforts to address high risk areas that have experienced higher volumes of vegetation damage during PSPS events, outages, and/or ignitions. We have conducted a county-by-county review with regional DSEAs and used this information to develop programs where focused vegetation inspections can be evaluated to determine appropriate courses to prioritize projects. Focused Tree Inspection plans will be piloted in select one area. The pilot will develop and implement guidelines that inform program.</p> <p>At PG&E, we mean by the term "transitional" in the first sentence.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
17	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q5	5	CAIPA_Sat WMP-08_Q5	<p>PG&E states on p. 539 of its WMP:</p> <p>PG&E is conducting our VM Program starting in 2023. Based on recent data and analysis, the risk reduction of the EVM Program is less than the risk reduction from the EVM program that was introduced in 2021.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.3	Vegetation Management and Inspections	Fall in Mitigation
18	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q6	6	CAIPA_Sat WMP-08_Q6	<p>PG&E states on p. 539 of its WMP:</p> <p>PG&E is conducting our VM Program starting in 2023. Based on recent data and analysis, the risk reduction of the EVM Program is less than the risk reduction from the EVM program that was introduced in 2021.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.3	Vegetation Management and Inspections	Fall in Mitigation
19	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q7	7	CAIPA_Sat WMP-08_Q7	<p>On pp. 314-316 of PG&E's WMP, PG&E divides its operational mitigations into four different groups. Group 2 includes "Inspection and maintenance programs where we exceed compliance requirements and permit inspections are deployed and/or we implement new technologies so that we no longer need to exceed compliance requirements." For the following Group 2 mitigations, please state whether PG&E will determine that it is no longer needed to exceed compliance requirements, and state the criteria by which such a determination is made:</p> <p>(a) Equipment Maintenance Program</p> <p>(b) Fire Clearing Program</p> <p>(c) Utility Defensible Space Program</p> <p>(d) Flood Management</p> <p>(e) Substation Defensible Space</p> <p>(f) Focused Tree Inspections</p> <p>(g) Emergency Integrated VM</p> <p>(h) Emergency Response VM</p>	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Hearm Mitigation Initiatives
20	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q8	8	CAIPA_Sat WMP-08_Q8	<p>On pp. 314-316 of PG&E's WMP, PG&E divides its operational mitigations into four different groups. Group 2 includes "Inspection and maintenance programs where we exceed compliance requirements and permit inspections are deployed and/or we implement new technologies so that we no longer need to exceed compliance requirements." For each of the following Group 2 mitigations, please state whether PG&E needs to document the program/initiative once permit inspections are deployed or new technologies are implemented:</p> <p>(a) Equipment Maintenance Program</p> <p>(b) Fire Clearing Program</p> <p>(c) Utility Defensible Space Program</p> <p>(d) Flood Management</p> <p>(e) Substation Defensible Space</p> <p>(f) Focused Tree Inspections</p> <p>(g) Emergency Integrated VM</p> <p>(h) Emergency Response VM</p>	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Hearm Mitigation Initiatives
21	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q9	9	CAIPA_Sat WMP-08_Q9	<p>Regarding the new "Tree Removal Inventory Program" described in section 8.2.2.2.4 of PG&E's WMP, PG&E states:</p> <p>This is a new transitional program for 2023 stemming from the conclusion of the EVM program. This program is intended to work down trees previously identified. PG&E estimates that our EVM inventory included more than 300,000 trees as of the end of 2022.</p> <p>Based on this on-going re-speciation and evaluation work, we will develop annual individual work plans and budgets to higher-level removal or re-speciate or CPZs. We will place all trees in the inventory in a re-speciate or re-speciate bin.</p> <p>At PG&E, we mean by the term "transitional" in the first sentence.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology and strategy for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
22	CAIPA	Sat WMP-08	CAIPA_Sat WMP-08_Q10	10	CAIPA_Sat WMP-08_Q10	<p>PG&E will continue to assess the risk of tree falls during the period from 2023-2025 through the Distribution Routine and Second Patrol programs accordingly. The identification of vegetation and other emergency priority trees is embedded into all VM, VM, and mitigation programs. As well as the resulting work authorization and quality programs.</p> <p>At PG&E, we mean by the term "transitional" in the first sentence.</p> <p>Does PG&E intend to identify new trees to be added to the inventory?</p> <p>If the answer to part (a) is yes, please explain PG&E's methodology for doing so.</p> <p>If the answer to part (a) is no, please explain how PG&E intends to address compliance risk reduction outcomes that are currently provided by the EVM program.</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>How many trees will be removed/re-speciated during the "two-year program"?</p> <p>If the answer to part (b) is yes, please explain how PG&E intends to address vegetation in riparian areas going forward.</p> <p>If the answer to part (c) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>If the answer to part (c) is yes, please explain why the number is an estimate rather than a precise number.</p>	0	NA	8.2.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

51	CaPA	Sat WMP-10	CaPA_Sat WMP-10	4	CaPA_Sat WMP-10_Q4	<p>P. 338 of PG&E's WMP plans, with regard to DTS-FAS7</p> <p>A project, field test installation was completed on a 115k tower in Matanzas and a wood pole in Santa Cruz in 2022. This includes hardware and test bench. The hardware and test bench were installed in the field in the second quarter of 2022. The test bench was used to verify the hardware and test bench. The test bench was used to verify the hardware and test bench. The test bench was used to verify the hardware and test bench.</p> <p>Please provide data on the results of the field test installation in Matanzas.</p> <p>If there were any issues with the test installation, what steps does PG&E plan to take in 2023 to better develop DTS-FAS7?</p> <p>If there were any issues with the test installation, what steps does PG&E plan to take in 2023 to better develop DTS-FAS7?</p> <p>At the end of 2022, how much has PG&E spent on DTS-FAS7?</p> <p>What portion of your response to part (a) is related to the parent application and examination process?</p> <p>What are your forecast costs for DTS-FAS7 through the 2023-2025 period?</p> <p>What portion of your response to part (b) is related to the parent application and examination process?</p>	<p>DTS-FAS7 is an integrated system of sensors 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 use scenarios, encouraging functional testing, environmental testing, and long-term resilience testing. Learnings were immediately applied to optimize sensor configuration.</p> <p>Sensors – we installed over 25 devices and tested their intended functionality for accuracy and reliability. These are the types of tests performed:</p> <ul style="list-style-type: none"> Responsibility testing verifies the 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 consistent and repeatable measurements. Stability testing evaluates the sensor's ability to detect and report a steady state or variations in input. This is achieved by exposing the sensor to a steady state or variations in input. This is achieved by exposing the sensor to a steady state or variations in input. This is achieved by exposing the sensor to a steady state or variations in input. Environmental testing verifies the sensor's performance under different conditions that may affect its operation such as temperature, humidity, and vibration. This is achieved by exposing the sensor to different environmental conditions. Reliability testing verifies the sensor's performance under different conditions that may affect its operation such as temperature, humidity, and vibration. This is achieved by exposing the sensor to different environmental conditions. <p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Emerging Grid Hardening Technology Initiatives and Plans
52	CaPA	Sat WMP-10	CaPA_Sat WMP-10	5	CaPA_Sat WMP-10_Q5	<p>P. 337 of PG&E's WMP plans, "Approved DTS-FAS7 could have a significant impact on wildfire risk where deployed.</p> <p>Please specify the phases "a significant impact on wildfire risk" in the above table.</p> <p>What are your workplans or studies to support your answer to part (b)?</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.2.1	Grid Design and System Hardening	Emerging Grid Hardening Technology Initiatives and Plans
53	CaPA	Sat WMP-10	CaPA_Sat WMP-10	6	CaPA_Sat WMP-10_Q6	<p>P. 464 of PG&E's WMP plans, "By the end of 2022, we reduced the Customer Average Interruption Duration Index (CAIDI) and Customer Empowering a Standard Outage (CESO) for customers served by EPSS-eligible lines in 2022 compared to 2021 program plan.</p> <p>Please provide the CAIDI value for all HTD customers for each year from 2019-2022.</p> <p>Please provide the CESO value for all HTD customers for each year from 2019-2022.</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	1	NA	8.1.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
54	CaPA	Sat WMP-10	CaPA_Sat WMP-10	7	CaPA_Sat WMP-10_Q7	<p>P. 464 of PG&E's WMP plans, "By the end of 2022, we responded to 89 percent of outages on EPSS-enabled lines within 60 minutes, responding on average within 42 minutes."</p> <p>What data sources were used to track this? By the end of 2022, what time period is the data drawn from? In other words, the 42-minute figure is an average of response times in what period of time?</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
55	CaPA	Sat WMP-10	CaPA_Sat WMP-10	8	CaPA_Sat WMP-10_Q8	<p>P. 464 of PG&E's WMP plans, "By the end of 2022, we responded to 89 percent of outages on EPSS-enabled lines within 60 minutes, responding on average within 42 minutes." For all outages on EPSS-enabled lines in all of 2022, provide the following:</p> <p>A) Average response time</p> <p>B) 20th percentile response time</p> <p>C) Median (50th percentile) response time</p> <p>D) 75th percentile response time</p> <p>E) Longest response time</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
56	CaPA	Sat WMP-10	CaPA_Sat WMP-10	9	CaPA_Sat WMP-10_Q9	<p>P. 464 of PG&E's WMP plans, "By the end of 2022, we responded to 89 percent of outages on EPSS-enabled lines within 60 minutes, responding on average within 42 minutes." For the 11 percent of outages listed in the table above that were not responded to within 60 minutes, provide the following:</p> <p>A) Average response time</p> <p>B) Longest response time</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
57	CaPA	Sat WMP-10	CaPA_Sat WMP-10	10	CaPA_Sat WMP-10_Q10	<p>P. 441 of PG&E's WMP plans, "We plan to implement a QA (quality assurance) program for systems inspections.</p> <p>Please discuss the program PG&E has made so far in implementing a QA program for systems inspections.</p> <p>What does PG&E expect to implement in 2023 program for systems inspections?</p> <p>Please describe the main features of the QA program that PG&E plans to implement.</p> <p>What are the probable limitations of the QA program that PG&E plans to implement?</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.6.1	Quality Assurance and Quality Control	Quality Assurance
58	CaPA	Sat WMP-10	CaPA_Sat WMP-10	11	CaPA_Sat WMP-10_Q11	<p>P. 441 of PG&E's WMP plans, "We plan to update existing QA (quality verification) procedures for systems inspections."</p> <p>Please discuss the program PG&E has made so far for updating existing QA procedures for systems inspections.</p> <p>What does PG&E expect to complete in updating QA procedures for systems inspections?</p> <p>Please describe how the updated updates will improve PG&E's existing QA procedures.</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.6.1	Quality Assurance and Quality Control	Quality Assurance
59	CaPA	Sat WMP-10	CaPA_Sat WMP-10	12	CaPA_Sat WMP-10_Q12	<p>P. 450 of PG&E's WMP plans, "Along with reducing wildfire risk related to backing ignition risk tags in HF TDFWRA, we (BC utilities) will, after January 1st, 2023, update HF TDFWRA ignition risk tags to be consistent in compliance with GO 95 rule 18. Please explain your answer."</p> <p>What are the main features of the HF TDFWRA ignition risk tags that PG&E plans to implement in 2023 program for systems inspections?</p> <p>What are the probable limitations of the HF TDFWRA ignition risk tags that PG&E plans to implement?</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.7.2	Open Work Orders	Open Work Orders – Distribution Tags
60	CaPA	Sat WMP-10	CaPA_Sat WMP-10	13	CaPA_Sat WMP-10_Q13	<p>Table PG&E-8.1.7.1 on p. 451 of PG&E's WMP plans, "Field Safety Reassessment (FSR) performed annually on all dependent tags to confirm Priority B Notification has been escalated to Priority A or C."</p> <p>Under PG&E's current procedures and policies, can a FSR be escalated to the priority of a notification?</p> <p>Under PG&E's current procedures and policies, can a FSR be used to extend the due date of a notification beyond GO 95 rule 18 timeline? Please explain your answer.</p>	<p>The key features are described in Section 8.1.6.1 of our 2023 WMP.</p> <p>Quality Assurance and Quality Control</p> <p>Quality Assurance</p> <p>Quality Assurance</p>	Holly Wetman	4/20/23	4/10/2023	4/10/2023	0	NA	8.1.7.2	Open Work Orders	Open Work Orders – Distribution Tags

61	CAIPA	Sat WMP-10	CaPa_Sat WMP-10	14	CaPa_Sat WMP-10_014	Table PG&E-8.1.7.3 is a copy of PG&E's WMP empty cells in the HFRa tree (HFRa tree is empty) in the HFRa tree. b) Please provide an updated version of PG&E-8.1.7.3 with the HFRa tree filled in.	<p>The HFRa tree in Table PG&E-8.1.7.3 was blank because PG&E was unable to segregate the HFRa tags. Table 8.1.7.3 shows the number of open distribution work orders categorized by PFT to the end of 2022 through Q4 2022 and a list of the COR data produced in Energy Safety on March 1, 2023. The numbers in March 1, 2023 COR are different from the numbers provided in Table 8.1.7.3 in PG&E's March 27, 2023 WMP submission. The numbers in the March 1, 2023 COR are correct. Table 1 - Open Distribution Work Orders by PFT</p> <p>HFRa Area 2021 2022 2023 2024 Buffer Zone 0 1 0 0 0 0 15,119 1,298 1,036 19,293 10,956 19,293 1,817 1,817 1,316 12,078 20,165 Zone 1 14 0 2 4 0 2 4 0 4 0 2</p>	4/10/2023	4/10/2023	4/10/2023	0	NA	8.1.7.2	Open Work Orders	Open Work Orders - Distribution Tags
62	CAIPA	Sat WMP-10	CaPa_Sat WMP-10	15	CaPa_Sat WMP-10_015		<p>a) There is a 100% review of all inspectors that are part of the inspection process. The inspector completes the location of a spot check (as performed or currently missed items). b) Spot checks are performed for the commonly missed items that potentially caused a fine or impact. c) The five most common problems identified by the QC process are: C-trails, trailers, color pipe, shoe issues, and structural issues. d) We have not identified any limitations of the QC process at this time.</p>	4/10/2023	4/10/2023	4/10/2023	0	NA	8.1.3	Asset Inspections	NA
63	TURN	001	TURN_001	1	TURN_001_01	1) Regarding PG&E's 2023-2025 WMP: a) Provide a comparison of the RSE for undergrounding compared to the RSE for alternative mitigations. However, this information, RSEs for the trenches and approved tree for wildfire mitigations including undergrounding, is provided in PG&E's 2023 General Data Collection in response to Energy Decision Data request ID_021. b) Yes, the 2023 WMP explains how PG&E performs this analysis. PG&E evaluated the inputs from the Wildfire Distribution Risk Models (WRM) to determine the highest risk areas in the service territory. The primary approach for selecting system hardware was based on the highest risk distribution methodology. (1) The top 20 percent of circuit segments based on the 2021 WORM v2, and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WORM v1. c) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. The SWRSE includes the components of the RSE including wildfire risk and cost. d) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity and Section 11.2.2, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. e) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. The SWRSE includes the components of the RSE including wildfire risk and cost. f) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. g) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. The SWRSE includes the components of the RSE including wildfire risk and cost. h) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. i) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. 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The SWRSE includes the components of the RSE including wildfire risk and cost. t) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. u) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. The SWRSE includes the components of the RSE including wildfire risk and cost. v) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. w) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. The SWRSE includes the components of the RSE including wildfire risk and cost. x) Regarding the system hardware program, PG&E first uses a scoring criteria that identifies the highest risk areas, and then uses the approved system hardware to determine the final project selection. PG&E includes undergrounding as a preferred option for reducing the total project cost. Since the 2021 PG&E was completed, PG&E includes a preferred circuit segment quantitatively and qualitatively to mitigate the maximum amount of risk and maintain viability and accessibility. Please refer to Section 8.2.1, page 2023 Overview of the Activity and Section 11.2.2, p. 20-54. Overview of the Activity. y) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating undergrounding projects. 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64	TURN	002	TURN_002	1	TURN_002_01	1) Please see the attachment to the response to CA/ADocs PG&E-2023WMP-05-007, which PG&E has labeled as confidential.	Please see attachment "WMP_Disclosure2023_DR_TURN_002-020A101CONF.xlsx" for the requested information.	4/10/2023	4/10/2023	4/10/2023	0	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
65	TURN	002	TURN_002	2	TURN_002_02	1) Please see the attachment to the response to CA/ADocs PG&E-2023WMP-05-008, which PG&E has labeled as confidential.	Please see attachment "WMP_Disclosure2023_DR_TURN_002-020A101CONF.xlsx" for the requested information.	4/10/2023	4/10/2023	4/10/2023	0	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
66	TURN	002	TURN_002	3	TURN_002_03	1) Please see the attachment to the response to CA/ADocs PG&E-2023WMP-05-009, which PG&E has labeled as confidential.	The attachment to CA/ADocs PG&E-2023WMP-05-009 was identical to the attachment provided for CA/ADocs PG&E-2023WMP-05-008, so please refer to the attachment sent with Answer 02 of this data request response.	4/10/2023	4/10/2023	4/10/2023	0	NA	2022 WMP Section 7.3.2	Vegetation Management and Inspections	Enhanced Vegetation Management
67	TURN	002	TURN_002	4	TURN_002_04	1) Please see the 2023-2025 Underpinning Workplan referenced on page 911 of PG&E's WMP and in Section 209, which indicates that PG&E has labeled the Workplan confidential.	Please see "WMP_Disclosure2023_DR_TURN_002-020A101_CONF.xlsx" for the requested information.	4/10/2023	4/10/2023	4/10/2023	0	Yes	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-16 - Progress and Updates on Undergrounding and Risk Positioning.
68	CPUC - SPD (Safety Policy Division)	002	CPUC - SPD (Safety Policy Division)_002_01	1	CPUC - SPD (Safety Policy Division)_002_01	Provide Attachment 22-07_PGE_2023_WMP_00_Appendix A (ACI PG&E-22-16)_A601_CONF (PG&E's 2023-2025 Underpinning Workplan).	The CONFIDENTIAL attachment is being provided pursuant to the confidentiality declaration ORU1407 003, Confidentiality Declaration (P2_2023_WMP_00_Appendix A (ACI PG&E-22-16)_A601_CONF.xlsx).	4/10/2023	4/10/2023	4/10/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-16 - Progress and Updates on Undergrounding and Risk Positioning.
69	OESIS	001	OESIS_001	1	OESIS_001_01	1) Regarding PG&E's Tree Assessment Tool (TAT) Considerations: PG&E has discontinued Enhanced Vegetation Management (EVM) program. a) What actions programs, if any, listed in Section 8.2.2 will use the TAT? b) If PG&E is not using the TAT, why has it been discontinued?	The TAT was developed for the EVM program. The TAT will no longer be utilized as the EVM program concluded at the end of 2022. There are no current plans to utilize TAT to support other WM programs. a) No response to this question as of the end of 2023-2025. PG&E will utilize the TAT at this time. Please see the response to part (d) of this question. b) The approved tree inspection teams to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard are used to conduct and report tree risk assessments.	4/10/2023	4/10/2023	4/10/2023	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
70	OESIS	001	OESIS_001	2	OESIS_001_02	1) Regarding PG&E's Targeted Tree Species (TTS) Study as a Tree Assessment Tool (TAT) On page 786 of the 2022 WMP Update, PG&E states "The results of our Targeted Tree Species study in conjunction with improving the Tree Assessment Tool (TAT) will allow PG&E to more accurately identify and organize trees at increased risk of failure, prioritizing their removal." On page 787 of the 2022 WMP Update, PG&E states "We have evaluated the recommendations in the final (August 1st) Species report and continue to analyze them and consider our implementation options." a) Since the Targeted Tree Species study was completed on March 31, 2022, what actions has PG&E taken and will take to implement the recommendations? Beyond sharing to each of the recommended locations? b) What implementation 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 the TAT, do PG&E make changes/improvements to the TAT before it is decided to end and use it? If so, what were those changes/improvements?	The CONFIDENTIAL attachment is being provided pursuant to the confidentiality declaration ORU1407 003, Confidentiality Declaration (P2_2023_WMP_00_Appendix A (ACI PG&E-22-16)_A601_CONF.xlsx). The TAT was developed for the EVM program. The TAT will no longer be utilized as the EVM program concluded at the end of 2022. There are no current plans to utilize TAT to support other WM programs. a) No response to this question as of the end of 2023-2025. PG&E will utilize the TAT at this time. Please see the response to part (d) of this question. b) The approved tree inspection teams to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard are used to conduct and report tree risk assessments. Below are the actions taken specific to each of the recommendations. Recommendation 1: Increase tree inspection frequency for trees with no obvious defects. Consider scored abatements that will address existing tree condition. All pathways to address the position/alignment, and canopy reduction to wind. Action Taken: The Recanal weighting of crown/leaves defects used incorporated into the TAT update. Recommendation 2: Increase green tree abatement rates for trees with no obvious defects. Consider scored abatements that will address existing tree condition. All pathways to address the position/alignment, and canopy reduction to wind. Action Taken: The Recanal weighting of crown/leaves defects used incorporated into the TAT update. Recommendation 3: Use EPA Level III Ecogrowth to aggregate Regional Species. The Weibull weighting of crown/leaves defects used incorporated into the TAT update. Action Taken: The TAT update utilizes the recommended ecogrowth. Over time, we use same as a programmatic KPI. Action Taken: Analysis for habitat species compositions compared to outage and ignition species distributions has been completed. Recommendation 4: Examine Outage and Ignition (OI) data with TAT data parameters. RIP at OI data fields. 1) To the best extent possible, perform a prescriptive TAT analysis on future OI trees. Where possible, associate the OI tree with a LDM tree registration ID. Action Taken: We have developed an updated outage and ignition investigation form that incorporates data parameters that will be increased data analysis. The updated form is in process of being deployed which will improve data completeness. Recommendation 5: Increase green tree abatement rates for trees with no obvious defects. Consider scored abatements that will address existing tree condition. All pathways to address the position/alignment, and canopy reduction to wind. Action Taken: The Recanal weighting of crown/leaves defects used incorporated into the TAT update. Recommendation 6: Use EPA Level III Ecogrowth to aggregate Regional Species. The Weibull weighting of crown/leaves defects used incorporated into the TAT update. Action Taken: The TAT update utilizes the recommended ecogrowth. Over time, we use same as a programmatic KPI. Action Taken: Analysis for habitat species compositions compared to outage and ignition species distributions has been completed.	4/10/2023	4/10/2023	4/10/2023	0	NA	8.2.3.6	Vegetation Management and Inspections	High-Risk Species
71	OESIS	001	OESIS_001	3	OESIS_001_03	1) 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 "hotspots" where focused vegetation inspection can be prioritized. b) Provide a map of the pilot area, PG&E's Areas of Concern (AOC), and "hotspots" where focused vegetation inspection can be prioritized. c) Detail criteria PG&E has used and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "hotspots" where focused vegetation inspection can be prioritized to determine appropriate locations to prioritize plants? (page 529). d) Detail criteria PG&E has used and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "hotspots" where focused vegetation inspection can be prioritized to determine appropriate locations to prioritize plants? (page 529). e) What actions programs, if any, listed in Section 8.2.2 will use the TAT? f) If PG&E is not using the TAT, why has it been discontinued? g) How many circuit miles are in scope for the pilot? h) How many circuit miles are in scope for the pilot? i) How many circuit miles are in scope for the pilot? j) How many circuit miles are in scope for the pilot? k) How many circuit miles are in scope for the pilot? l) How many circuit miles are in scope for the pilot? m) How many circuit miles are in scope for the pilot? n) How many circuit miles are in scope for the pilot? o) How many circuit miles are in scope for the pilot? p) How many circuit miles are in scope for the pilot? q) How many circuit miles are in scope for the pilot? r) How many circuit miles are in scope for the pilot? s) How many circuit miles are in scope for the pilot? t) How many circuit miles are in scope for the pilot? u) How many circuit miles are in scope for the pilot? v) How many circuit miles are in scope for the pilot? w) How many circuit miles are in scope for the pilot? x) How many circuit miles are in scope for the pilot? y) How many circuit miles are in scope for the pilot? z) How many circuit miles are in scope for the pilot?	1) AOCs were identified through a cross-functional effort utilizing county-based regional reviews to create programs. Initial program development included Public Safety Services' cross-boundary evaluations, 30-year baseline of microclimate data, PIPS Look-Alike Program, PIPS's Vegetation Database, vegetation-covered condition data, and vegetation-covered canopy data. The completed AOC programs were further analyzed against WORM model. This analysis prioritized locations of AOC programs which were selected as regional pilots. To bring value to crew field guidance and resources, the pilot leads to capture regional variations and identify high-risk AOC programs which did not support a significant leverage/opportunity of the pilot. 2) The approved tree inspection teams to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard are used to conduct and report tree risk assessments. 3) The PIP program will be piloted in four regional AOCs (Bum, Calaveras, and Napa Counties) beginning in 2023. 4) The PIP pilot will consist of 300 miles within AOCs. 5) All PIP pilot programs will be subject to annual audits as provided by WORM models. PIP pilot programs will be reported in HFD area. Portions of PIP pilot programs will be subject to EVM mitigation in other areas and trees will be inspected through WORM model. 6) The approved tree inspection teams to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard are used to conduct and report tree risk assessments. 7) The PIP program will be piloted in four regional AOCs (Bum, Calaveras, and Napa Counties) beginning in 2023. 8) The PIP pilot will consist of 300 miles within AOCs. 9) All PIP pilot programs will be subject to annual audits as provided by WORM models. PIP pilot programs will be reported in HFD area. Portions of PIP pilot programs will be subject to EVM mitigation in other areas and trees will be inspected through WORM model. 10) The approved tree inspection teams to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard are used to conduct and report tree risk assessments. 11) The PIP program will be piloted in four regional AOCs (Bum, Calaveras, and Napa Counties) beginning in 2023. 12) The PIP pilot will consist of 300 miles within AOCs. 13) All PIP pilot programs will be subject to annual audits as provided by WORM models. PIP pilot programs will be reported in HFD area. Portions of PIP pilot programs will be subject to EVM mitigation in other areas and trees will be inspected through WORM model.	4/10/2023	4/10/2023	4/10/2023	3	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

71	OEIS	001	OEIS_001	301	OEIS_001_07a)	<p>Regarding PG&E's Focused Tree Inspections pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52) and the specific PG&E use and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52).</p> <p>a. What standards, processes, procedures, and tools are vegetation management personnel using/will use to perform tree risk assessments for the pilot?</p> <p>b. Will PG&E be using its One VM Tool for reworking for the pilot? If not, what system will PG&E use for reworking for the pilot?</p> <p>c. Are there 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?</p> <p>d. How many circuit miles are in scope for the pilot?</p> <p>e. What are the area previously inspected for Enhanced Vegetation Management (EVM)?</p> <p>f. For each Circuit Protection Zone (CPZ) in the pilot area provide the:</p> <ul style="list-style-type: none"> 1) CPZ name. 2) Tree Weighted Risk Score from PG&E's most recent version of its EVM Tree Weighted Prioritization List. 3) Risk Factors. <p>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 the program in 2023 and 2024.</p> <p>4) Provide a GIS layer of the pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52). As applicable, provide the following attributes for each polygon:</p> <ul style="list-style-type: none"> a. Number of overhead circuit miles within the polygon. b. Circuit type. c. Overall Utility Risk. d. Ignition Risk. e. PSPS Risk. f. Contact from Vegetation Likelihood of Ignition. 	<p>in 2023 development of Areas of Concern (AOC) used WDRM to prioritize CPZs to inform the pilot area selected. In the AOC assessment for pilot areas, we used CPZs based on 22 circuit CPZs. Most of the CPZs were not in 2023 and EVM Tree Weighted Risk Scores and Ratings were calculated to occur by October 9, 2023. CPZs not in 2023 EVM Tree Weighted Risk Scores were calculated using the same criteria as CPZs in 2023. CPZs not in 2023 EVM Tree Weighted Risk Scores were calculated using the same criteria as CPZs in 2023. CPZs not in 2023 EVM Tree Weighted Risk Scores were calculated using the same criteria as CPZs in 2023. CPZs not in 2023 EVM Tree Weighted Risk Scores were calculated using the same criteria as CPZs in 2023.</p> <p>These available EVM Tree Weighted Risk Scores and EVM Tree Weighted Risk are provided in the table below:</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/19/2023</p> <p>4/19/2023</p>	<p>NA</p> <p>8.2.2.5</p>	<p>Vegetation Management and Inspections</p> <p>Focused Tree Inspections</p>
71	OEIS	001	OEIS_001	302	OEIS_001_03a)	<p>Regarding PG&E's Focused Tree Inspections pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52) and the expected timeline for implementation.</p> <p>b. Detail the criteria PG&E uses and is using to develop the pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52).</p> <p>c. What standards, processes, procedures, and tools are vegetation management personnel using/will use to perform tree risk assessments for the pilot?</p> <p>d. Will PG&E be using its One VM Tool for reworking for the pilot? If not, what system will PG&E use for reworking for the pilot?</p> <p>e. Are there 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?</p> <p>f. How many circuit miles are in scope for the pilot?</p> <p>g. For each Circuit Protection Zone (CPZ) in the pilot area provide the:</p> <ul style="list-style-type: none"> 1) CPZ name. 2) Tree Weighted Risk Score from PG&E's most recent version of its EVM Tree Weighted Prioritization List. 3) Risk Factors. <p>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 the program in 2023 and 2024.</p> <p>4) Provide a GIS layer of the pilot area, PG&E's Areas of Concern (AOC), and "logskins when focused vegetation inspection can be evaluated to determine appropriate courses to prioritize plants?" (page 52). As applicable, provide the following attributes for each polygon:</p> <ul style="list-style-type: none"> a. Number of overhead circuit miles within the polygon. b. Circuit type. c. Overall Utility Risk. d. Ignition Risk. e. PSPS Risk. f. Contact from Vegetation Likelihood of Ignition. 	<p>i. GIS layer for each polygon with the additional attributes have provided. Please see "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" and "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf".</p> <p>ii. Please see "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" and "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf".</p> <p>iii. The approach to tree inspections intends to follow the American National Standards Institute (ANSI) A-300 tree risk assessment standard per local conditions and individual tree mitigation needs. Inspectors are ensuring these trees will be required to possess a Tree Risk Assessment Qualification (TRAQ) through the International Society of Arboriculture (ISA), which is the same organization that certifies arborists. The result of the TRAQ assessment will be documented in the Vegetation Inspection Report.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/27/2023</p> <p>4/27/2023</p>	<p>2</p> <p>NA</p> <p>8.2.2.5</p>	<p>Vegetation Management and Inspections</p> <p>Focused Tree Inspections</p>
72	OEIS	001	OEIS_001	4	OEIS_001_04	<p>Regarding PG&E's Tree Removal Inventory (TRI) page 538, PG&E states that it will "remove, or inspect trees identified in the EVM program."</p> <p>a. What PG&E standards, processes, procedures, and tools are vegetation management personnel using/will use to perform tree risk assessments for the pilot?</p> <p>b. What standards, processes, procedures, and tools are vegetation management personnel using/will use to perform tree risk assessments for the pilot?</p>	<p>i. Trees in the inventory with a TAT result of "At-Risk" will adhere based on the existing risk assessment.</p> <p>ii. All trees in the inventory with either no TAT result or a TAT result other than "At-Risk" will be reassessed by a Tree Risk Assessment Qualification (TRAQ) inspector to determine if additional assessment is required. The inspection will determine action based on tree condition and other parameters.</p> <p>iii. The approach to tree inspections intends to follow the American National Standards Institute (ANSI) A-300 tree risk assessment standard per local conditions and individual tree mitigation needs. Inspectors are ensuring these trees will be required to possess a Tree Risk Assessment Qualification (TRAQ) through the International Society of Arboriculture (ISA), which is the same organization that certifies arborists. The result of the TRAQ assessment will be documented in the Vegetation Inspection Report.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/10/2023</p> <p>4/10/2023</p>	<p>NA</p> <p>8.2.2.4</p>	<p>Vegetation Management and Inspections</p> <p>Tree Removal Inventory</p>
73	OEIS	001	OEIS_001	5	OEIS_001_05	<p>Regarding Wood Management On page 536, PG&E states that its wood management program addresses large wood generated by PG&E's EVM activities including post-fire work activities and wood generated by the EVM program.</p> <p>a. Combining the EVM program has been discussed, does the wood management program:</p> <ul style="list-style-type: none"> 1) Address large wood generated from the EVM program that has not already addressed? 2) Address large wood generated from PG&E's Tree Removal Inventory program, a subset of the EVM program? <p>b. How is large wood addressed when generated by other VM programs, including Distribution Reconfiguration, Repair, VM for Operational Mitigation, and Focused Tree Inspections?</p> <p>c. When debris and/or large wood generated from PG&E's VM activities are left on-site, what standards, protocols, processes, and procedures does PG&E use to ensure the debris and large wood are placed in a manner that does not:</p> <ul style="list-style-type: none"> 1) Block or hinder ingress or egress. 2) Create fire or fire fuel. 3) Create a fire hazard. 4) Create a safety hazard. 5) Create a safety hazard. 6) Create a safety hazard. <p>d. At the time of all tree work, crews will either chip and spread, log and scatter or remove wood debris that is smaller than four inches in diameter.</p> <p>e. Additionally, in alignment with PG&E's intent that everyone and everything is always safe, crews will address any large wood that poses a potential safety hazard at the time of tree work.</p>	<p>i. We will update commitments to manage wood generated by Enhanced Vegetation Management (EVM) tree work for customers who request this service.</p> <p>ii. We will continue to update management commitments that have been made to customers.</p> <p>iii. PG&E offers wood management for debris response and EVM program. For all programs, wood greater than four inches in diameter is left in a safe position on site as it legally the property of the landowner. As safety a PG&E's concern only when it poses a safety risk, environmental, cultural or access concern. Crews will address the wood accordingly in coordination with tree work.</p> <p>iv. Please see "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" for PG&E's Wood Management procedures.</p> <p>v. Our crews are directed to remove materials are clear of tree debris or wood of the time of tree work. If wood poses an environmental concern, crews will address the wood in accordance with PG&E Best Management Practices implemented at the time of tree work.</p> <p>vi. Our Vegetation Management program is designed to ensure public safety and regulatory compliance. If customers have specific requests from our work, they can reach out to our dedicated customer teams for support and resolution.</p> <p>vii. If wood poses an environmental concern, crews will address the wood in accordance with PG&E Best Management Practices implemented at the time of tree work.</p> <p>viii. As each property is different, we collaborate with the customer to find an optimal solution for the completion of our work on their property.</p> <p>ix. At the time of all tree work, crews will either chip and spread, log and scatter or remove wood debris that is smaller than four inches in diameter.</p> <p>x. Additionally, in alignment with PG&E's intent that everyone and everything is always safe, crews will address any large wood that poses a potential safety hazard at the time of tree work.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/10/2023</p> <p>4/10/2023</p>	<p>1</p> <p>NA</p> <p>8.2.3</p>	<p>Vegetation Management and Inspections</p> <p>Wood and Stump Management</p>
74	OEIS	001	OEIS_001	6	OEIS_001_06	<p>Regarding Enhanced Clearance On page 537, PG&E says it "complies with Appendix E of GO 95," begins on "the minimum clearance at time of work on Enhanced Vegetation Management is 12 feet as recommended in Appendix E of GO 95. Routine maintenance of previously cleared EVM spaces is 12 feet. Routine maintenance of all other spaces is prohibited 2-3 years of clearance."</p> <p>a. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p> <p>b. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p> <p>c. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p>	<p>i. The minimum clearance at time of work on Enhanced Vegetation Management is 12 feet as recommended in Appendix E of GO 95. Routine maintenance of previously cleared EVM spaces is 12 feet. Routine maintenance of all other spaces is prohibited 2-3 years of clearance.</p> <p>ii. Routine maintenance of all other spaces is prohibited to prescribe 2 years of clearance which allows the inspector to account for tree growth, location, and other conditions that affect work.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/10/2023</p> <p>4/10/2023</p>	<p>0</p> <p>NA</p> <p>8.2.3</p>	<p>Vegetation Management and Inspections</p> <p>Clearance</p>
75	OEIS	001	OEIS_001	7	OEIS_001_07	<p>Regarding Appendix B, PG&E says it "complies with Appendix E of GO 95," begins on "the minimum clearance at time of work on Enhanced Vegetation Management is 12 feet as recommended in Appendix E of GO 95. Routine maintenance of previously cleared EVM spaces is 12 feet. Routine maintenance of all other spaces is prohibited 2-3 years of clearance."</p> <p>a. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p> <p>b. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p> <p>c. How does PG&E ensure the recommended clearance "where practicable" is maintained?</p>	<p>The requested information is provided in the following four documents:</p> <ul style="list-style-type: none"> 1) "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" 2) "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" 3) "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" 4) "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" 	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/10/2023</p> <p>4/10/2023</p>	<p>4</p> <p>NA</p> <p>Appendix B</p>	<p>Supporting Documentation for Risk Methodology and Assessment Database</p> <p>Detailed Model Documentation</p>
76	OEIS	001	OEIS_001	8	OEIS_001_08	<p>Regarding Operational System Diagrams for All Risk Models Used Provide comprehensive system diagrams for:</p> <ul style="list-style-type: none"> 1) A comprehensive diagram for operational models and 2) A comprehensive diagram for modeling models. <p>Section 6.1.2 Summary of Risk Models, table for summary of risk models in table form with specific fields for:</p> <ul style="list-style-type: none"> 1) Risk Model Component Identification, table for what that documents the components of a risk model. 2) Risk Model Component Identification, table for what that documents the components of a risk model. 3) Risk Model Component Identification, table for what that documents the components of a risk model. 4) Risk Model Component Identification, table for what that documents the components of a risk model. 5) Risk Model Component Identification, table for what that documents the components of a risk model. 6) Risk Model Component Identification, table for what that documents the components of a risk model. 7) Risk Model Component Identification, table for what that documents the components of a risk model. 8) Risk Model Component Identification, table for what that documents the components of a risk model. 9) Risk Model Component Identification, table for what that documents the components of a risk model. 10) Risk Model Component Identification, table for what that documents the components of a risk model. <p>The request for comprehensive information is included in the Decision-Making Framework (DMF). The requested information is provided in the following documents:</p> <ul style="list-style-type: none"> 1) Risk Model Component Identification, table for what that documents the components of a risk model. 2) Risk Model Component Identification, table for what that documents the components of a risk model. 3) Risk Model Component Identification, table for what that documents the components of a risk model. 4) Risk Model Component Identification, table for what that documents the components of a risk model. 5) Risk Model Component Identification, table for what that documents the components of a risk model. 6) Risk Model Component Identification, table for what that documents the components of a risk model. 7) Risk Model Component Identification, table for what that documents the components of a risk model. 8) Risk Model Component Identification, table for what that documents the components of a risk model. 9) Risk Model Component Identification, table for what that documents the components of a risk model. 10) Risk Model Component Identification, table for what that documents the components of a risk model. 	<p>PG&E has provided tree system diagrams within WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf in response to the data request - one for operational models (table 01) and one for modeling models (table 02). Each diagram depicts the interaction between each input and output. The diagrams also show the decision points, process flows, feedback loops when adjustments to the models are required.</p> <p>1) Please see table 01 of WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf.</p> <p>2) Please see table 02 of WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf. This diagram depicts PG&E's comprehensive decision-making framework, from identifying risk drivers to developing mitigation strategies to address risk, including program scope and developing workplans, balancing the mitigation portfolio, and executing the work.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/04/2023</p> <p>4/04/2023</p>	<p>1</p> <p>NA</p> <p>8.1.2</p>	<p>Risk Methodology and Assessment</p> <p>Summary of Risk Models</p>
77	OEIS	001	OEIS_001	9	OEIS_001_09	<p>Regarding Portfolio Level Risk Analysis and Risk Based Efficiency</p> <p>a. Provide an example of how risks are aggregated at a portfolio level, and how interdependencies between risks are explicitly captured in the portfolio. Response should be provided in Excel. Also include the level of aggregation for the portfolio risk, as well as the level of aggregation for the business unit.</p> <p>b. Provide an example of how risks are aggregated at a portfolio level, and how interdependencies between risks are explicitly captured in the portfolio. Response should be provided in Excel. Also include the level of aggregation for the portfolio risk, as well as the level of aggregation for the business unit.</p> <p>c. Provide an example of how risks are aggregated at a portfolio level, and how interdependencies between risks are explicitly captured in the portfolio. Response should be provided in Excel. Also include the level of aggregation for the portfolio risk, as well as the level of aggregation for the business unit.</p>	<p>i. Based on the wildfire Distribution Risk Model, which is based on circuit segments, circuit segments are aggregated to the enterprise-wide risk model to calculate mitigation program benefits at portfolio level. The benefits, in this case, are broken down by quantity of likelihood of risk event (LRF) and consequence of risk event (CofRE). Please see "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" and "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf".</p> <p>ii. Please see "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf" and "WMP-Discovery2023_DR_OEIS_001-00030804030401.pdf".</p> <p>iii. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>iv. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>v. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>vi. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>vii. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>viii. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>ix. The risk reduction of wildfire and increased risk of asset failure and reliability.</p> <p>x. The risk reduction of wildfire and increased risk of asset failure and reliability.</p>	<p>Colin Lang</p> <p>4/5/2023</p> <p>4/10/2023</p> <p>4/10/2023</p>	<p>2</p> <p>NA</p> <p>7.1.4.1</p>	<p>Wildfire Mitigation Strategy Development</p> <p>Identifying and Evaluating Mitigation Initiatives</p>

ID	Category	Sub-Category	Item	Priority	Responsible Party	Start Date	End Date	Link	Progress	Notes	Impact	Other	Impact	Other
116	CaPA	Sat WMP-13	CaPA_Sat WMP-13	3	CaPA_Sat WMP-13.O			<p>Table 7.5-1 on p. 251 of PG&E's WMP states the following objective with an estimated completion date of 12/31/2023:</p> <p>Develop a process of certifying constraints resolution. As part of the build-out of the centralized control room three major categories will be addressed: customer constraints, environmental constraints (including required PG&E procedures to comply with) and permitting constraints (including both Land and Environmental permits). The process will be designed to ensure that the three categories of constraints are resolved in a timely manner. The process will include:</p> <p>a) Describe the process PG&E plans to take to coordinate customer constraints.</p> <p>b) Describe the process PG&E plans to take to coordinate environmental constraints.</p> <p>c) Describe the process PG&E plans to take to coordinate permitting constraints.</p>	0	NA	8.2.6	Vegetation Management and Inspections	Open Work Orders	
117	CaPA	Sat WMP-13	CaPA_Sat WMP-13	4	CaPA_Sat WMP-13.O			<p>Table 7.5-1 on p. 252 of PG&E's WMP states the following objective with an estimated completion date of 12/31/2023:</p> <p>For each major constraint category build a process for addressing each constraint type, implement the new process, and create metrics to track each constraint type.</p> <p>a) When does PG&E expect to begin implementing its process for coordinating customer constraints?</p> <p>b) When does PG&E expect to begin implementing its process for coordinating environmental constraints?</p> <p>c) When does PG&E expect to begin implementing its process for coordinating permitting constraints?</p> <p>d) When is the earliest date PG&E expects to begin realizing benefits (e.g. reduced time to resolve constraints) as a result of the objective stated above?</p> <p>e) Why does PG&E expect that it will meet the December 2023 deadline for the objective in the passage quoted above?</p> <p>f) Between now and December 2023, how is PG&E addressing each constraint type?</p>	0	NA	8.2.6	Vegetation Management and Inspections	Open Work Orders	
118	CaPA	Sat WMP-13	CaPA_Sat WMP-13	5	CaPA_Sat WMP-13.O			<p>Table 7.4 on page 307-313 of PG&E's WMP lists the top risk circuit segments (i.e., related segments when sorted by total wildfire risk). At the top of the list are the following: "Jan. 1 2024 Overall Risk" values. "Accounts for risk reduction associated with EPSS." Please explain how PG&E quantified the risk reduction associated with EPSS for each of the circuit segments in Table 7.4.</p> <p>1) Do the values in the column entitled "Jan. 1 2024 Overall Risk" account for risk reduction associated with EPSS?</p> <p>2) Do the values in the column entitled "Jan. 1 2024 Overall Risk" account for risk reduction associated with EPSS?</p> <p>3) Please supplement Table 7.4 with the following additional columns: 1. Forecast SAIDI in 2023 if EPSS were not online; 2. Forecast SAIDI in 2023 with EPSS.</p>	1	NA	7.2.3	Wildfire Mitigation Strategy Development	Projected Risk Reduction on High-Voltage Risk Circuits Over the 3-Year WMP Cycle	
119	CaPA	Sat WMP-13	CaPA_Sat WMP-13	6	CaPA_Sat WMP-13.O			<p>Table PG&E 6.2.2.1 on p. 168 of PG&E's WMP lists four consequence values derived from the mean MAVF of historical fires.</p> <p>a) The PG&E performed a sensitivity study to validate the effect of these values on the output of PG&E's WFC model. Please see our response to part (b) for an explanation of our sensitivity analysis.</p> <p>b) For points within High Fire Risk Areas (HFRA) (or non-HFRA), there is only a single variable that determines the consequence, which is the fraction of area that is located in points of predicted destruction or non-destruction conditions. There are no other dependencies. Only the ratio of predicted destructive fraction of days matters to the overall consequence (taking points within the HFRA or within the non-HFRA into account).</p> <p>c) The consequence values are the same regardless of whether the points are located in HFRA or within the non-HFRA. Additionally, we evaluated whether changing predicted destructive values could result in HFRA locations or points dropping out of the overall consequence analysis or being added to it. We found that the HFRA locations or points would not change.</p> <p>d) The PG&E (WFC) consequence in Table PG&E 6.2.2.1 are at least 3 orders of magnitude larger than any of the ConSeq MAVF values for non-HFRA locations. Based on our response to part (c), we determined that the consequence values are not in order of magnitude were not. Therefore, in order for changes to result in significant consequence rank shifts, the consequence values represented in Table PG&E 6.2.2.1 would need to be much smaller.</p> <p>e) N/A, please see the responses to subparts (a) and (b).</p> <p>f) N/A, please see the responses to subparts (a) and (b).</p>	0	NA	6.2.2	Risk Methodology and Assessment	Consequence	
120	CaPA	Sat WMP-13	CaPA_Sat WMP-13	7	CaPA_Sat WMP-13.O			<p>In section 7.2.1 on page 276-278 of PG&E's WMP, PG&E states, "We determined that EPSS is more effective at reducing wildfire risk at a lower cost as shown by comparing the RSE for the two programs at the time we filed the 2022 ODR. The RSE for EVM was 3.4 compared to the EPSS RSE of 102.7."</p> <p>a) Other than RSE, what other criteria does PG&E evaluate in the decision to move away from EVM?</p> <p>b) EPSS is a machine mitigation program to contrast to EVM which is proactive. Does this machine vs. proactive mitigation have any impact on PG&E's decision to transition away from EVM?</p> <p>c) How does PG&E's RSE evaluate for EPSS take into account the negative reliability impacts on customers?</p>	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities	
121	CaPA	Sat WMP-13	CaPA_Sat WMP-13	8	CaPA_Sat WMP-13.O			<p>For each of the following programs, what metrics does PG&E track to validate their impact and effectiveness at mitigating the impacts of EPSS on:</p> <p>a) Temporary Distribution Microgrids</p> <p>b) Community Microgrid Enablement Program</p> <p>c) Microgrid Incentive Program</p>	0	NA	8.1.2.7	Grid Design and System Hardening	Microgrids	
122	CaPA	Sat WMP-13	CaPA_Sat WMP-13	9	CaPA_Sat WMP-13.O			<p>Do the following programs have any impact on customer reliability (e.g., frequency or duration of outages) in general? Please explain your response for each program.</p> <p>a) Temporary Distribution Microgrids</p> <p>b) Community Microgrid Enablement Program</p> <p>c) Microgrid Incentive Program</p>	0	NA	8.1.2.7	Grid Design and System Hardening	Microgrids	
123	CaPA	Sat WMP-13	CaPA_Sat WMP-13	10	CaPA_Sat WMP-13.O			<p>Figure 7-1 on page 288 shows a sharp decline in risk after 2026.</p> <p>a) If the above is not the case, does PG&E plan to perform such a study?</p> <p>b) Why does PG&E anticipate a significantly more rapid rate of decline in residual risk after 2026 than in the 2025-2026 period?</p>	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Projected Overall Risk Reduction	
124	CaPA	Sat WMP-14	CaPA_Sat WMP-14	1	CaPA_Sat WMP-14.O			<p>P. 347 of PG&E's WMP4 states (regarding PG&E's undergrounding program), "Among other benefits, the reduced SAIDI has been compared to prior projections) will decrease costs in the initial years of the program." Please list the "other benefits" referenced in the quote above.</p>	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
125	CaPA	Sat WMP-14	CaPA_Sat WMP-14	2	CaPA_Sat WMP-14.O			<p>P. 347 of PG&E's WMP4 states (regarding PG&E's undergrounding program), "Among other benefits, the reduced SAIDI has been compared to prior projections) will decrease costs in the initial years of the program." Please list the "other benefits" referenced in the quote above.</p>	0	NA	8.1.2.6	Grid Design and System Hardening	Distribution, Transmission, and Substation (For Action Solutions and Technology)	
126	CaPA	Sat WMP-14	CaPA_Sat WMP-14	3	CaPA_Sat WMP-14.O			<p>P. 350 of PG&E's WMP discusses Breakaway Connectors and states, "The breakaway disconnect acts as a weak link in a production point of separation and the device will fail before the ground de-energized."</p> <p>a) What is the maximum weight that a Breakaway Connector can handle without separating?</p> <p>b) What PG&E tested conditions exist that could cause a Breakaway Connector to separate or be damaged to a non-breakaway condition, but would cause a Breakaway Connector to separate? For example, a small branch fault?</p> <p>c) If the answer to (b) is yes, please provide any results of such studies.</p> <p>d) If the answer to (b) is no, does PG&E plan to perform such a study?</p> <p>e) What wildlife impacts does PG&E foresee with Breakaway Connector installation?</p> <p>f) This risk has not been quantified. Describe the ignition risk in qualitative terms.</p> <p>g) Do the Breakaway Connectors increase the likelihood of an EPSS-induced ignition? Please explain your answer.</p> <p>h) If the answer to (g) is yes, please quantify the increased likelihood of the EPSS-induced outage on circuits where Breakaway Connectors are installed.</p>	0	NA	8.1.2.6	Grid Design and System Hardening	Breakaway Connector	
127	CaPA	Sat WMP-14	CaPA_Sat WMP-14	4	CaPA_Sat WMP-14.O			<p>P. 350 of PG&E's WMP states, "Breakaway disconnect does not impact PSIS Risk." Please state the basis for the above quote.</p>	0	NA	8.1.2.6	Grid Design and System Hardening	Breakaway Connector	

Item ID	Category	Sub-Category	Project Name	Date	Priority	Assigned To	Start Date	End Date	Status	Notes	Dependencies			
142	CaPA	Set WMP-14	CaPA_Sat WMP-14	19	CaPA_Sat WMP-14_019	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			1	NA	8.4.21	Emergency Preparedness	Overview of Written and PSPS Emergency Preparedness	
143	CaPA	Set WMP-14	CaPA_Sat WMP-14	20	CaPA_Sat WMP-14_020	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			0	NA	8.1.23	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements	
144	CaPA	Set WMP-14	CaPA_Sat WMP-14	21	CaPA_Sat WMP-14_021	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			0	NA	8.1.25.2	Grid Design and System Hardening	Traditional Overhead Hardening - Distribution	
145	CaPA	Set WMP-14	CaPA_Sat WMP-14	22	CaPA_Sat WMP-14_022	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			0	NA	8.1.4.11	Equipment Maintenance and Repair	Transformers	
146	CaPA	Set WMP-14	CaPA_Sat WMP-14	23	CaPA_Sat WMP-14_023	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			0	NA		Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increases in Risk Events
147	CaPA	Set WMP-14	CaPA_Sat WMP-14	24	CaPA_Sat WMP-14_024	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			0	NA		Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-08 - Addressing Increases in Risk Events
148	CaPA	Set WMP-14	CaPA_Sat WMP-14	25	CaPA_Sat WMP-14_025	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			1	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements	
149	CaPA	Set WMP-14	CaPA_Sat WMP-14	26	CaPA_Sat WMP-14_026	POSGE objects to the request as beyond the scope of this proceeding and unrelated to POSGE's 2023 WMP...			1	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements	
150	CaPA	Set WMP-15	CaPA_Sat WMP-15	1	CaPA_Sat WMP-15_01	POSGE status in response to Question 1 (b) of California's PGE 2023 WMP-08...			0	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs	
151	CaPA	Set WMP-15	CaPA_Sat WMP-15	2	CaPA_Sat WMP-15_02	POSGE status in response to Question 1 (c) of California's PGE 2023 WMP-08...			0	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs	
152	CaPA	Set WMP-15	CaPA_Sat WMP-15	3	CaPA_Sat WMP-15_03	POSGE status in response to Question 2 (a) of California's PGE 2023 WMP-08...			0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory	
153	CaPA	Set WMP-15	CaPA_Sat WMP-15	4	CaPA_Sat WMP-15_04	POSGE status in response to Question 2 (b) of California's PGE 2023 WMP-08...			0	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs	
154	CaPA	Set WMP-15	CaPA_Sat WMP-15	5	CaPA_Sat WMP-15_05	POSGE status in response to Question 3 (a) of California's PGE 2023 WMP-08...			0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory	
155	CaPA	Set WMP-15	CaPA_Sat WMP-15	6	CaPA_Sat WMP-15_06	POSGE status in response to Question 3 (b) of California's PGE 2023 WMP-08...			0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory	
156	CaPA	Set WMP-15	CaPA_Sat WMP-15	7	CaPA_Sat WMP-15_07	POSGE status in response to Question 3 (c) of California's PGE 2023 WMP-08...			0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory	

171	TURN	004	TURN_004	2	TURN_004_Q2	Regarding Table PG&E-22-35-1 (PSPS Events Lookback Analysis) on page 972 of PG&E's 2023-2025 WMP: If a model is updated, provide a verbal description of all input data used from the scenario in each column were calculated. Provide the table in Excel format.	Tom Long	4/12/2023	4/17/2023	4/17/2023	1	NA	Appendix D	Appendix D - Assess for Continued Improvement	ACI PG&E-22-35 Quarterly Mitigation Benefits of Restoring PSPS Scenarios, Scope, and Frequency
172	TURN	004	TURN_004	3	TURN_004_Q3	Regarding PG&E's response to ACI PG&E-22-35, beginning on page 971 of the WMP: A. Please identify each mitigation discussed in PG&E's current WMP or in 2022 WMP that has the potential to require the scale, scope, frequency, or duration of PSPS events. B. Please explain why Table 22-35-1 only looks at the impact of mitigations, undergrounding and MGO, and does not consider the other mitigations identified in responses to subject (a). C. Please provide all PG&E analyses similar to what is presented in Table 22-35-1 regarding the impact on PSPS scale, scope, frequency, or duration of any or all of the other mitigations identified in responses to subject (a). D. Regarding the statement on page 971: "We concluded that none of the 2022 mitigation impacts estimated any event." E. Please identify each of the "2022 mitigation initiatives" that are referenced in this statement. F. In the context of the statement that none of the 2022 mitigation initiatives reduced the scale, scope, frequency or duration of any event: first, please explain what is meant by the statement and how it relates to the analysis presented in Table 22-35-1.	Tom Long	4/12/2023	4/17/2023	4/17/2023	0	NA	Appendix D	Appendix D - Assess for Continued Improvement	ACI PG&E-22-35 Quarterly Mitigation Benefits of Restoring PSPS Scenarios, Scope, and Frequency
173	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_01	1	CPUC - SPD (Safety Policy Division)_003_01	I FR in the attached spreadsheet "Wildfire Mitigation Table DR - PG&E" the first tab is a "Glossary" which provides definitions for each acronym. The other tabs, "Risk Catalog", "Asset Interdependencies", and "TM Interactions", all need to be completed with data reviewed from PG&E.	Kevin Miller	4/12/2023	4/19/2023	4/19/2023	1	NA	8	Wildfire Mitigation	NA
174	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_02	2	CPUC - SPD (Safety Policy Division)_003_02	In the PG&E 2023 WMP, PG, Section, 402, AH&H1: SPD has observed the mitigation effectiveness of Covered Conductors on the order of 49% compared to the value reported in the WMP which is 64%. Explain the discrepancy.	Kevin Miller	4/12/2023	4/19/2023	4/19/2023	0	NA	8.1,2.1	Grid Design and System Hardening	Covered Conductor Installation - Distributor
175	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_03	3	CPUC - SPD (Safety Policy Division)_003_03	2 Confirm or revise PG&E's Butte County OH to UG conversion factor in the 2023-2025 WMP currently 1.57 in the PG&E based on actual and estimated UG rates for 2023-2025 in the PG&E 2023 ORC Reply Brief (see 2.2) PG&E's current 2003 SPV risk mile 800 000 and 100 Butte County UG miles (total SPV) 1000 000 2025.	Kevin Miller	4/12/2023	4/19/2023	4/19/2023	0	NA	8.1,2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distributor
176	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_04	4	CPUC - SPD (Safety Policy Division)_003_04	4. Based on WSPS' initial review of the wildfire ignitions and general understanding of PG&E's undergrounding program, it appears that undergrounding would have prevented only 67% of CPUC-eligible ignitions in the HFTD area between 2012-2022 primarily due to the impact of secondary and tertiary conductors. Additionally, SP&S noted that CPUC-eligible ignitions in PG&E history during 2012-2022 which were related to undergrounding. The data used in the ignition data spreadsheet, "Wildfire and WSPS Data by SP&S", shows that WSPS is still working in the data and determining the best methodology to analyze the data. A. Provide the justification for the 67% mitigation effectiveness rate in the undergrounding program in the Wildfire Mitigation Plan. Explain how secondary, service conductor, and underground ignitions are accounted for in the 67% mitigation effectiveness. B. Provide the percentage of CPUC-eligible ignitions in the HFTD that undergrounding would be expected to prevent, accounting for secondary and service conductors. C. Provide a description of each CPUC-eligible ignition related to undergrounding that occurred in 2022 and describe how PG&E's undergrounding approach would or would not mitigate the ignition. D. SP&S' general understanding is that ignitions from secondary conductors and service lines are accounted for in the methodology for calculating the effectiveness for both covered conductors and EPSS, but the risk does not appear to be accounted for in the same way that ignitions from undergrounding. Explain the difference in the methodology for how the 67% mitigation effectiveness for undergrounding is calculated as compared to the 67% mitigation effectiveness for covered conductors and 67% effectiveness for EPSS. E. Explain how the mitigation effectiveness is applied to the risk calculation such that approach used in PG&E 2023 WMP, PG, Section, 402, AH&H1 and contrast this approach to the approach used for covered conductor and EPSS. F. Provide the number of CPUC-eligible ignitions related to HFTDs in secondary and service conductors for each year starting in 2014 onward.	Kevin Miller	4/12/2023	4/19/2023	4/19/2023	1	NA	8.1,2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distributor
177	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_05	5	CPUC - SPD (Safety Policy Division)_003_05	Regarding the UG exemption table provided by PG&E, 2023-03-27_PG&E_2023_WMP_R0_Appendix DACI PG&E-22-35_AH&H1_COWR also Why does Column "D" "Risk Rank" (VZ) begin at Rank 1 (as opposed to 11) for circuit? Why do the rows in rank 1 end at 12? Why does rank 2 end at 20? Why do the rows in rank 1 end at 12? A. PG&E evaluated how mid-cycle inspections can be adjusted to align with Areas of Concern in highest risk regions? B. No, explain the results and how PG&E has and will integrate this knowledge into its WMP programs. C. PG&E evaluated the feasibility of developing a multi-year historical tree data set? D. No, explain the results and how PG&E has and will integrate this knowledge into its WMP programs. E. No, please explain PG&E's plan to perform this evaluation and provide a timeline for completion and implementation.	Kevin Miller	4/12/2023	4/19/2023	4/19/2023	0	NA	Appendix D	Appendix D - Assess for Continued Improvement	ACI PG&E-22-18 - Progress and Updates on Vegetation Management and Risk Prioritization
178	OEIS	002	OEIS_002	1	OEIS_002_Q1	A. PG&E used to Targeted Tree Species study to identify additional clearances for and high inventory of trees with the highest growth and highest failure potential? B. No, explain the results and how PG&E has and will integrate this knowledge into its WMP programs. C. No, please explain PG&E's plan to perform this review and provide a timeline for completion and implementation. D. PG&E reviewed the Process and Procedures for collecting and enhancing checks for field inspections and current clearance information. E. No, explain the results and how PG&E has and will integrate this knowledge into its WMP programs. F. No, please explain PG&E's plan to perform this review and provide a timeline for completion and implementation. G. PG&E evaluated the feasibility of developing a multi-year historical tree data set? H. No, explain the results and how PG&E has and will integrate this knowledge into its WMP programs. I. No, please explain PG&E's plan to perform this evaluation and provide a timeline for completion and implementation.	Colin Lang	4/13/2023	4/19/2023	4/19/2023	0	NA	Appendix D	Appendix D - Assess for Continued Improvement	ACI PG&E-22-04 - Progress of Vegetation Management Maturity
Internal															

Row ID	Turn	QOS	Turn_QOS	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1
188	TURN	005	TURN_QOS	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1	TURN_QOS_Q1	1
189	TURN	005	TURN_QOS	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2	TURN_QOS_Q2	2
190	TURN	005	TURN_QOS	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3	TURN_QOS_Q3	3
191	TURN	005	TURN_QOS	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4	TURN_QOS_Q4	4
192	TURN	005	TURN_QOS	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5	TURN_QOS_Q5	5
193	TURN	005	TURN_QOS	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6	TURN_QOS_Q6	6
194	TURN	005	TURN_QOS	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7	TURN_QOS_Q7	7
195	TURN	005	TURN_QOS	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8	TURN_QOS_Q8	8
196	CaFA	Set WMP-16	CaFA_Set WMP-16	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1	CaFA_Set WMP-16-Q1	1
197	CaFA	Set WMP-16	CaFA_Set WMP-16	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2	CaFA_Set WMP-16-Q2	2
198	CaFA	Set WMP-16	CaFA_Set WMP-16	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3	CaFA_Set WMP-16-Q3	3

218	OEIS	003	OEIS_003	4	OEIS_003_Q4	Regarding Support for Medical Baseline Customers a. How does PG&E support Medical Baseline (MBL) customers during wildfire emergencies?	Colin Lang	4/1/2023	4/26/2023	4/26/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/26/medical-baseline-customer-support-during-wildfire-emergencies	0	8.4.6	Emergency Preparedness	Customer Support in Wildfire and PSPS Emergencies	
219	OEIS	003	OEIS_003	5	OEIS_003_Q5	Regarding Emergency Operations Customer Surveys a. Provide an example of each customer survey year in 2021 and 2022 regarding emergency operations and any reports analyzing these surveys' results.	Colin Lang	4/1/2023	4/26/2023	4/26/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/26/emergency-operations-customer-surveys	1	NA	Emergency Preparedness	Public Emergency Communication Strategy	
220	OEIS	003	OEIS_003	6	OEIS_003_Q6	Regarding PG&E's Assess of Concern a. Provide a GIS layer of PG&E's Assess of Concern (AOC) with the following attributes for each AOC polygon: 1. Name of the AOC 2. Number of overhead cross-arms in the AOC that are in scope for Focused Tree Inspections (AOC in-scope) (Yes/No) 3. Cumulative probability of ignition caused by vegetation coupled with consequences of ignition as given by WDRM (0 to 100%) 4. Average probability of ignition caused by vegetation coupled with consequences of ignition as given by WDRM (0 to 100%) 5. Cumulative Overhead Utility Risk as defined by the 2023-2025 WMP Technical Guidelines, Appendix B 6. Cumulative Ignition Risk as defined by the 2023-2025 WMP Technical Guidelines, Appendix B 7. Cumulative PSPS Risk as defined by the 2023-2025 WMP Technical Guidelines, Appendix B 8. Cumulative Control from Vegetation Likelihood of Ignition as defined by the 2023-2025 WMP Technical Guidelines, Appendix B b. The PG&E used vegetation related data sources to identify the characteristics of overvoltage trees to create the AOC? (e.g., LDM, satellite) If so, list the data sources and the date the data was collected. (e.g., Distribution LDM flow by PG&E in 2019) c. How PG&E used the monthly data sets to: 1. Create the AOC? If so, list the data sets used and the date the data was collected. 2. Determine the probability of ignition using the AOC? If so, list the data sets and the date the data was collected.	Colin Lang	4/1/2023	4/26/2023	4/26/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/26/assess-of-concern	3	NA	8.2	Vegetation Management and Inspections	NA
221	OEIS	003	OEIS_003	7	OEIS_003_Q7	Regarding Focused Tree Inspections a. During the decision process to discontinue use of the Tree Assessment Tool (TAT) and adopt the USA's Basic Tree Risk Assessment Form (USA Form), did PG&E consider incorporating elements from the USA Form into the TAT? b. PG&E collected a digital record of each USA Form generated by inspectors. On a 0-100% of another survey? c. How does PG&E plan to incorporate known localized risk factors (e.g., wind, outage trees as species) into tree risk assessments? d. Did PG&E perform any analysis or study that compared the outcomes of the TAT and the USA's checklist in the field? If so, provide the analysis or study. e. How PG&E benchmarked and/or discussed the latest version of its TAT and the associated risk assessment procedure and its tree risk assessment procedures using the USA's checklist with other utilities, including, but not limited to, SCE and its Tree Risk Calculator? If so, provide a summary of the benchmarking discussions. f. Provide the log and any documentation of methodology, validation, and data sources for the most recent version of the TAT. Include a list of the factors considered in TAT scoring methodology.	Colin Lang	4/1/2023	4/27/2023	4/27/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/27/focused-tree-inspections	1	NA	8.2	Vegetation Management and Inspections	NA
222	OEIS	003	OEIS_003	8	OEIS_003_Q8	Regarding Confidential Stakeholder Data Requests a. Provide PG&E's confidential responses and attachments to the following Data Requests: i. WMP-Discovery2023_California-002-0001.pdf ii. WMP-Discovery2023_California-006-0007.pdf iii. WMP-Discovery2023_California-006-0008.pdf iv. WMP-Discovery2023_California-006-0011.pdf v. WMP-Discovery2023_California-009-0016.pdf	Colin Lang	4/1/2023	4/26/2023	4/26/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/26/confidential-stakeholder-data-requests	0	NA	7	Wildfire Mitigation Strategy Development	NA
223	OEIS	003	OEIS_003	9	OEIS_003_Q9	Regarding PG&E's Asset Inspection Program a. Provide the inspection checklist used for both PG&E's patrols and detailed inspections. b. PG&E takes its inspections specifically to inspect wildfire risk specific items, identify which items within the checklist they apply to, particularly if such differs from standard GO 25 inspections. c. On average, how many detailed inspections are completed by inspectors per day?	Colin Lang	4/1/2023	4/26/2023	4/26/2023	https://www.es.com/leg_globe/global/compliance/updates/2023/04/26/asset-inspection-program	5	NA	8.1.3	Asset Inspections	NA

224	OEIS	003	OEIS_003	10	OEIS_003_010	<p>Regarding PG&E's Asset Inventory</p> <p>a. Provide a list of all fields that PG&E's asset inventory captures (i.e. equipment, equipment type, age, installation date).</p> <p>b. Provide a list of all types of equipment captured within PG&E's asset inventory.</p> <p>c. Provide a percentage in which PG&E is missing data in each class that is part in its asset inventory.</p> <p>d. Provide an estimated percentage for the amount of assets missing from PG&E's asset inventory.</p>	Colin Lang	4/10/2023	5/10/2023	5/10/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	2	NA	8.1.5	Asset Management and Inspection (Systems)	NA	
225	OEIS	003	OEIS_003	11	OEIS_003_011	<p>Regarding PG&E's Response to P-WMP_2023-PG&E-003-007</p> <p>a. PG&E states that a Critical Attribute is defined as "a condition that could lead to either an ignition point or one condition that could result in a potential fire." Provide all supporting documentation for PG&E's definition of a Critical Attribute. If such conditions do not exist, PG&E must provide the following: 1. A description of PG&E's process for how it determines what qualifies as a Critical Attribute. 2. A list of criteria PG&E uses to qualify an asset as a Critical Attribute. 3. What does PG&E mean by "as defined by Asset Strategy?"</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	Appendix D	Appendix D - Assets for Continued Improvement		
226	OEIS	003	OEIS_003	12	OEIS_003_012	<p>Regarding PG&E's Response to P-WMP_2023-PG&E-003-009</p> <p>a. PG&E states that it is still performing targeted equipment repairs relating to EPSS. Is this a program separate from that described in Section 8.1.7 of the WMP? If so, please provide the following: 1. Description and procedures in which PG&E uses to decide when and where it performs EPSS-related targeted equipment repairs. 2. How PG&E identifies resources to address these EPSS-related targeted equipment repairs (particularly in relation to the program described in Section 8.1.7). 3. In the scope of such EPSS-related targeted equipment repairs (i.e. number of work orders, number of CPZs included in the program). 4. In the attachment "WMP-Disco2023_DR_OEIS_003-003-0000-002-002" targeted equipment repairs are not included as part of the additional mitigations being completed. Why were these not included if PG&E is still doing this mitigation? b. Provide a GIS file with the locations of CPZs scope of additional reliability mitigations based on EPSS impacts.</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	Appendix D	Appendix D - Assets for Continued Improvement	ACI PG&E-22-08 - Updates to EPSS Feasibility Study	
227	OEIS	003	OEIS_003	13	OEIS_003_013	<p>Regarding PG&E's Response to WMP_2023-PG&E-003-008</p> <p>a. Provide all Enhanced Ignition Analysis (EIA) reports completed for instances in which the qualifier was an EPSS related facility. Provide all Enhanced Ignition Analysis (EIA) reports completed for instances in which the qualifier was an EPSS protected facility.</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	1	NA	Appendix D	Appendix D - Assets for Continued Improvement	ACI PG&E-22-08 Batter Application of Specific Lessons Learned from U889-Casest Fire	
228	OEIS	003	OEIS_003	14	OEIS_003_014	<p>Regarding PG&E's Full Resistor Replacements</p> <p>a. Provide the numbers of full resistors PG&E has replaced by year since 2020.</p> <p>b. Provide PG&E targets for full resistor replacement in 2023 and 2024, as applicable.</p> <p>c. Provide the numbers of full resistor decrease after PG&E's HFTD.</p> <p>d. Provide the number of full resistor decrease identified as needed replacement with PG&E's HFTD.</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	NA	NA	NA	
229	OEIS	003	OEIS_003	15	OEIS_003_015	<p>Regarding PG&E's V4 of a Wildlife Distribution Risk Model (WDRM)</p> <p>a. What is PG&E's status for review and approval of V4?</p> <p>b. When does PG&E intend to call V4 into its fire underpinning plan? Include discussion on details of how this affects PG&E's underpinning plan.</p> <p>c. Provide a list of the differences and improvements being made to V4 in comparison to V3.</p> <p>d. Is V4 undergoing preliminary review similar to V2 or V3? If so, provide a status update on the review, including expected completion date for the related review.</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	6.2.1	Risk Methodology and Assessment	Risk and Risk Component Identification	
230	OEIS	003	OEIS_003	16	OEIS_003_016	<p>Regarding PG&E's response to OEIS Data Request 2 Question A/B/Attachment 1</p> <p>a. How did PG&E determine a mitigation effectiveness of 81% for all storm conductor detection devices (SCDDs)?</p> <p>b. In Table 8.4, PG&E has included 2023, 2024 and 2025 targets for SCDD. Additionally, it requires that PG&E targets for 2023, 2024, and 2025 include both year.</p> <p>c. Include the number of miles SCDD covered in 2022, as well as how many additional miles will be covered based on PG&E targets for 2023, 2024, and 2025 broken down by year.</p> <p>d. How did PG&E determine a mitigation effectiveness of 65% for EPSS?</p> <p>e. Why is an estimated mitigation effectiveness (EPSS) not included within PG&E's mitigations within the attachment? If it were, what would the mitigation effectiveness be for including EPSS?</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	8.1.10	Grid Design and System Hardening	Downed Conductor Detection Devices	
231	OEIS	003	OEIS_003	17	OEIS_003_017	<p>Regarding undervalued assets at E&E</p> <p>PG&E discusses "tag leggers", customers, "transfer" customers, and "transfer" customers (including cities, towns, and counties) in Section 8.4.6. However, definitions of such assets are not provided.</p> <p>a. Provide a definition, as it pertains to both WPPS and PSPS events in the context of Section 8.4.6, and the criteria for how they are being classified as such for: 1. "Tag leggers" 2. "Customers" 3. "Transfer" customers</p>	Colin Lang	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	8.4.6	Emergency Preparedness	Customer Support to Wildlife and PSPS Emergencies	
232	CAPI	Sat WMP-17	CAPI_Sat WMP-17_01	1	CAPI_Sat WMP-17_01	<p>Table 1 - Projects not pursued for Underpinning 0 to final 2100 miles</p> <p>PG&E's WORMV3 sets critical protection zones (CPZs) based on its measured across 17 km mile to ensure "cumulative risk score" for each CPZ in its Table 1. However, selected CPZs that PG&E has decided not to pursue in underpinning to its final 2100 miles are not included in the CPZ risk score for the CPZ in WORMV3.</p> <p>1. Why CPZ length in miles measured by projecting the feature class in WORMV3 is a UTM projection and calculating a polygon to GIS?</p> <p>2. A calculated "base risk" or "average risk" value derived from the previous values</p> <p>3. Whether the CPZ's experienced outage due to PSPS or EPSS in the past five years</p> <p>4. PG&E 2023 WMP's decision to select program the CPZ basing (instead of selected against Question 1 on "Cumulative risk score")</p> <p>5. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>6. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>7. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>8. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>9. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>10. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>11. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>12. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>13. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>14. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>15. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>16. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>17. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>18. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>19. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>20. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>21. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>22. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>23. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>24. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>25. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>26. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>27. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>28. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>29. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>30. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>31. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>32. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>33. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>34. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>35. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>36. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>37. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>38. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>39. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>40. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>41. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>42. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>43. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>44. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>45. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>46. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>47. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>48. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>49. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p> <p>50. PG&E 2023 WMP's risk, via frequency, of risk projects in the 2023-2024 timeframe.</p>	Matthew Tsai	4/10/2023	4/26/2023	4/26/2023	https://www.pge.com/sites/default/files/2023-05/ACI_PGAE-22-08_Batter_Application_of_Specific_Lessons_Learned_from_U889-Casest-Fire.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment: Database	
Internal																	

233	CAIPA	Site WMP-17	CAIPA_Site WMP-17	2	CAIPA_Site WMP-17_Q2	<p>In general, identify all the factors POSE considers when deciding that a CPZ with small total risk profile and/or large total risk in WORM V3 should not be prohibited in POSE's 2023 WMP project selection.</p>	<p>We are selecting locations in 2022 and 2023 based on the Wildlife Feasibility Effectiveness (WFE) analysis, which leveraged WORM V3 risk data to provide for project selection. As part of the WFE analysis, operational efficiency, individual Circuit Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together with adjacent CPZs that we also identified for targeted undergrounding, the combined bundled WFE score is used to select projects. In that process, it is possible that an individual CPZ with a larger average risk profile, combined with another adjacent CPZ within the 10-year undergrounding plan scope that may result in a higher combined WFE score than the bundled projects that we selected for project development. We believe the CPZ bundling approach is appropriate not only to improve field-to-operations efficiency but also because bundling adjacent CPZs:</p> <ul style="list-style-type: none"> 1. Provides continuity with other projects to streamline network, temporary facilities, and allow for a more complete design solution. 2. Allows for maximum PPSIS and EPSIS benefits by bundling nearby segments together. 3. Allows for more comprehensive customer and community engagement as opposed to multiple projects being developed and installed at different times. 4. Lessen our workloads as presented in the 2023 WMP, we developed using numerous factors that could cause a particular project to be prioritized for construction in 2023. 5. It is the typically long timelines required to develop and construct an underground project, 2022 WORM V3 risk data was only recently obtained in the early part of the 2023-2025 timeline, with much of the bundling being finalized by 2021 WORM V2. 6. The timeline to carry out work from previous workorders that must be completed, if a project had been started in a prior period it will be worked to completion. 7. The WFE selection strategy utilizing WORM V3 takes various cost and schedule optimization inputs into its selection methodology including: <ul style="list-style-type: none"> a. Area selection b. Underground difficulty and long-term permitting risks c. Circuit segment bundling d. Resource readiness and availability e. Previously hardened facilities f. Privatization-owned facilities <p>Some projects have been selected due to Fire related, PPSIS mitigation or based on input from Public Safety Division.</p>	Matthew Taul	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
234	CAIPA	Site WMP-17	CAIPA_Site WMP-17	3	CAIPA_Site WMP-17_Q3	<p>POSE CONFIDENTIAL</p> <p>In Table 2 below, select CPZs that POSE has decided to pursue Undergrounding in its first 2100 miles of LC project as compared by:</p> <ul style="list-style-type: none"> a. "Candidate risk score for a CPZ in WORM V3" b. "The total mile length of Undergrounding which POSE quoted for each LC project in Confidential response to Question 1 on WMP Decisions 2022_02_California_020" c. "A calculated "cost per mile" or "average risk" value derived from the top previous values d. Whether the CPZ experienced outages due to PPSIS or EPSIS in the last five years e. POSE 2023 WMP decision to include the CPZ in bundling (based on selected question 1 on POSE 2023 WMP Q2_06_04_04_04_04) f. POSE 2023 WMP risk rank for each CPZ (based on selected question 1 on POSE 2023 WMP Q2_06_04_04_04_04) g. POSE 2023 WMP Feasibility Effectiveness (WFE Scores) for each CPZ (based on selected question 1 on POSE 2023 WMP Q2_06_04_04_04_04) <p>Please explain why these select CPZs in Table 2 with small total risk profiles and/or large average risk in WORM V3 are being considered a potential project for undergrounding.</p> <p>Please provide reasons why POSE did not select for alternatives to underground CPZ "SNE GROVE 11023438" given that the CPZ is comparatively low with both low average and small cumulative risk profile. Alternatives to underground" include other reasons by which to reduce risk such as use of Covered Conductor or a hybrid LCGH approach.</p> <p>Please provide reasons why POSE did not select for alternatives to underground CPZ "STANISLAIS 17021887" given that the CPZ is comparatively low with both low average and small cumulative risk profile. Alternatives to underground" include other reasons by which to reduce risk such as use of Covered Conductor or a hybrid LCGH approach.</p> <p>Please identify all factors under consideration that resulted in priority given to CPZ "STANISLAIS 17021887" with a cumulative risk score of 2.4 and distance to underground of 0.19 miles in POSE's 2023 WMP for mitigation over other CPZs such as:</p> <ul style="list-style-type: none"> a. "SANKRIST 11021545" with a cumulative risk score of 0.18 and distance to underground -15 miles. b. "SEAR VALLEY 2102528" with a cumulative risk score of 7.40 and distance to underground -15 miles. c. "SANDRIST 11013717" with a cumulative risk score of 8.28 and distance to underground -0.1 miles. 	Matthew Taul	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
235	CAIPA	Site WMP-17	CAIPA_Site WMP-17	4	CAIPA_Site WMP-17_Q4	<p>In general, identify all the factors POSE considers when deciding that a CPZ with small total risk profile and/or large average risk in WORM V3 should be prioritized in POSE's 2023 WMP project selection.</p>	<p>We are selecting locations in 2022 and 2023 based on the Wildlife Feasibility Effectiveness (WFE) analysis, which leveraged WORM V3 risk data to provide for project selection. As part of the WFE analysis, operational efficiency, individual Circuit Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together with adjacent CPZs that we also identified for targeted undergrounding, the combined bundled WFE score is used to select projects. In that process, it is possible that an individual CPZ with a larger average risk profile, combined with another adjacent CPZ within the 10-year undergrounding plan scope that may result in a higher combined WFE score than the bundled projects that we selected for project development. We believe the CPZ bundling approach is appropriate not only to improve field-to-operations efficiency but also because bundling adjacent CPZs:</p> <ul style="list-style-type: none"> 1. Provides continuity with other projects to streamline network, temporary facilities, and allow for a more complete design solution. 2. Allows for maximum PPSIS and EPSIS benefits by bundling nearby segments together. 3. Allows for more comprehensive customer and community engagement as opposed to multiple projects being developed and installed at different times. 4. Lessen our workloads as presented in the 2023 WMP, we developed using numerous factors that could cause a particular project to be prioritized for construction in 2023. 5. It is the typically long timelines required to develop and construct an underground project, 2022 WORM V3 risk data was only recently obtained in the early part of the 2023-2025 timeline, with much of the bundling being finalized by 2021 WORM V2. 6. The timeline to carry out work from previous workorders that must be completed, if a project had been started in a prior period it will be worked to completion. 7. The WFE selection strategy utilizing WORM V3 takes various cost and schedule optimization inputs into its selection methodology including: <ul style="list-style-type: none"> a. Area selection b. Underground difficulty and long-term permitting risks c. Circuit segment bundling d. Resource readiness and availability e. Previously hardened facilities f. Privatization-owned facilities <p>Some projects have been selected due to Fire related, PPSIS mitigation or based on input from Public Safety Division.</p>	Matthew Taul	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
236	TURN	006	TURN_006	1	TURN_006_Q1	<p>Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 2-1, please define the following acronym used in the Decision Tree:</p> <ul style="list-style-type: none"> a. PIS b. EADOP c. WOC d. EADOP e. WOC f. EADOP 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
237	TURN	006	TURN_006	2	TURN_006_Q2	<p>Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 5-1 and discussed in that response:</p> <ul style="list-style-type: none"> a. How POSE intend to use the Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation is superior to a given location? b. How POSE intend to use the Decision Tree for future projects during the 2023-2025 period for selecting which POSE intend to use the Decision Tree for future projects? 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
238	TURN	006	TURN_006	3	TURN_006_Q3	<p>Regarding the Undergrounding Decision Tree provided as Attachment 1 to the response to TURN data request 5-1 and discussed in that response:</p> <ul style="list-style-type: none"> a. Please provide a time range in months for each of the "Key Phases" listed in the box in the lower left corner. b. Please explain how POSE define the words "feasible" as used in the text of the response related to the possibility that undergrounding may ultimately be determined to be "feasible" and "unfeasible" as used in the Decision Tree. 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
239	TURN	006	TURN_006	4	TURN_006_Q4	<p>Regarding the Fire Related Decision Tree provided as Attachment 2 to the response to TURN data request 5-1 and discussed in that response:</p> <ul style="list-style-type: none"> a. Please define the following acronym used in the Decision Tree: PIS, EADOP, WOC, DG b. Does POSE intend to use the Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation to use for a given location? c. If the answer is "No" anything other than an operational risk, please explain each and every circumstance under which POSE intends to use the Decision Tree for future projects? 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
240	TURN	006	TURN_006	5	TURN_006_Q5	<p>Regarding the response to TURN data request 5-4, please explain the following terms used in the paragraph of the response:</p> <ul style="list-style-type: none"> a. Clog Services b. In-situ concrete c. Resilient conductor 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
241	TURN	006	TURN_006	6	TURN_006_Q6	<p>Regarding the response to TURN data request 5-6:</p> <ul style="list-style-type: none"> a. Please explain what you mean by "adequately" in the phrase, "adequately" in the point that will be supported? b. Is POSE unable to offer any rough approximation of the percentage of existing poles in the affected area - including poles that are supporting primary lines and secondary lines - that still will be served as a result of the planned undergrounding mileage in 2023-2025? Please provide such a rough approximation if possible. 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
242	TURN	007	TURN_007	1	TURN_007_Q1	<p>Regarding the 2023-2026 Undergrounding Workplan referenced on page 910 of the WMP (P1) and provided in Excel format in response to TURN Data Request 2-4:</p> <ul style="list-style-type: none"> a. Please explain how, if at all, either or both of Simplified Workplan (SWP) and Wildlife Feasibility Effectiveness (WFE) and Wildlife Feasibility Effectiveness (WFE) values (discussed on a 060 of the WMP (P1)) were used in developing this workplan. b. Please explain what measures POSE used to prioritize projects in SWP and how such measures were used. c. Please add to the Excel spreadsheet columns showing the SWP and WFE for each listed circuit segment. d. Comparing the Workplan with Table 7-2 of the WMP, please explain how the WFE miles in Table 7-2 for a given circuit segment relate to the Planned LC miles in Columns 1 through 4A of the Undergrounding Workplan. For comparison, the second highest ranked circuit segment in Table 7-2, Sankrist 11021545, is shown to have 11.02 WFE miles, but the Undergrounding Workplan shows projects for 2023-2026 totaling only 1.01 miles. Please explain how the second highest ranked circuit segment in the Undergrounding Workplan would differ from the miles in Table 7-2 for that circuit segment. e. Please explain how the miles in the Undergrounding Workplan would differ from the miles in Table 7-2 for that circuit segment. f. Please explain how the miles in the Undergrounding Workplan would differ from the miles in Table 7-2 for that circuit segment. 	Tom Long	4/3/2023	4/28/2023	4/28/2023	https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/ https://www.wps.com/blog/global/customer-voice/	1	Yes	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	

243	TURN	007	TURN_007	TURN_007_02	<p>Regarding Table 7.2 in the WMP, a RFRN instruments from Table 6-5 that the Overall Risk Score values in Table 7-2 are the sum of Total Ignition Risk Score and the Total PFSRP Risk Score. Please explain how these input values in the Overall Risk Score column were calculated. Please include in the explanation the relevant mathematical equations.</p> <p>a. If not explained in response to 7, please explain how the Overall Risk Score values in the WMP are calculated. Please include in the explanation the relevant mathematical equations.</p> <p>b. Please provide, in an Excel format, a table that shows the information in Table 7.2 for all HFTD circuit segments if PGESE has the same information for all self-identified HFTD circuit segments. Please include that information also, and indicate which circuit segments are HFTD.</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	1	NA	7.1.3	Wildfire Mitigation Strategy Development	Risk-Adjusted Prioritization
244	TURN	007	TURN_007	TURN_007_03	<p>Regarding the System Hardening Workplan provided as Attachment 1 to the response to TURN date request 2-2 which is not included in response to 7, please explain how the Overall Risk Score values in the WMP are calculated. Please include in the explanation the relevant mathematical equations.</p> <p>a. The first tab in the Excel workbook is named "SH Workplan_2023-2025_Conf" which suggests that the responses of Cal AECs were taken from documents that also included the years 2023 and 2025. Please provide the most up-to-date version of the workplan for the period 2023-2025. Indicate the date of the information in the workplan that is provided.</p> <p>b. It appears that some of the circuit segments listed as high-risk in Table 7.2 of the WMP and in the 2023-2025 Undergoing Work Plan (revised on page 9112 of the WMP 01), e.g., isolator F4124C3 and Borneo Hoax 11015C only Borneo Hoax 11022B is shown), are not listed in this workplan. Please explain why this is the case, how the workplan includes planned undergrounding.</p> <p>c. Are there discrepancies in the names of the circuit segments between this workplan and Table 7.2 and the 2023-2025 Undergoing Work Plan (revised on page 9112 of the WMP 01), e.g., in its absence modify the names of the circuit segments provided in response to 7, so that the circuit segment names consistent with Table 7.2 and the 2023-2025 Undergoing Work Plan (revised on page 9112 of the WMP 01).</p>	Tom Long	4/21/2023	4/27/2023	4/27/2023	1	Yes	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
245	TURN	007	TURN_007	TURN_007_04	<p>Regarding Attachment 2023-03-27_PGE_2023_WMP_R1_Section 4.2_Aln01, which is referenced on page 108, 10, 17 of the WMP 01)</p> <p>a. Please provide a version of this Excel workbook that includes the same information for all of PGESE's HFTD circuit segments, or a list of those segments for which PGESE has such information.</p> <p>b. If PGESE has completed calculations for self-identified HFTD segments, please provide that information.</p> <p>c. Please explain how the circuit segment level for any of the circuit segments shown in the workplan if, if such information?</p> <p>d. Regarding the Overall System Hardening Effectiveness values in Columns U(2023), AE (2023), BP (2024), and CA (2025).</p> <p>e. Please explain how these values were determined.</p> <p>f. Why are the values for 2023-2025 much lower than the values for 2022?</p> <p>g. Why do the values differ slightly based on circuit segment?</p> <p>h. Are the values shown the values that are being used in PGESE's process for selecting among different wildfire mitigation techniques (e.g., undergrounding vs covered conductors for the best circuit segment).</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	0	NA	6.4.2	Risk Methodology and Assessment	Top Risk-Combining Circuit Segments
246	CaPA	Sat WMP-18	CaPA_Sat WMP-18	CaPA_Sat WMP-18_01	<p>PGESE status in response to Question 10 of CalAECs/PGE-2023WMP-18: Vegetation Management for Operational Flexibility (VMOFL) will be primarily focused on HFTD and HFTA. There are responses where a circuit segment may cross or be part of HFTD/HFTA and VMOFL would complete work on the whole circuit segment including the areas outside HFTD/HFTA. Focus Tree Inspections are planned for HFTD areas in the plan developed for 2023.</p> <p>a. In order to respond to the information above to meet that Focused Tree Inspections take place only in HFTD areas, will it include HFTA, or VMOFL, or 2023?</p> <p>b. If Focused Tree Inspections will take place only in HFTD areas, and not HFTA, please explain why.</p> <p>c. If Focused Tree Inspections take place outside of the HFTD after the year 2023?</p> <p>d. Yes, include sites where (in addition to the HFTD) Focused Tree Inspections are likely to take place after the year 2023.</p>	Holy Whisman	4/24/2023	4/27/2023	4/27/2023	0	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs
247	CaPA	Sat WMP-18	CaPA_Sat WMP-18	CaPA_Sat WMP-18_02	<p>PGESE status in response to Question 21 of CalAECs/PGE-2023WMP-18 that "PGESE intends to track trees identified for removal in VMOFL and HFTA using the One VM tool."</p> <p>a. Please provide the following regarding the One VM tool:</p> <p>1) How the tool works (i.e., what mechanisms or procedures it will use to achieve outputs)</p> <p>2) When the tool was developed.</p> <p>3) When PGESE will begin utilizing the tool.</p>	Holy Whisman	4/24/2023	4/27/2023	4/27/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
248	CaPA	Sat WMP-18	CaPA_Sat WMP-18	CaPA_Sat WMP-18_03	<p>PGESE status in response to Question 5(d) of CalAECs/PGE-2023WMP-18 "Are EPSS-related outage data used to determine best planned and forecast of identify CPDs where EPSS VM Outages took place?" Please explain what "planned and forecast" refers to in the above question.</p>	Holy Whisman	4/24/2023	4/27/2023	4/27/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
249	CaPA	Sat WMP-18	CaPA_Sat WMP-18	CaPA_Sat WMP-18_04	<p>PGESE status in response to Question 11(d) of CalAECs/PGE-2023WMP-18 that the Enhanced Safety plan of work for its Tree Inventory Program was provided for the first three years of the program (2023, 2024 and 2025) to ramp up work. It was a starting point to plan the work to completion however, the program learned a lot from the completion being:</p> <p>a) Does PGESE consider duration after three years "to plan the pace of work completion?" Please explain.</p> <p>b) Does PGESE intend for the Tree Inventory Program to continue for more than three years?</p>	Holy Whisman	4/24/2023	4/27/2023	4/27/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
250	CaPA	Sat WMP-18	CaPA_Sat WMP-18	CaPA_Sat WMP-18_05	<p>In response to question 19(3)(c) of CalAECs/PGE-2023WMP-18, PGESE status:</p> <p>The difference in projected vegetation management costs of \$24.48 (200) between 2023 and 2024 is due to several factors, this has PGESE will achieve this reduction: (1) Transitioning from EVMS to new programs; (2) reducing the amount of Routine VM work conducted each year; communications with the amount of undergrounding (lines completed); and (3) reducing unit costs through efficiencies over the five cost period through targeted programmatic adjustments, that the process and improve resource efficiency.</p> <p>a) How does PGESE intend to achieve this reduction?</p> <p>b) Please provide the following information: amount of undergrounding and routine VM cost reductions from undergrounding in the below:</p> <p>Year: 2023 Number of Undergrounding Miles to be Completed: 2023 Planned reduction in Number of Routine VM Miles (Amount of Routine VM Cost Savings from Undergrounding (BSB)) 2024 2025</p> <p>80) Year Number of Undergrounding Miles to be Completed: Planned reduction in Number of Routine VM Miles: Amount of Routine VM Cost Savings from Undergrounding (BSB): 2023 200 Miles 2024 150 Miles 2025 100 Miles</p> <p>81) Year 2023 2024 2025 2026 2027</p> <p>2023 See response above for 2023. See response above for 2023. 2024 See response above for 2023. See response above for 2023. 2025 See response above for 2023. See response above for 2023. 2026 See response above for 2023. See response above for 2023. 2027 See response above for 2023. See response above for 2023.</p>	Holy Whisman	4/24/2023	4/27/2023	4/27/2023	0	NA	8.2.5	Vegetation Management and Inspections	Quality Control

270	CAIQA	Sat WMP-19	CAIQA_Sat WMP-19	CAIQA_Sat WMP-19_012	12	<p>The delay was due to this pole being intensively inspected using our legacy inspection system, which did not release the information until the inspection project was closed. Awaiting the information to be released, we were unable to continue our work on the project. In the legacy inspection system, inspection reports were created with a fixed volume of photos (generally between 400 and 600 photos) and the project was not closed until the photos were uploaded to the system. Once the photos were uploaded, it was not unusual for projects to remain open for multiple months.</p> <p>(1) We changed the way we inspect poles in March 2022. We released our legacy inspection system. We migrated critical inspections onto the updated inspection application, which releases inspection records in real time and creates corrective action notifications on the same day as the inspection.</p> <p>(2) We did not take any immediate action on this issue between November 18, 2019 and January 14, 2020.</p> <p>(3) We have not yet updated this pole to be inspected using the updated inspection system, which did not release the inspection records until the inspection project was closed. As a result, our work management system does not show the inspection records until the project was closed. We are working to update this pole to be inspected using the updated inspection system.</p> <p>(4) We discussed in subject (a) and (b) beginning in March 2022, mitigate inspection are now performed using the updated inspection application, which releases corrective action notifications on the same day as the inspection, allowing the same day with the inspection date.</p> <p>(5) Based on our guidance documents, Priority 6 is appropriate at the time of the inspection and corrective action notification creation. As a result of this event investigation, we developed a plan to assess the inactive inspection records and making the process remaining strength to inform corrective action notification priority, the activity, missing the guidance documents and inspection application to improve our processes.</p>	Holly Wetman	4/29/2023	4/29/2023	4/29/2023	0	NA	8.1.3.2.3	Asset Inspections	Inmate Pole Inspectors
271	CAIQA	Sat WMP-19	CAIQA_Sat WMP-19	CAIQA_Sat WMP-19_013	13	<p>The confidential attachment is being provided pursuant to the accompanying confidentiality declaration of the same reference "WMP-Chicago(2023)_DR_CAIQA_Coverage_018-D01354001CONF.pdf" for our internal PGEA team from May 2022.</p> <p>Specifically, the references are found on Slide number 16. We clarify that "beneficial to useful life" refers to a high quality of service based on existing information. Actual benefits of the assets such as the physical environment, loading conditions, inspection results, etc. may impact the useful life. The language was provided to show, on an affected asset, when we may need to focus the attention and asset removal efforts.</p> <p>(1) Please reference "WMP-Chicago(2023)_DR_CAIQA_Coverage_018-D01354001CONF.pdf" included in part (a) of this response.</p>	Holly Wetman	4/29/2023	4/29/2023	4/29/2023	1	NA	8.1.2.5	Grid Design and System Hardening	Traditional Overhead Hardening - Transmission Conductor and Distribution
272	CAIQA	Sat WMP-19	CAIQA_Sat WMP-19	CAIQA_Sat WMP-19_014	14	<p>On April 13, 2023, Call Andrew's meet with Director of Grid Research and Development at PGEA. During this meeting, PGEA stated that REFCF is not a suitable product.</p> <p>(1) Please describe how PGEA's current assessment of REFCF is different from REFCF. Please explain your answer.</p> <p>(2) If the answer to part (a) is no, please state all reasons why PGEA follows REFCF. Is not a suitable product.</p> <p>(3) If the answer to part (a) is yes, please state all reasons why PGEA follows REFCF. Is not a suitable product.</p>	Holly Wetman	4/29/2023	4/29/2023	4/29/2023	0	NA	8.1.8.1.3.1	Grid Design, Operations, and Maintenance	8.1.8.1.3.1 Rapid Earth Fault Current Limiter
273	CAIQA	Sat WMP-19	CAIQA_Sat WMP-19	CAIQA_Sat WMP-19_015	15	<p>(1) The PGEA performed a study to estimate the combined effectiveness of one or more contributors of covered conductor. EPMS, DCO, P-02, and REFCF in mitigating failures when installed on distribution circuits in the P-02 (1) the answer to part (a) is no, please explain why not.</p> <p>(2) Please explain why not.</p> <p>(3) If the answer to part (a) is no, please explain why not.</p> <p>(4) If the answer to part (a) is yes, please provide the results of any such study, including any reports, workpapers, or other work products.</p>	Holly Wetman	4/29/2023	4/29/2023	4/29/2023	0	NA	8.1.2	Grid Design and System Hardening	Veins
274	CAIQA	Sat WMP-19	CAIQA_Sat WMP-19	CAIQA_Sat WMP-19_016	16	<p>Table 7 on page 20 of the Joint OUI Covered Conductor Working Group Report on SC's estimate of the combined effectiveness of covered conductor, asset inspections, and several vegetation management programs. PGEA performed a similar analysis of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs. PGEA's estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs is detailed in the attached document. PGEA's estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs is detailed in the attached document.</p> <p>(1) Please describe how PGEA's current assessment of REFCF is different from REFCF. Please explain your answer.</p> <p>(2) If the answer to part (a) is no, please explain why not.</p> <p>(3) If the answer to part (a) is yes, please provide the results of any such study, including any reports, workpapers, or other work products.</p>	Holly Wetman	4/29/2023	4/29/2023	4/29/2023	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	AGI PGEA-2023-11 - Covered Conductor Effectiveness Lessons Learned
275	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_01	1	<p>(1) Describe PGEA's standard process for retiring an asset from service.</p> <p>(2) Describe how PGEA records the retirement of an asset from service.</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	1	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
276	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_02	2	<p>(1) In 2022, as part of WMP system hardening activities, does PGEA retire from service (i.e., replace, remove, replace, or decommission) any assets that had not been fully depreciated at the time of retirement?</p> <p>(2) Please describe how PGEA records the retirement of an asset during 2023 system hardening activities.</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1.2	Grid Design and System Hardening	AI
277	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_03	3	<p>(1) In 2022, as part of WMP system hardening activities, does PGEA retire from service (i.e., replace, remove, replace, or decommission) any assets that had not been fully depreciated at the time of retirement?</p> <p>(2) Please describe how PGEA records the retirement of an asset during 2023 system hardening activities.</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1.2	Grid Design and System Hardening	AI
278	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_04	4	<p>What is PGEA's standard practice for holding assets that are retired from service before they are fully depreciated?</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
279	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_05	5	<p>(1) PGEA retires from service an asset that has not been fully depreciated, does it remove the remaining undepreciated value of the asset from its rate base?</p> <p>(2) Please explain what is meant by the statement, "we do track the volume of assets depreciated that has not been fully depreciated, but would keep the remaining undepreciated value of the asset in its rate base."</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
280	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_06	6	<p>(1) As of the date of this data request, does PGEA's rate base currently include any portion of the value of any assets that have not been fully depreciated?</p> <p>(2) If the answer to part (a) is no, please explain why not.</p> <p>(3) If the answer to part (a) is yes, please explain why not.</p> <p>(4) Please describe how PGEA records the retirement of an asset that has not been fully depreciated.</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
281	CAIQA	Sat WMP-20	CAIQA_Sat WMP-20	CAIQA_Sat WMP-20_07	7	<p>In response to data request CAIQA/CAIQA-PGE-2023/WMP-14, questions 20-22, PGEA stated, "We cannot provide the requested data. Our asset registry and work execution systems are not set up to enable this cross-referenced data consolidation, and we do not track the volume of assets depreciated that has not been fully depreciated."</p> <p>(1) Please explain what is meant by the statement, "Our asset registry and work execution systems are not set up to enable this cross-referenced data consolidation."</p> <p>(2) Please explain what is meant by the statement, "we do track the volume of assets depreciated that has not been fully depreciated, but would keep the remaining undepreciated value of the asset that it retired from service as part of its 2020-2022 WMP activities?"</p>	Holly Wetman	4/29/2023	5/3/2023	5/3/2023	0	NA	8.1	Grid Design, Operations, and Maintenance	Distribution Pole and Replacements Traditional Overhead Hardening Transformers

297	MSRA	Data Request No. 4	MSRA_Data Request No. 4	4	MSRA_Data Request No. 4_G4	Please explain why isolated Top polygons appear in the data, also show below, and whether these represent actual risk in an article.	Joseph Michal	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/MSRA_Data_Request_No_4_G4.pdf	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA
298	MSRA	Data Request No. 4	MSRA_Data Request No. 4	5	MSRA_Data Request No. 4_G5	Please provide an alternative and more complete version of this data set in which: a. New numeric data is provided rather than a binary warning. This will allow a recoding of "low" and "high" risks to be more relative and show any gradients across the PG&E territory. b. Coverage extends to all circuits in the HFTD.	Joseph Michal	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/MSRA_Data_Request_No_4_G5.pdf	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA
299	MSRA	Data Request No. 4	MSRA_Data Request No. 4	6	MSRA_Data Request No. 4_G6	If the risk score for each polygon represents an average over the risk in the polygon, please provide an additional version in which the maximum numerical value in the polygon is provided instead.	Joseph Michal	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/MSRA_Data_Request_No_4_G6.pdf	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA
300	MSRA	Data Request No. 4	MSRA_Data Request No. 4	7	MSRA_Data Request No. 4_G7	If possible, provide an additional set of GIS data in identical format to the original, one representing the POI component of the WORM model and a separate set showing the corresponding component of the WORM score. Output should be in spreadsheet format and not stored.	Joseph Michal	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/MSRA_Data_Request_No_4_G7.pdf	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA
301	MSRA	Data Request No. 4	MSRA_Data Request No. 4	8	MSRA_Data Request No. 4_G8	Please see an excel spreadsheet giving the Distribution Output OJ for each category occurring while EPSS was enabled in 2022.	Joseph Michal	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/MSRA_Data_Request_No_4_G8.pdf	0	NA	8.1.8.1	Grid Operations and Procedures	Protective Equipment and Device Settings
302	TURN	010	TURN_010	1	TURN_010_G1	PG&E's WMP (R1) at page 3 states PG&E undergrounded 180 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 related to these mileage figures.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G1.pdf	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_G2	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 top risk models." a. Please explain how the top 20 percent of risk-ranked circuit segments was identified. b. Please explain what "top 20 percent of risk-ranked circuit segments" means, and reference the data and response in part (a) to show how this is calculated.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G2.pdf	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_G3	Following on the response to TURN 010 (R1), in which TURN asked whether PG&E calculated circuit-segment risk scores for all circuits and data work shown in Attachment 2023-04-08_PGC_2023 WMP PJ, Section 6.4.2, A.001, an earlier version of which is referenced on page 195, to 77 of the WMP (R1). a. Please explain why PG&E calculated WMP risk scores for all circuits, not just the top 20 percent of risk-ranked circuit segments? b. Please explain what WMP risk scores mean, and reference the data and response in part (a) to show how this is calculated.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G3.pdf	1	NA	6.4.2	Risk Methodology and Assessment	Top Risk Circuit Segment Circuits
305	TURN	010	TURN_010	4	TURN_010_G4	Re Figure 23-34 on p. 959 (R1) a. Please provide the figure in each cell with supporting data and calculations. b. Please explain what "the weighted risk per mile" means and how it is calculated. c. Please explain what "the circuit-segment risk score" means and how it is calculated. d. Please explain what "the weighted risk per mile" is, the "total risk" is, high risk circuit-segments, and how they are defined. e. Please see WMP-Challenge0203_DR_TURN_010-G0006A01.xlsx, column E, with the weighting factor of WFE SCORES as shown on column B and C. High WFE is the basis of HFTD and PFRA miles on which circuit segments.	Tom Long	4/28/2023	5/10/2023	5/8/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G4.pdf	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-04 - Review Process of Prioritizing WSRM Mitigation
306	TURN	010	TURN_010	5	TURN_010_G5	Please provide the number of miles of secondary overhead distribution lines versus primary overhead distribution lines in PG&E's HFTD, and separately by PG&E's self-identified PFRA.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G5.pdf	1	NA	8.1.2.5	Grid Design and System Hardening	Traditional Overhead Hardening
307	TURN	010	TURN_010	6	TURN_010_G6	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 Mitigation such as Parallel Voltage Selection operations." Please provide the recent data, including all supporting documents and Partner Mitigation Selection operations. Please provide the recent data, including all supporting documents and Partner Mitigation Selection operations.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G6.pdf	4	NA	8.2.3	Vegetation Management and Inspections	Vegetation and Fault Management
308	TURN	010	TURN_010	7	TURN_010_G7	PG&E WMP (R1) at page 20 states "The types of mitigation that will be most effective are those that we conduct frequently." PG&E's decision to transition away from the Enhanced Vegetation Management (EVM) program. a. Please provide all documentation and internal communications regarding the transition away from the EVM program. b. Please provide the "effectiveness analysis" conducted by PG&E that informed the decision to discontinue the EVM program. c. Please provide annual total spending on the EVM program from 2018-2022.	Tom Long	4/28/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_010_G7.pdf	3	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fault Management
309	TURN	011	TURN_011	1	TURN_011_G1	As a representation of the quantitative difference between the top 20% risk ranked circuit segments between WORM (a) and WORM (b) models is provided in the response to TURN 011 (R1) and the 2023 PG&E WMP. The spreadsheet supporting this work is provided in Attachment WMP Discovery0203_DR_TURN_011-G001A001.xlsx. 1. PG&E WMP (R1) at page 4 references WORM (a). 2. Please explain and quantify the difference in risk ranking results between WORM (a) and WORM (b). Please provide all supporting data and analysis in Excel with working formulas. 3. Please provide all results of WORM (a) in Excel at the circuit segment, circuit protection zone, or most granular level available. This should include, at minimum, the following information in separate columns for all overhead in HFTD and self-identified PFRA areas that have been evaluated: a. Circuit segment identifier that the risk is associated with (PG&E's undergrounding workbooks). b. Number of overhead miles in the circuit segment. c. Number of overhead miles in the circuit segment that are not undergrounded (if available for currently supported projects). d. Please add C columns to the spreadsheet provided in part (b) for the number of overhead miles associated to be undergrounded in 2023, 2024, and 2025, respectively, corresponding to each circuit segment. e. Mean wildfire risk score (as per the PPSB). f. Total overhead risk score (as per the PPSB). g. Mean wildfire risk score (please explain in the response how this is calculated). h. Mean PPSB risk score (please explain in the response how this is calculated). i. As Risk Rank (please explain in the response how this is determined). j. Estimated number of underground miles to be undergrounded in the circuit (if available for currently supported projects). k. Please add C columns to the spreadsheet provided in part (b) for the number of overhead miles associated to be undergrounded in 2023, 2024, and 2025, respectively, corresponding to each circuit segment. l. The sum of the wildfire risk for all assets along that circuit segment divided by the number of assets along that circuit segment, which was previously presented on column 11. m. Note: the column not used for risk scoring, since this value is only used for risk scoring. n. NA, unless in Column 7. o. If risk scores are not calculated at the customer level and aggregated to the risk score and calculated at the customer level and aggregated to the risk score. p. See Column N. q. The risk rank is described in Section 6.4.2 of the 2023 WMP. PG&E ranked circuit segments from highest to lowest mean wildfire risk score. By ranking the means, the risk of a worst scenario is highlighted. The risk of a worst scenario is highlighted. The risk of a worst scenario is highlighted.	Tom Long	5/10/2023	5/9/2023	5/9/2023	https://www.pge.com/sites/globe/global/communications/files/2023-05/TURN_011_G1.pdf	2	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework

	ID	Category	Status	Priority	Risk Level	Dependencies	Impact	Mitigation	Status	Date	Date	Date	Link	Assignee	Comments	Risk Rating	Category	Impact	Priority
310	TURN	011	TURN_011	TURN_011_Q2	2			<p>The confidential attachment is being prepared pursuant to a signed NDA with PG&E.</p> <p>For subpart A.0, please see attachment "WMP_Discovery2023_OR_TURN_011-020004AD1_CONF_dwt".</p> <p>a. See column N for WDMIP of circuit segment identifiers. b. See column O for WDMIP of circuit segment identifiers. c. See column AB. d. See column AC. e. See column AD. f. The Risk Rank under a distributed in Section 6.4.2 of the 2023 WMP. PG&E tailored circuit segments from highest to lowest based on multiple risks. By using the relative risk of a circuit segment is determined to the length of the circuit segment. Additionally, circuit segments can be defined to either include or exclude certain circuit segments based on a hard rock or soft rock area. However, the results would be significantly impacted by the length of the circuit segment (i.e., longer circuit segments would have longer total risk scores in general). g. The circuit segment identifier is as provided in TURN Data Request 06. PG&E's Wildfire Feasibility (WFE) assesses undergrounding the alternatives of ACSE to replacement with the current element used to modify the segment factor of risk to operational and availability factors. h. The circuit segment identifier is as provided in TURN Data Request 06. PG&E's Wildfire Feasibility (WFE) assesses undergrounding the alternatives of ACSE to replacement with the current element used to modify the segment factor of risk to operational and availability factors. i. Location 1 = 1.0 feasibility, Location 2 = 1.2 feasibility. The forecasted cost is \$2.05 higher in Location 2 than in Location 1 due to feasibility. Feasibility (e.g. hard rock, water crossing, or gradient). j. Between the unit cost of undergrounding per mile per year, this is treated as 1 and does not impact the calculation of WFE. Overall, it is expected that the average feasibility across the entire portfolio will be managed within the expected unit cost, as PG&E optimizes based on operational and availability factors. After miles are selected based on WFE, locations are assessed to further detail during the project design later phases. k. See attachment: WMP_Discovery2023_OR_TURN_011-020004AD1_CONF_dwt</p>	Tom Long	5/1/2023	6/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/turn-011-020004ad1-conf-dwt.pdf	3	Yes	Appendix D	Appendix D - Assess for Continued Improvement	ACI PG&E-2018 - Progress and Updates on Undergrounding and Risk Prioritization	
311	TURN	011	TURN_011	TURN_011_Q3	3		<p>3. Regarding DR response TURN_011 attachments: "WMP_Discovery2023_OR_TURN_007-0001A43611_CONF_dwt".</p> <p>a. Please add a column to this spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WDMIP. b. Please add a column to this spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WDMIP. c. Please add a column to this spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WDMIP. d. Please add a column to this spreadsheet that provides the total wildfire risk of each circuit segment as calculated by WDMIP.</p> <p>4. Please explain why PG&E needs circuit segment identifiers to be in the spreadsheet? 5. Please explain how and whether PG&E is responsible for undergrounding conversion rates in the calculation of mitigated risk. Please provide cost references for where this is incorporated. 6. Please confirm that the sum of risk mitigated for undergrounding in 2023, 2024, and 2025, in 2.011 units, which represents 10 percent of wildfire risk.</p>	Tom Long	5/1/2023	5/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/turn-011-0001a43611-conf-dwt.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution		
312	TURN	011	TURN_011	TURN_011_Q4	4		<p>4. Regarding Attachment 2023-04-06_PGE_2023_WMP_R2_Section 6.4.2_A30101, an earlier version of which is referenced on page 161 of 177 of the WMP (41):</p> <p>a. Please add a column to this spreadsheet and provide the unique circuit segment identifier requested in 10(b)) above and 201 and 210 above.</p> <p>b. In Excel, please provide an aggregating data and property 96 calls to this spreadsheet to support "mitigated risk" calculations in the "Data_PFE" (columns C, S, and U) for undergrounding. Many of them link to documents in PG&E's internal server/workbooks.</p> <p>c. HFTD changes (please include whether this is a new or undergrounding mileage):</p> <ul style="list-style-type: none"> i. "weighted_compile_for_system_hardening_wildfire_risk_miles" ii. "HFTD mileage (please include whether this is a new or undergrounding mileage)" <p>d. "Weighted wildfire risk (and please indicate if this is the same as the WDMIP model)"</p> <p>e. "HFTD Mileage" is not a covered circuit mile, please add a column to the spreadsheet that provides overhead circuit miles for each circuit segment.</p>	Tom Long	5/1/2023	6/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/turn-011-020004ad1-conf-dwt.pdf	1	NA	8.4.2	Risk Methodology and Assessment	Top Risk Contributing Circuits/Segments		
313	CAIPA	Sat WMP-22	CAIPA_Sat WMP-22	CAIPA_Sat WMP-22_Q1	1		<p>During the project discussion of the Grid Operation, Design, and Maintenance session of the WMP workshop held on April 27, 2023, PG&E estimated that during wildfire season (May through November) that EPSS would be installed during the season in 2023.</p> <p>a) Does PG&E have a concept of the percentage of circuits that each EPSS will be installed during the season in 2023? Is this concept viable?</p> <p>b) Please define "circuit days."</p>	Holy Waltham	5/20/2023	5/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/caipa-sat-wmp-22-q1.pdf	0	NA	8.1.8.1.1	Grid Design and System Hardening	Protective Equipment and Device Settings		
314	CAIPA	Sat WMP-22	CAIPA_Sat WMP-22	CAIPA_Sat WMP-22_Q2	2		<p>During the Q&A portion of the Grid Operation, Design, and Maintenance session of the WMP workshop held on April 27, 2023, a call to action was made concerning the feasibility of undergrounding in rocky and steep terrain and in wetlands. In responses, PG&E stated that it was evaluating tools and techniques to perform undergrounding in these areas.</p> <p>Regarding undergrounding in areas with steep and rocky terrain:</p> <p>a) Please list and describe the current obstacles or barriers to undergrounding in rocky and steep terrain.</p> <p>b) What tools and techniques is PG&E evaluating to improve the feasibility of undergrounding in wetlands?</p>	Holy Waltham	5/20/2023	5/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/caipa-sat-wmp-22-q2.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution		
315	CAIPA	Sat WMP-22	CAIPA_Sat WMP-22	CAIPA_Sat WMP-22_Q3	3		<p>During the Q&A portion of the Grid Operation, Design, and Maintenance session of the WMP workshop held on April 27, 2023, a call to action was made concerning the feasibility of undergrounding in rocky and steep terrain and in wetlands. In responses, PG&E stated that it was evaluating tools and techniques to perform undergrounding in these areas.</p> <p>Regarding undergrounding in wetlands areas:</p> <p>a) Please list and describe the current obstacles or barriers to undergrounding in wetlands.</p> <p>b) What tools and techniques is PG&E evaluating to improve the feasibility of undergrounding in wetlands?</p> <p>c) What tools and techniques is PG&E evaluating to improve the feasibility of undergrounding in wetlands?</p>	Holy Waltham	5/20/2023	5/30/2023	5/30/2023	https://www.pge.com/globalassets/customer-portal/caipa-sat-wmp-22-q3.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution		

326	CA/PA	Sat WMP-23	CA/PA_Sat WMP-23	3	CA/PA_Sat WMP-23_Q3	<p>Regarding PG&E's AFN/PA&S Appendix C Program/Assistance Participation by Census Tract, p. A-6, please provide the demographics (especially racial/ethnic breakdown and income distribution), if known, for each census tract that received benefits of the following program:</p> <ul style="list-style-type: none"> a) Self-Generation Incentive Program b) Portable Battery Program c) Generator and Battery Reliance Program (GBRP) 	Holly Wehrman	5/3/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	3	NA	6.5.3	Community Outreach and Engagement	Engagement with Access and Functional Needs Population
327	OEIS	004	OEIS_004	1	OEIS_004_Q1	<p>Regarding Ignition-Probability Weather Model (IPW) in PG&E's WMP: 4. What is the IPW framework analysis positive and negative changes in grid performance and reliability expected year and explain a meaningful approach to weigh more recent levels of learned performance more heavily in the fire model output? 700</p> <p>a) How does the IPW Model account for year-over-year changes in grid performance and reliability?</p> <p>b) Provide a description (i.e. changes in event, ignition, and outage numbers) and location of changes PG&E has observed in grid performance based on engineering/operation/fielding obligations, including the amount of time back to observe any statistical changes that would account for changes in PG&E decision-making.</p> <p>c) How is year-to-year weather variation accounted for in the analysis of year-over-year changes in grid performance and reliability?</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	0	NA	9.2.1	Public Safety Power Shutoff	Risk Thresholds (e.g., WE, FPE, etc.) and Decision-Making Process That Determine the Need for a PG&S
328	OEIS	004	OEIS_004	2	OEIS_004_Q2	<p>Regarding EPSS in IPW Model</p> <p>PG&E discusses its Ignition-Probability Weather (IPW) Model on p. 765 of the WMP.</p> <p>a) How does the IPW Model analyze and consider outages from EPSS (i.e. differentiating analysis completed)?</p> <p>b) How does the IPW Model account for EPSS-enabled circuits?</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	0	NA	9.2.1	Public Safety Power Shutoff	Risk Thresholds (e.g., WE, FPE, etc.) and Decision-Making Process That Determine the Need for a PG&S
329	OEIS	004	OEIS_004	3	OEIS_004_Q3	<p>Regarding After Action Reports for Emergency Preparedness</p> <p>Provide the most recent After Action Report from emergency training exercises for the following exercises:</p> <ul style="list-style-type: none"> a) Table 8-20 Personnel Training b) Table 8-21 Emergency Preparedness Training Program c) PG&E's Emergency Preparedness Training Program d) PG&E's Exercise for Distribution Control Center (DCC) Operations e) PG&E's Table 8-41 External Contractor Training f) TD-14643 g) PG&E's Table 8-42 External DHE, Simulation, and Tabletop Exercise Program h) Operations Based OMI/IE F/E i) Table 8-42 External DHE, Simulation, and Tabletop Exercise Program j) Operations Based OMI/IE F/E k) Operations Based PG&S F/E 	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	2	NA	8.4.2.2	Emergency Preparedness	Personnel Training
330	OEIS	004	OEIS_004	4	OEIS_004_Q4	<p>Regarding Customer Group in PG&S Objective PS-05</p> <p>PG&E identifies that it will focus on a group of customers "not listed by AFN, MFL and self-identified vulnerability populations."</p> <p>a) What does PG&E define the group of customers it is focusing on?</p> <p>b) What is the size of this group of customers that PG&E is focusing on?</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
331	OEIS	004	OEIS_004	5	OEIS_004_Q5	<p>Regarding Areas of Concern and Focused Tree Inspections (FTI)</p> <p>a) How will PG&E address areas from green hazard trees (i.e. obviously dead, dying, or declining) in non-Areas of Concern (AOC)?</p> <p>b) PG&E's WMP, 2022 PG&E-003, Question 1, PG&E indicated that ISA TRAG form is not digital and will be used as a paper form. During FTI, what information is required on the ISA TRAG? Provide a copy of the form(s) within OneDrive.</p> <p>c) During FTI, are all overvoltage trees included in the AOC inspection?</p> <p>d) If so, are inspectors required to perform both a level 1 and level 2 inspection on each overvoltage tree?</p> <p>e) How many critical trees with PG&E's AOCs were treated under the EVM program?</p> <p>f) On page 56 of PG&E's WMP, it states, "Our Operational Mitigation includes programs such as Enhanced Powerline Safety Settings (EPSS) and Focused Tree Inspections." FTI is not described as an "operational mitigation." Describe the OMI. Check this statement.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspectors
332	OEIS	004	OEIS_004	6	OEIS_004_Q6	<p>Regarding Enhanced Vegetation Management</p> <p>a) Populate the following table with information regarding EVM:</p> <p>Year</p> <p>FTD Miles Completed</p> <p>Inspected</p> <p>Pruned</p> <p>Tree Trims Worked</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 tree features showing where EVM work was completed.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	1	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs
332	OEIS	004	OEIS_004	6	OEIS_004_Q6a	<p>Regarding Enhanced Vegetation Management</p> <p>a) Populate the following table with information regarding EVM:</p> <p>Year</p> <p>FTD Miles Completed</p> <p>Inspected</p> <p>Pruned</p> <p>Tree Trims Worked</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 tree features showing where EVM work was completed.</p>	Colin Lang	5/4/2023	5/15/2023	5/15/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	0	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs
333	OEIS	004	OEIS_004	7	OEIS_004_Q7	<p>Q7: Regarding Vegetation-Caused Outages</p> <p>a) Populate the following table of vegetation-caused outages by mode of failure in the FTED between 2015 and 2022, broken out by year. PG&E may add additional rows (i.e., mode of failure) if needed.</p> <p>VEGETATION CAUSED OUTAGE MODE OF FAILURE</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>b) PG&E does not capture the FTED that is outage reports therefore the data being provided cannot be filtered to only include outages in FTED areas. Please see attachment "WMP-Discovey2023_DR_OEIS_004-Q007AFN1.xlsx" for the system wide vegetation-caused outage by mode of failure from 2015-2022 as reported by PG&E.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.sca.com/bay_global/governance/governance-reports-and-transparency/2023-annual-report/2023-annual-report-2023-05-09	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-23-28 - Progress of Effectiveness of Enhanced Customers Joint Study

340	OEIS	004	OEIS_004	14	OEIS_004_014	<p>Regarding POGE's Use of Overhead Conductor Detection (OCD) and Partial Voltage Detection (PVD)</p> <p>a. Provide any analysis completed on reliability impacts due to OCD, including:</p> <ol style="list-style-type: none"> The number of outages that occurred due to OCD in 2022 and 2023. The number of outages broken down by cause based on ignition drivers listed in Table 6 of the QDR that occurred due to OCD in 2022 and 2023. Criteria used for OCD enforcement (if applicable). The number of total customer minutes recovered from OCD outages. <p>b. Any mitigation POGE is using to reduce reliability impacts from OCD implementation, including lessons learned from any shoring.</p> <p>c. When evaluating outages due to EPSS, are OCD and PVD outages included as part of that evaluation?</p> <p>d. If so, what is the number of additional outages caused by PVD and OCD respectively in 2022?</p> <p>e. If not, how does POGE account for and track any associated reliability and safety impacts from OCD and PVD implementation, and how does that inform changes to the test program?</p>	<p>In Data as of May 4th, 2023 for 2022-2023 OCD Outages:</p> <ol style="list-style-type: none"> 17 outages have occurred with OCD settings enabled. The table below matches outage causes to the Ignition Drivers used in Table 6 of the 2022 QDR Quarterly Data Report. OCD is an additional protection element as part of EPSS. POGE will enable OCD on eligible devices when EPSS is enabled to help detect near current fault conditions. 4,723,298 Minutes. <p>OCD outages and circuits are already considered in our existing EPSS Reliability Program. Specific to OCD, POGE is testing more specific OCD settings on circuits to, where feasible, increase identification of single phase faults that will reduce outage time and restoration point of time while maintaining the ignition-reduction benefit. In addition, a class of protection cause OCD outages, or with multiple OCD outages on single device, our engineering is testing protection horizontal protection on the identification settings of PVD devices.</p> <p>Date as of May 4th, 2023 for 2022-2023 Partial Voltage Outages (PVD):</p> <ol style="list-style-type: none"> 33 outages have occurred from PVD. The table below matches outage causes by circuit based on ignition drivers listed in Table 6 of the QDR that occurred due to PVD in 2022 is shown below. WMP-Discovery2022_DR_OEIS_004-Q01 Page 3 Partial Voltage Fence Out is a manual action taken by a distribution control center operator in PV alarm when multiple meters aggregating to a line level indicate a partial voltage condition, and further we will clear PV alarms if normal voltage returns. These circuits are included in the scope of POGE's existing EPSS Reliability Mitigation programs. In addition, POGE's PV alarm configuration is designed to prevent nuisance alerts from transient conditions by sending the distribution control center operator a PV alarm when multiple meters aggregating to a line level indicate a partial voltage condition, and further we will clear PV alarms if normal voltage returns. Yes. A "OCD outage" is an EPSS outage. POGE also evaluates PVD outages. POGE regularly updates its test program to include additional test scenarios. POGE does not use a "risk-informed prioritization" when selecting wildfire mitigation. As described through the 2023 2023 WMP, and quantified in Section 17.1.2, we began developing our list of proposed mitigations by analyzing risk events, risk drivers, and consequences. Subject to and without meeting these objectives, POGE responds as follows: Please see attachment "WMP-Discovery2023_DR_OEIS_004-Q01-54601.pdf". This decision tree reflects the process we follow to further analyze our highest risk underpinning circuits included in the WMP. The process, as shown on the decision tree attachment and described below, is split into four key phases. <ol style="list-style-type: none"> Circuit Segment Risk Ranking (based on historical protection circuit segments in the location where wildfire risk is the highest based on the latest wildfire distribution risk model (current WDRM v2). Circuit Selection Prioritization Process (blue boxes). Then identify identified environmental conditions that impact feasibility of wildfire feasibility (yellow VFE) by circuit segment to prioritize undergrounding the location where VFE is the highest. Feasibility Study (green boxes). First, we confirm the segment identified is already completed or included in existing work. Then, engineering review identifies opportunities to improve fire resistance and mitigate additional impacts, including opportunities to improve PDEP or EPSS impacts, including: <ul style="list-style-type: none"> Identifying and undergrounding, or otherwise fire, identifying alternatives such as overhead, remote grid or hybrid, and confirming there are any other changes to the electric system. Field Scoping (orange boxes). Field scoping then takes place, which is focused on identifying impediments to the proposed plan, and determining if a scale or scope change is needed. If so, an alternative route is developed. Then, we sequence fieldwork tasks and begin the planning for it. An outreach in the 2023 WMP (p. 56). POGE evaluated the statistical significance of wildfire risk reduction from this table, which is outlined on the Discovery conclusion. <p>In the 2022 EPSS implementation, we have been working on the Discovery conclusion.</p>	Colin Lang	5/4/2023	5/9/2023	5/9/2023	https://www.wa.gov/energy/publications/wa-energy-publications/wildfire-mitigation-2023-05-04-01-54601.pdf https://www.wa.gov/energy/publications/wa-energy-publications/wildfire-mitigation-2023-05-04-01-54601.pdf https://www.wa.gov/energy/publications/wa-energy-publications/wildfire-mitigation-2023-05-04-01-54601.pdf	0	NA	8.1.2.10.1	Grid Design and System Hardware	Overhead Conductor Detection Devices
341	OEIS	004	OEIS_004	15	OEIS_004_015	<p>Regarding Feasibility Constraints</p> <p>POGE will, as an exploration of a full set of feasibility constraints impact the decision making of the Wildlife Governance Steering Committee in selecting a portfolio of mitigation measures that deviates from the risk informed approach. This includes:</p> <ol style="list-style-type: none"> A flowchart or explanation of decision making as processed by the Wildlife Governance Steering Committee. The information between VFE and WFE. The correlation between WFE and feasibility. Any associated ability in prioritization due to implementing feasibility constraints. A list of any projects not included within US scope due to feasibility constraints. 	<p>In Data as of May 4th, 2023 for 2022-2023 OCD Outages:</p> <ol style="list-style-type: none"> 17 outages have occurred with OCD settings enabled. The table below matches outage causes to the Ignition Drivers used in Table 6 of the 2022 QDR Quarterly Data Report. OCD is an additional protection element as part of EPSS. POGE will enable OCD on eligible devices when EPSS is enabled to help detect near current fault conditions. 4,723,298 Minutes. <p>OCD outages and circuits are already considered in our existing EPSS Reliability Program. Specific to OCD, POGE is testing more specific OCD settings on circuits to, where feasible, increase identification of single phase faults that will reduce outage time and restoration point of time while maintaining the ignition-reduction benefit. In addition, a class of protection cause OCD outages, or with multiple OCD outages on single device, our engineering is testing protection horizontal protection on the identification settings of PVD devices.</p> <p>Date as of May 4th, 2023 for 2022-2023 Partial Voltage Outages (PVD):</p> <ol style="list-style-type: none"> 33 outages have occurred from PVD. 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POGE regularly updates its test program to include additional test scenarios. POGE does not use a "risk-informed prioritization" when selecting wildfire mitigation. As described through the 2023 2023 WMP, and quantified in Section 17.1.2, we began developing our list of proposed mitigations by analyzing risk events, risk drivers, and consequences. Subject to and without meeting these objectives, POGE responds as follows: Please see attachment "WMP-Discovery2023_DR_OEIS_004-Q01-54601.pdf". This decision tree reflects the process we follow to further analyze our highest risk underpinning circuits included in the WMP. The process, as shown on the decision tree attachment and described below, is split into four key phases. <ol style="list-style-type: none"> Circuit Segment Risk Ranking (based on historical protection circuit segments in the location where wildfire risk is the highest based on the latest wildfire distribution risk model (current WDRM v2). 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342	OEIS	004	OEIS_004	16	OEIS_004_016	<p>Regarding Effectiveness of EPSS</p> <p>a. Provide the formulas and calculations used by POGE to determine the effectiveness of EPSS.</p> <p>b. Provide analysis demonstrating adequate overlap between EPSS risk and wildfire risk to ensure POGE's mitigations are directly addressing wildfire risk opposed to liability.</p> <p>c. Provide POGE's workflow for ensuring EPSS-directed mitigation measures, including safety and work hours affected around from wildfire risk mitigations. This should also include asset management related mitigations.</p>	<p>In Data as of May 4th, 2023 for 2022-2023 OCD Outages:</p> <ol style="list-style-type: none"> 17 outages have occurred with OCD settings enabled. The table below matches outage causes to the Ignition Drivers used in Table 6 of the 2022 QDR Quarterly Data Report. OCD is an additional protection element as part of EPSS. 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343	OEIS	004	OEIS_004	17	OEIS_004_017	<p>Regarding POGE's Undergrounding Program</p> <p>a. Provide the cumulative VFE and CI risk scores of the 2022 WMP vs. 2023 WMP undergrounding scope for 2023. This should not include nor account for feasibility.</p> <p>b. Provide the analysis on the remaining risk of the risks no longer scoped for undergrounding, including:</p> <ol style="list-style-type: none"> Reasons mitigations being put into place if accepted for undergrounding in the future. The number of risks scoped for the future (year 2028). Alternative mitigations being used if no longer scoped for undergrounding. 	<p>In Data as of May 4th, 2023 for 2022-2023 OCD Outages:</p> <ol style="list-style-type: none"> 17 outages have occurred with OCD settings enabled. The table below matches outage causes to the Ignition Drivers used in Table 6 of the 2022 QDR Quarterly Data Report. OCD is an additional protection element as part of EPSS. 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344	TURN	012	TURN_012	1	TURN_012_01	<p>1. Please confirm that the Simplified Wildfire Risk Speed Efficiency (SWRSE) and Wildlife Feasibility Expenditure (WFE) measures discussed on page 68 of POGE's WMP.</p> <p>2. Are all VFE calculated by POGE for undergrounding projects, and</p> <p>3. Are all WFE calculated by POGE for undergrounding projects, and</p> <p>4. Are all WFE calculated by POGE for undergrounding projects, and</p> <p>5. If POGE does not unequivocally identify with "and" or "or" above, please explain why it does not.</p>	<p>In Data as of May 4th, 2023 for 2022-2023 OCD Outages:</p> <ol style="list-style-type: none"> 17 outages have occurred with OCD settings enabled. The table below matches outage causes to the Ignition Drivers used in Table 6 of the 2022 QDR Quarterly Data Report. OCD is an additional protection element as part of EPSS. 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345	TURN	012	TURN_012	2	TURN_012_Q2	2	TURN_012_Q2	2	TURN	5/5/2023	5/1/2023	5/1/2023	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities
346	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	1	CPUC - SPD (Safety Policy Division)_004_01	1	CPUC - SPD (Safety Policy Division)_004_01	1	Henry Swast	5/5/2023	5/1/2023	5/1/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	AGI PG&E-22-08 - Addressing Increases in Risk Events
347	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	2	CPUC - SPD (Safety Policy Division)_004_02	2	CPUC - SPD (Safety Policy Division)_004_02	2	Henry Swast	5/5/2023	5/1/2023	5/1/2023	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	AGI PG&E-22-08 - Addressing Increases in Risk Events
348	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	3	CPUC - SPD (Safety Policy Division)_004_03	3	CPUC - SPD (Safety Policy Division)_004_03	3	Henry Swast	5/5/2023	5/1/2023	5/1/2023	0	NA	8.3.6	Situational Awareness and Forecasting	Fire Potential Index
349	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	4	CPUC - SPD (Safety Policy Division)_004_04	4	CPUC - SPD (Safety Policy Division)_004_04	4	Henry Swast	5/5/2023	5/1/2023	5/1/2023	0	NA	8.3.6	Situational Awareness and Forecasting	Fire Potential Index
350	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	5	CPUC - SPD (Safety Policy Division)_004_05	5	CPUC - SPD (Safety Policy Division)_004_05	5	Henry Swast	5/5/2023	5/1/2023	5/1/2023	0	NA	8.3.6	Situational Awareness and Forecasting	Fire Potential Index
351	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	6	CPUC - SPD (Safety Policy Division)_004_06	6	CPUC - SPD (Safety Policy Division)_004_06	6	Henry Swast	5/5/2023	5/1/2023	5/1/2023	0	NA	8.3.6	Situational Awareness and Forecasting	Fire Potential Index
352	CAI&P	Set WMP-24	CAI&P_Set WMP-24	1	CAI&P_Set WMP-24_01	1	CAI&P_Set WMP-24_01	1	Holly Weisman	5/9/2023	5/1/2023	5/1/2023	2	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment
353	MGRA	Data Request No. 5	MGRA_Data Request No. 5	1	MGRA_Data Request No. 5_01	1	MGRA_Data Request No. 5_01	1	Joseph Michal	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1.1, 6.4.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Writes the FFRAs Proposed Updates to HFTD
354	MGRA	Data Request No. 5	MGRA_Data Request No. 5	2	MGRA_Data Request No. 5_02	2	MGRA_Data Request No. 5_02	2	Joseph Michal	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1.1, 6.4.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Writes the FFRAs Proposed Updates to HFTD
355	MGRA	Data Request No. 5	MGRA_Data Request No. 5	3	MGRA_Data Request No. 5_03	3	MGRA_Data Request No. 5_03	3	Joseph Michal	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1.1, 6.4.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Writes the FFRAs Proposed Updates to HFTD

372	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	1	CPUC - SPD (Safety Policy Division)_005_01	<p>1. Regarding costs inherent in PG&E's undergrounding grid hardening mitigation relative projects, used in calculating cost efficiency and project feasibility as described in the 2023-2025 WMP (p. 340 and p. 586), to date and looking forward:</p> <p>A) What is the average cost per circuit mile for undergrounding in 2022, 2023, and 2025, in the HFTD, non-HFTD, and wilderness?</p> <p>B) What is the average cost per circuit mile expected in 2023, 2024, and 2025, in the HFTD, non-HFTD, and wilderness?</p> <p>C) For subareas a, b, and c, explain expected, average year-over-year and changes.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_01.pdf	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
373	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	2	CPUC - SPD (Safety Policy Division)_005_02	<p>2. Provide the utility's cost estimate breakdown for undergrounding per mile. Provide the cost estimate in a commonly used cost-estimating format (e.g., Uniformat). If the utility uses a different format, provide internal documentation on that format so SPD can understand the cost estimate.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_02.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
374	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	3	CPUC - SPD (Safety Policy Division)_005_03	<p>3. How is PG&E incorporating subsurface variability (e.g., encountering hard rock, soils, or other conditions presenting significant physical obstacles) into undergrounding cost calculations? Provide an example.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_03.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
375	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	4	CPUC - SPD (Safety Policy Division)_005_04	<p>4. PG&E has stated that CallTerra trench depth requirements exceeded PG&E trench depth requirements. How has this impacted costs and planning? For planning purposes, what percentage of anticipated underground circuit miles will be impacted by the CallTerra trench depth requirements for 2023-2025?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_04.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
376	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	5	CPUC - SPD (Safety Policy Division)_005_05	<p>5. How does service loss impact cost calculation?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_05.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
377	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	6	CPUC - SPD (Safety Policy Division)_005_06	<p>6. What is the estimated multiplier for conversion from overhead (OH) line to underground (UG) line (e.g., 1.25 line OH converts to 1.625 UG)?</p> <p>A) How was this conversion rate derived?</p> <p>B) How was it established as the accepted operating average for project planning purposes?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_06.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
378	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	7	CPUC - SPD (Safety Policy Division)_005_07	<p>7. On pilot projects completed to date:</p> <p>A) What is the total dollar cost per mile?</p> <p>B) What is the breakdown of project costs per mile? SPD requests to see the following components made up of the total, although SPD understands they may not be broken down in the exact format:</p> <ul style="list-style-type: none"> • Licensing (e.g., primary line, secondary line, service drop) • Design (e.g., steel tower erected and erected designs) • Design Engineering (e.g., labor, materials, other costs) • Construction (e.g., permits, contracts, long-lead materials) • Construction (e.g., civil construction, electric construction) • Other (e.g., direct expenses to homeowners as homeowners may complete work such as landscaping or road repair) 	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_07.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
379	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	8	CPUC - SPD (Safety Policy Division)_005_08	<p>8. Please provide WMP-Disclosure2023_DR_TURN_007-001-A1201CONF.xlsx, used to address TURN Data Request 5, Question 1, discussing RSE calculation for system hardening.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_08.pdf	1	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
380	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	9	CPUC - SPD (Safety Policy Division)_005_09	<p>9. On page 101 of the 2023-2025 WMP, PG&E states that the WDMRA ignition source is "PG&E's Historical Ignition Data, 2015-2021 (approximately 2,000 non-CPUC-representable ignitions and approximately 1,900 non-representable ignitions)." PG&E is using the 1,900 non-CPUC-representable ignitions in its risk modeling.</p> <p>A) Provide the 1,900 non-CPUC-representable ignitions data as a spreadsheet in format similar to the existing CPUC-representable ignitions data (as in DR SPD_PGAE_2023_004 and in Wilderness and Wilderness Safety (a.pdf), under Fire Ignition Data).</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/005_09.pdf	0	NA	8.2.1	Risk Methodology and Assessment	Risk and Risk Component Identification																																																		
381	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006	1	CPUC - SPD (Safety Policy Division)_006_01	<p>1. After it was pointed out by SPD that there appeared to be a discrepancy in the methodologies used to calculate the risk mitigation effectiveness of EPDS, Undergrounding and Covered Conductors (UCC), PG&E stated that UCC is probably the most "realistic" mitigation effectiveness as the effectiveness based on empirical data across utility subdivisions. EPDS in the second report is based on empirical data, and that UCC is the least realistic mitigation effectiveness as it is based upon an SME judgement. PG&E agreed to update its undergrounding mitigation effectiveness percentage calculations to account for secondary service drop ignitions.</p> <p>A) Provide this analysis or provide an update on when this analysis will be finished and under the analysis when it is finished.</p>	Kevin Miller	5/17/2023	5/23/2023	5/23/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/006_01.pdf	0	NA	8.1.1.1	Grid Design, Operations, and Maintenance	Protective Equipment and Device Settings																																																		
382	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006	2	CPUC - SPD (Safety Policy Division)_006_02	<p>2. PG&E asserted that PG&E is addressing the risk from secondary lines and service drops in part by replacing secondary lines with covered conductors and steel towers with steel poles. PG&E stated that PG&E's response to Question 4 of SPD_PGAE_2024_003 for additional description, PG&E also stated that there may need to be a change in the way that the risk is calculated. PG&E is only meant to apply to primary lines (not over-entire within risk). PG&E is using clarifying the information in its message?</p> <p>A) How does PG&E intend to clarify the information in its message?</p>	Kevin Miller	5/17/2023	5/23/2023	5/23/2023	https://www.pge.com/globalassets/customer-support/undergrounding/2023-2025-wmp/006_02.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution																																																		
						<p>1. PG&E uses the following table for average cost per circuit mile for undergrounding, split between base System Hardening undergrounding work and the related work. All completed undergrounding circuit miles in 2022, 2021, and 2020 are in HFTD.</p> <table border="1"> <tr> <th>Year</th> <th>Completed Base UG Total Unit Cost (Average in \$/M)</th> <th>The Related UG Total Unit Cost (Average in \$/M)</th> </tr> <tr> <td>2020</td> <td>\$6.21</td> <td>\$4.21</td> </tr> <tr> <td>2021</td> <td>\$8.21</td> <td>\$5.21</td> </tr> <tr> <td>2022</td> <td>\$8.48</td> <td>\$5.16</td> </tr> </table> <p>2. PG&E uses the following table for average cost per circuit mile, particularly the related factors in the Center and North-Central areas, more representative per mile than the base system hardening undergrounding costs based on the cost of materials and labor. The costs are based on the average cost per mile of these environments (e.g., expedited timelines, accelerated permitting, geographic terrain).</p> <table border="1"> <tr> <th>Year</th> <th>Completed Base UG Total Unit Cost (Average in \$/M)</th> <th>The Related UG Total Unit Cost (Average in \$/M)</th> </tr> <tr> <td>2020</td> <td>\$6.21</td> <td>\$4.21</td> </tr> <tr> <td>2021</td> <td>\$8.21</td> <td>\$5.21</td> </tr> <tr> <td>2022</td> <td>\$8.48</td> <td>\$5.16</td> </tr> </table> <p>3. The current forecasted average cost per circuit mile for undergrounding, including the Related and Base UG, is \$12.20 million in 2023, \$3.13 million in 2024, and \$2.88 million in 2025. All planned undergrounding projects are in HFTD or high risk areas (HRA).</p> <p>4. As shown in the responses to subparts a & b, the year-over-year cost has generally decreased, and is expected to further decrease, due to multiple factors as we scale the program, including but not limited to:</p> <ul style="list-style-type: none"> • Economies of scale as the program knowledge and familiarity grows with our internal crews, contractors, materials suppliers, designers and many others; • Undergrounding process efficiencies through lessons learned; • Updating standards for design and construction, such as writing the trench hardening standards. <p>5. PG&E uses the following table for cost components estimated contribution to the total cost. These estimates are based on actual costs for completed undergrounding in 2022-2023. This year completed projects are PG&E's least currently available representation of the cost estimating breakdown and is expected to be similar in future years.</p> <table border="1"> <tr> <th>Component</th> <th>Contribution to Total Cost (Average in \$/M)</th> </tr> <tr> <td>Materials</td> <td>16%</td> </tr> <tr> <td>Contractor</td> <td>51%</td> </tr> <tr> <td>Overhead</td> <td>10%</td> </tr> <tr> <td>Other</td> <td>2%</td> </tr> <tr> <td>Financing</td> <td>1%</td> </tr> <tr> <td>UGD</td> <td>1%</td> </tr> </table> <p>6. PG&E recognizes that subsurface variability contributes to undergrounding cost, but does not incorporate a specific subsurface variability factor into its projected cost forecasts.</p> <p>7. For completed work, costs associated with subsurface variability are captured in the individual project level, which is incorporated into the average cost per mile of the overall PG&E. PG&E's construction teams conduct site variability and how those issues can impact projects costs in PG&E's Wildfire Mitigation Plan - WMP - Disclosure2023_DR_CallTerra002_002-0003.</p> <p>8. PG&E has not made changes to our per mile cost forecasts related to CallTerra trench depth requirements. Planning CallTerra trench requirements is incorporated into individual project design packages.</p> <p>9. The approved CallTerra trench depth planned in the 2023-2028 Undergrounding Program will be the same as the 2023-2025 WMP. CallTerra trench depth requirements are incorporated into the CallTerra trench depth requirements in the CallTerra trench depth requirements in the WMP. Engineers incorporate CallTerra trench depth requirements into the individual project design packages. The cost of the planning and the CallTerra trench requirements for each of these projects is subject to final results of identification.</p> <p>10. PG&E has not made changes to our per mile cost forecasts related to CallTerra trench depth requirements. Planning CallTerra trench requirements is incorporated into individual project design packages.</p> <p>11. Service loss is not considered in these calculations, but is expected to be longer than overhead. PG&E expects that overhead and undergrounding work will be similar in length long-term costs for operations and maintenance, vegetation management, and other related work.</p> <p>12. The original estimated conversion of overhead to underground mileage (1.25) was based on an estimated multiplier response to April 2023. PG&E completed a manual review of 19 projects completed in 2022 to update this estimate. In these 19 projects, we reviewed approximately 127 overhead miles and reported approximately 102 underground miles based on the subset of data, which is generally consistent with the estimated conversion rate for our overall portfolio. PG&E has updated the conversion to underground was 1.3. Please also see response to 2023 WMP - Disclosure TURN 001-001, subpart 6b.</p> <p>13. The response is as follows:</p> <p>A) In 2023, PG&E completed two pilot projects to convert overhead primary conductors to underground primary conductors. The total dollar cost per mile for each pilot project is noted in the below table:</p> <table border="1"> <tr> <th>Pilot Project #</th> <th>Total Cost (\$/M)</th> </tr> <tr> <td>1</td> <td>\$20,989,880</td> </tr> <tr> <td>2</td> <td>\$11,811,847</td> </tr> </table> <p>B) PG&E breaks down actual costs slightly differently than the format suggested by SPD for the question for undergrounding the projects. PG&E's cost breakdown format agreed on in partnership with other IOUs. The following components contribute to the total:</p> <ul style="list-style-type: none"> • Labor (Personnel) • Materials • Contractor • Overhead (contract, etc.) • Other • Financing Costs <p>The costs for each of the two pilot projects by component are shown in the table below:</p> <table border="1"> <tr> <th>Pilot Project #</th> <th>Total Cost (\$/M)</th> </tr> <tr> <td>1</td> <td>\$20,989,880</td> </tr> <tr> <td>2</td> <td>\$11,811,847</td> </tr> </table> <p>14. PG&E has not made changes to our per mile cost forecasts related to CallTerra trench depth requirements. Planning CallTerra trench requirements is incorporated into individual project design packages.</p>	Year	Completed Base UG Total Unit Cost (Average in \$/M)	The Related UG Total Unit Cost (Average in \$/M)	2020	\$6.21	\$4.21	2021	\$8.21	\$5.21	2022	\$8.48	\$5.16	Year	Completed Base UG Total Unit Cost (Average in \$/M)	The Related UG Total Unit Cost (Average in \$/M)	2020	\$6.21	\$4.21	2021	\$8.21	\$5.21	2022	\$8.48	\$5.16	Component	Contribution to Total Cost (Average in \$/M)	Materials	16%	Contractor	51%	Overhead	10%	Other	2%	Financing	1%	UGD	1%	Pilot Project #	Total Cost (\$/M)	1	\$20,989,880	2	\$11,811,847	Pilot Project #	Total Cost (\$/M)	1	\$20,989,880	2	\$11,811,847										
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397	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	4	CPUC - SPD (Safety Policy Division)_009_04	<p>PG&E is able to verify that a message was delivered to the phone number and/or email address on file for the customer of record associated with the premises identified as impacted by a potential PSPS, EPSS outage, and/or outage due to a wildfire. Phone numbers and email addresses are requested at the time an account is established and are verified when a customer logs into My Account at pg&e.com on an annual basis and/or if a customer speaks with a Contact Center Customer Service Representative (CSR) and has not verified contact information in the past 60 days of CSR. To ensure we have the most updated contact information for customers of record, wildfire safety-related outreach material includes a standard call to action to update contact information. In addition, Business Energy Solutions Account Reps engage with critical facilities and infrastructure, telecommunications and water providers and transmission level entities to high risk areas and help to be reached by PG&E and/or EPSS annually to confirm contact information for the purposes of outage notification. Contact information is updated through the My Account portal via regular engagement by the AFN, the CCB, and the Fire and Public Safety and the MBL and/or DTV. Customers to specify changes via email and email to encourage correct information. PG&E will continue to send weekly notices to verify contact information or provide correct information as documented in our Customer Care and Billing System (CCBS). Additionally, we coordinate contact information updates through our other program applications (e.g., CAREPERA and related) to run a daily sync between our Switching Application used to process these program applications and MBL database within the CCBS system. These weekly and daily processes are executed year-round to help ensure the MBL and DTV contact information is current. Local and state agencies and first responders are engaged by Local Government Affairs and Public Safety Specialists annually to confirm contact information independently year-over-year for the purposes of outage notification.</p> <p>The MBL and DTV customers we send email communication either by email or a postcard (if an email address is not provided by the customer) between March and August. To enhance the experience of having up-to-date contact information on file and encourage them to provide an alternative means of contact for PSPS notifications, MBL and DTV information is updated automatically and in real-time when a customer logs into their PG&E account and updates their information or when it is provided to a PG&E representative.</p> <p>Requests to change contact information can be changed by customers via our website, when updates are received directly from our Quality Issues and Quality Changes. For example, contact information can be changed by customers via our website, when updates are received directly from our Quality Issues and Quality Changes (QAIC) the MBL and DTV customer contact information, we conduct a weekly review of our customer care and billing system (CCBS). Additionally, we cross reference contact information from our other program applications (e.g., CAREPERA and related) to run a daily sync between our Switching Application used to process these program applications and MBL database within the CCBS system. These weekly and daily processes are executed year-round to help ensure the MBL and DTV contact information is current.</p> <p>PG&E considers PSPS notifications for medical facilities customers as "critical" if one of the following occurs. Customer answers the phone, text confirmation is received back from the customer, a call is answered or a text is received, or a call is tracked on the customer's mobile device, or a call is answered.</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.4.1	Emergency Preparedness	Protocols for Emergency Communications
398	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	5	CPUC - SPD (Safety Policy Division)_009_05	<p>SPG&E issues notifications to AFN/MBL responders. How does PG&E know that these notifications are received and that contact information is up to date?</p> <p>Does PG&E have a way to continuously/periodically verify that the contact information on file is current to help ensure such important notices are being received by the intended recipient?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
399	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	6	CPUC - SPD (Safety Policy Division)_009_06	<p>PG&E monitors pre-pandemic in-person engagement. Does PG&E have data comparing pre-pandemic engagement to pandemic timeframe engagement efforts and among other things, attendance? For instance, are there metrics comparing on-site/AFN/MBL and AFN/MBL?</p>	Kevin Miller	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	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>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 polystandards 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	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
405	CaPA	Set WMP-26	CaPA_Set WMP-26	1	CaPA_Set WMP-26_01	<p>(a) Please describe your general process or strategy for developing load forecasts.</p> <p>(b) Do you have a written process or procedure for developing load forecasts?</p> <p>(c) If the answer to (b) is "yes," provide a copy.</p> <p>(d) If the answer to (b) is "no," explain why not.</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	2	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
406	CaPA	Set WMP-26	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	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
407	CaPA	Set WMP-26	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 design of load growth do you design for?</p> <p>(c) Describe your process for incorporating forecasted load growth into the design of system hardening projects (for instance, which scenarios of possible load growth are considered).</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
408	CaPA	Set WMP-26	CaPA_Set WMP-26	4	CaPA_Set WMP-26_04	<p>(a) In a typical bare conductor to covered conductor conversion project, is the intention to maintain, increase, or decrease the load capacity of open operating transformers? (b) Explain the reasoning for your response to part (a).</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	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	5	CaPA_Set WMP-26_05	<p>(a) Are all 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 how.</p> <p>(c) If the answer to (a) is "no," explain why not.</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	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	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 how.</p> <p>(c) If the answer to (a) is "no," explain why not.</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	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	7	CaPA_Set WMP-26_07	<p>Describe the challenges or advantages entailed in increasing load capacity on a circuit that has previously been hardened with covered conductor.</p>	Holy Wellman	7/17/2023	8/10/2023	8/10/2023	https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing https://www.pge.com/energy-solutions/customer-care-and-billing	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

ID	CA/PA	Set WMP-27	CA/PA_Sat WMP-27	7	CA/PA_Sat WMP-27_07	Planned events or PGE's of 2022 Annual Electric Reliability Report. This should be similar to the documents posted to TURN in response to TURN-PG&E-3, question 2, on April 10, 2023.	Planned work "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01.pdf" for a copy of our 2022 Annual Electric Reliability Report.	Holy Wellman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	1	NA	NA	NA	NA
421	CA/PA	Set WMP-27	CA/PA_Sat WMP-27	7	CA/PA_Sat WMP-27_07	Planned events or PGE's of 2022 Annual Electric Reliability Report. This should be similar to the documents posted to TURN in response to TURN-PG&E-3, question 2, on April 10, 2023.	Planned work "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01.pdf" for a copy of our 2022 Annual Electric Reliability Report.	Holy Wellman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	1	NA	NA	NA	NA
422	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	1	CA/PA_Sat WMP-28_01	<p>RM-PG&E-23-02</p> <p>Page 35 of PG&E's response states, "PG&E is currently working to integrate OC with our execution processes to ensure quality during initial work execution."</p> <p>(a) Describe how PG&E will integrate OC with execution processes.</p> <p>(b) Describe the OC and QA processes in place at the beginning of 2023 for a detailed distribution inspection. Describe the process from start to finish from any QA activities that occur prior to the inspection, continuing through the inspection, and ending when OC and QA are both complete.</p> <p>(c) Describe the OC and QA processes that PG&E is implementing in which OC will be integrated with execution processes for a detailed distribution inspection. An specified in the previous part, describe the process from start to finish.</p> <p>(d) State the percentage of distribution asset inspections that will undergo the integrated OC process that PG&E is proposing.</p>	<p>(a) OC is integrating with execution processes by completing OC on a shorter timeline than what is currently in place. This includes conducting pre-work inspections, sharing warnings, and making corrections, as necessary. By integrating these processes to work and identify issues, PG&E can ensure that distribution assets work has been recently completed, enabling both more timely corrective actions and additional operational improvements. (b) Integrating the prior inspector back to a field location before the inspector has departed the area.</p> <p>(c) Both in the process that OC and QA follow in 2023:</p> <p>1) System Inspections (SI) execution completes the scheduled distribution asset inspection.</p> <p>2) Completed inspection locations enter the queue of OC eligible locations.</p> <p>3) OC completes their review of the OC-eligible locations through warning and/or field review.</p> <p>4) OC enters any OC failures with the SI execution team.</p> <p>5) OC completed locations are eligible for QA warning.</p> <p>6) WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01 Page 2</p> <p>1) DA performs statistical sampling of OC completed locations per the 50% confidence rate. The impact of error is more detailed in the table below.</p> <p>2) DA auditors perform the field audits as identified during the sampling process.</p> <p>3) DA audits will be reviewed by QA subject matter experts (SME) for accuracy and completeness.</p> <p>4) Once approved by a QA SME, a DA audit location is marked as complete.</p> <p>5) DA enters any findings back into the SI and OC execution team.</p> <p>(d) Please see the responses to subparts (a) and (b) for a description of our OC and QA processes. We intend to further integrate OC with execution, as described in support (a), during the second and third bulks of the processes described in support (b). PG&E is continuing to explore additional opportunities for further integration of our execution and OC functions.</p> <p>RM-PG&E-23-02</p> <p>OC on 30% of all System Inspections following the to-be integrated model within HFTD, bearing 100% liability.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
423	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	2	CA/PA_Sat WMP-28_02	<p>RM-PG&E-23-02</p> <p>Page 35 of PG&E's response states, "PG&E is currently working to integrate OC with our execution processes to ensure quality during initial work execution."</p> <p>(a) Will PG&E track the quality of asset inspection work under the integrated OC process (which was previously tracked by the OC process)?</p> <p>(b) What metrics or measures will PG&E use to identify a possible downward trend in the quality of asset inspection work?</p>	<p>(a) The quality of asset inspection work is being tracked by using data on OC failures to inform distribution and plans which give priority to opportunities for improvement in related work execution, sharing quality at the source. Where applicable, PG&E will also continue to track OC pass rates as well as the number of OC pass rates.</p> <p>(b) PG&E utilizes pass rates, among other tools, to track its living types which we increased with applications to formalize data points of action. Where applicable, PG&E will also continue to review OC pass rates.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
424	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	3	CA/PA_Sat WMP-28_03	<p>RM-PG&E-23-02</p> <p>Table 7-1 (Revised) on page 35 of PG&E's response states that PG&E will perform field DA audits on 500 transmission locations and 1500 distribution locations.</p> <p>(a) Provide a breakdown of the 500 transmission locations by inspection type. For example, how many of these locations will undergo ground inspections, how many will audit inspection, etc.</p> <p>(b) Provide a breakdown of the 1500 distribution locations by inspection type. For example, how many of these locations will undergo ground inspections, how many will audit inspection, etc.</p>	<p>(a) At all DA audit locations, we received from completed OC ground and desktop locations. Both ground and desktop OC locations have an audit tool system breakdown of approving the DA warnings. Both the random nature of the sampling is not possible to determine in advance the quantity of each inspection type which may occur in a given location. (b) Please see the responses to subpart (a) for an expansion of our distribution location locations are accurate. The process is the same for distribution locations as for transmission locations.</p> <p>(c) 100% of Audit Pass Results 100% of 70 Pass Results 100% of 75/2023 OC Complete Quantities of 75/2023 OC Complete of System Complete of 75/2023 Transmission Pass Rate of 100% 92.15, 98.7%, 22,820, 91.44% Distribution Pass Rate of 92.15, 98.7%, 22,820, 91.44% Outages 85.2%, 94.2%, 21,000, 41.5%</p> <p>(d) Our improved pass rates are the result of the continued investments our teams have made since Energy Safety issued the 2022 Revision Notice and we have continued to work on the 2022 and 2023 WMP. Specifically, the system inspections and OC organizations have weekly collaboration sessions to explore improvement options, identify gaps in our processes, address challenges, and review risks. Furthermore, in addition to the internal improvements we have made, as of July 10, 2023, we have created 74 additional PG&E compliance inspector positions across our service territory, as well as six supervisor positions inspector positions across the entire territory.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
425	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	4	CA/PA_Sat WMP-28_04	<p>RM-PG&E-23-02</p> <p>Table RM-PG&E-23-02-1 on page 36 of PG&E's response shows higher OC pass rates in 2023 (as of July 25, 2023) than in 2022.</p> <p>(a) For each of the four OC categories displayed in Table RM-PG&E-23-02-1, provide the sample size (as both a count and percentage of total) for the OC category in 2023 as of July 25, 2023.</p> <p>(b) List all factors to which PG&E attributes the improved OC pass rates. This may include changes in inspection programs, changes to training, changes to the OC process, different personnel/employees, etc.</p>	<p>(a) For each of the four OC categories displayed in Table RM-PG&E-23-02-1, provide the sample size (as both a count and percentage of total) for the OC category in 2023 as of July 25, 2023.</p> <p>(b) List all factors to which PG&E attributes the improved OC pass rates. This may include changes in inspection programs, changes to training, changes to the OC process, different personnel/employees, etc.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
426	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	5	CA/PA_Sat WMP-28_05	<p>RM-PG&E-23-02</p> <p>Page 2 of PG&E's response states, "By being flexible with how we deploy our quality management resources, we can mitigate \$20 million in annual costs to our customers in 2023 and our active, comparable quality performance results."</p> <p>(a) State the basis for PG&E's estimate that its proposed OC process will mitigate \$20 million in annual costs to customers.</p> <p>(b) State the basis for PG&E's statement that its proposed OC process will achieve comparable quality performance results.</p> <p>(c) Provide the results PG&E will use to track and compare the quality performance between its proposed OC process and the OC process in place at the beginning of 2023.</p>	<p>(a) By reallocating Quality Control labor to the work and enabling asset inspection personnel to address and mitigate issues faster, we expect that less scheduled operations of locations through OC will need to occur and issues will be identified up front. This \$20 million efficiency is forecast based on the savings we anticipate through needing to sample less locations, and improvements to the quality of work up front which will create a reduction in work and OC costs.</p> <p>(b) Please see the responses to subpart (a) above for an explanation as to how our new OC process will improve our overall, or proposed, quality performance results. Please also see our response to Question 4(b) of this data request for additional information regarding how we are improving our OC pass rates.</p> <p>(c) Quality is being tracked by using data on OC failures to inform distribution and other which give priority to opportunities for improvement in related work execution, sharing quality at the source. Where applicable, PG&E will also continue to track OC pass rates as well as the number of OC pass rates. PG&E will continue to track OC pass rates, among other tools, to track its living types which we increased with applications to formalize data points of action. Where applicable, PG&E will also continue to review OC pass rates.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
427	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	6	CA/PA_Sat WMP-28_06	<p>RM-PG&E-23-02</p> <p>Table 8-15 (Revised) on page 37 of PG&E's response states that "2,816 distribution locations underwent field DA audits in 2022, and 2,300 distribution locations in the HFTD will undergo field DA audits in 2023."</p> <p>(a) How does the representative size that PG&E's overhead distribution lines in the HFTD (per Table 5-2 in PG&E's 2023-2025 WMP) please explain why the proposed audit sample size in 2023 is approximately one-third of the actual audit sample size in 2022?</p>	<p>The locations that underwent O/V/CA audits in 2022 were not solely focused on HFTD. In addition, the ability to inspect between HFTD and non-HFTD, the various 154 programs that were reviewed on distribution (line inspection, sector points, etc.), was limited in 2022. This means that the identified number of 2023 O/V/CA audits is not directly comparable to the planned 2023 sample audits.</p> <p>Given the implementation of the Quality Management System (QMS) in the first months of 2023, and the statistically valid CA sampling methodology, PG&E is focusing quality control on all audited locations within the scope of the business.</p> <p>PG&E has not conducted a specific analysis relative to drivers of extended outages between EPSS and Non-EPSS audited lines.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Quality Assurance and Quality Control	NA
428	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	7	CA/PA_Sat WMP-28_07	<p>RM-PG&E-23-03</p> <p>Page 41 of PG&E's response states, "The likelihood of experiencing an extended outage (i.e., an outage of 12 hours or more) on EPSS audited lines was 20% lower than for PG&E outages in 2022, and for Medical Base area a statistically significant 13% lower than for all PG&E outages in 2022."</p> <p>(a) How PG&E conducted a study or analysis of why the likelihood of experiencing an extended outage on EPSS audited lines was 20% lower than for all PG&E outages in 2022?</p> <p>(b) For the answer to part (a) in (c), please provide the results of the study or analysis.</p> <p>(c) For PG&E's 2023-2025 WMP, PG&E responds to most outages on EPSS audited lines within 60 minutes. Describe the extent to which the expedited response time contributes to the likelihood of experiencing an extended outage on EPSS audited lines being 20% lower than for all PG&E outages in 2022.</p>	<p>(a) NA.</p> <p>(b) On the elevated wildfire risk associated with EPSS environment, PG&E prioritizes response procedures to EPSS outages by dispatching the closest available qualified resources to the location of the outage within 60 minutes. While this procedure is first intended to ensure no potential options have occurred, it also contributes to fewer extended outages on EPSS audited lines. PG&E also qualified personnel on-site and are capable of isolating transmission parcels, perform damage assessment, and are able to place or remove equipment in order to isolate electric assets. In addition, the comparison to Non-EPSS outages in 2022 include outages occurring during major storm events, where response and restoration often are delayed due to safety issues to crews and the public, storm related environmental hazards, and access issues, as well as requiring extensive repair to damaged infrastructure that are typically associated with major storm events.</p> <p>(c) The need for the non-EPSS outages was the mitigation we will apply to the full of this WMP cycle to each circuit segment. The mitigations we are proposing for each circuit segment are as seen in Attachment 2323-04 9E_PGE_2023_WMP_R2_Section 4.2_A3n01, submitted with the WMP on April 10, 2023. Attachment "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01" shows that we may have had the potential for reduction by the end of the WMP cycle and we may have had the potential for reduction by the end of the WMP cycle. The Top Risk table, Cell P1118) Since filing the WMP, we have been reviewing the results of our study or analysis of the average number of days that notifications are originally submitted. This may enable us to achieve approximately 94 percent risk reduction by the end of 2023, above Cell P1118.</p> <p>(d) Please see "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01" and the Top Risk Table, Table 11.1751.1-2023.</p> <p>(e) The contribution of permanent risk reduction is approximately 25 percent of the 94 percent risk reduction and the contribution from Operational Mitigation is approximately 77 percent of the 94 percent risk reduction by the end of the WMP cycle.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Grid Operations and Procedures	NA
429	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	8	CA/PA_Sat WMP-28_08	<p>RM-PG&E-23-03</p> <p>Page 44 of PG&E's response states, "PG&E estimates that by the end of this WMP cycle, we will reduce wildfire risk in the HFTD HFA by 94 percent."</p> <p>(a) How does PG&E estimate that by the end of this WMP cycle, we will reduce wildfire risk in the HFTD HFA by 94 percent?</p> <p>(b) Please describe the methodology you used to estimate that, by the end of this WMP cycle, PG&E will have reduced wildfire risk in the HFTD HFA by 94 percent.</p> <p>(c) Please describe the methodology you used to estimate that, by the end of this WMP cycle, PG&E will have reduced wildfire risk in the HFTD HFA by 94 percent.</p>	<p>(a) The need for the non-EPSS outages was the mitigation we will apply to the full of this WMP cycle to each circuit segment. The mitigations we are proposing for each circuit segment are as seen in Attachment 2323-04 9E_PGE_2023_WMP_R2_Section 4.2_A3n01, submitted with the WMP on April 10, 2023. Attachment "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01" shows that we may have had the potential for reduction by the end of the WMP cycle and we may have had the potential for reduction by the end of the WMP cycle. The Top Risk table, Cell P1118) Since filing the WMP, we have been reviewing the results of our study or analysis of the average number of days that notifications are originally submitted. This may enable us to achieve approximately 94 percent risk reduction by the end of 2023, above Cell P1118.</p> <p>(b) Please see "WMP Document 2022_DR_C&A/OC/OCES-02-000/AH01" and the Top Risk Table, Table 11.1751.1-2023.</p> <p>(c) The contribution of permanent risk reduction is approximately 25 percent of the 94 percent risk reduction and the contribution from Operational Mitigation is approximately 77 percent of the 94 percent risk reduction by the end of the WMP cycle.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	1	NA	8.1.6	Grid Operations and Procedures	NA
430	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	9	CA/PA_Sat WMP-28_09	<p>RM-PG&E-23-04</p> <p>Page 55 of PG&E's response states, "Instead, we will eliminate the entire HFTD maintenance lag backlog by 2023."</p> <p>(a) In the above statement intended to the HFTD maintenance backlog, or the HFTD-HFA maintenance backlog, what does the term "entire" mean?</p> <p>(b) If the answer to part (a) in (c), please provide the results of the study or analysis.</p> <p>(c) Does PG&E plan for addressing maintenance lag backlogs differently between lags in HFTD and lags in HFA?</p>	<p>(a) The above statement refers to the maintenance backlog in HFTD/HFA locations. It does not refer to the maintenance backlog in HFTD/HFA locations. (b) No, our plan does not differentiate between addressing the maintenance lag backlog in HFTD and HFA locations, as it is a related based on risk reduction and efficiency.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Grid Operations and Procedures	NA
431	CA/PA	Set WMP-28	CA/PA_Sat WMP-28	10	CA/PA_Sat WMP-28_10	<p>RM-PG&E-23-04</p> <p>Figure RM-PG&E-23-04-1 on page 46 of PG&E's response states that, under PG&E's proposed plan to address maintenance lags, the average open notification age will remain at or under five years. Under PG&E's previously proposed plan, the average open notification age would reach 4.5 years.</p> <p>(a) How does PG&E estimate that, by the end of this WMP cycle, the average number of days that notifications are originally submitted will be reduced by 4.5 years?</p> <p>(b) How does PG&E estimate that, by the end of this WMP cycle, the average number of days that notifications are originally submitted will be reduced by 4.5 years?</p>	<p>(a) No, we have not performed a study or analysis with the specific metrics referenced in the table below. We have not performed a study or analysis with the specific metrics referenced in the table below. We have not performed a study or analysis with the specific metrics referenced in the table below. We have not performed a study or analysis with the specific metrics referenced in the table below.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	https://www.pge.com/buy_pghd/commen/oc/es/turn/turn-oc-2022-annual-electric-reliability-report	0	NA	8.1.6	Grid Operations and Procedures	NA

432	CaPA	Set WMP-28	CaPA_Sat WMP-28	11	CaPA_Sat WMP-28_011	<p>RN-POGE-23-04 Footnote 16 on page 52 of POGE's response states, "POGE will develop a risk speed efficiency by isolation zone bands and not for individual tags. We will identify grouping of EC notification in isolation zone (similar to a circuit protection zone) and sum the wildlife risk of those notifications. That sum will be divided by the sum of the average cost of those same notifications to get a risk speed efficiency for isolation zone bands." a) How will POGE determine the wildlife risk of individual notifications? b) How will POGE determine the unit cost of individual notifications?</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
433	CaPA	Set WMP-28	CaPA_Sat WMP-28	12	CaPA_Sat WMP-28_012	<p>RN-POGE-23-04 POGE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 52). a) Is an isolation zone identical to a circuit protection zone? b) If the answer to part (a) is no, describe the differences.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
434	CaPA	Set WMP-28	CaPA_Sat WMP-28	13	CaPA_Sat WMP-28_013	<p>RN-POGE-23-04 Page 55 of POGE's response states, with regard to field safety assessments, "inspections can also recommend that a notification be cancelled if no failure is ever created in or it is already completely cancelled." a) Describe the process by which an inspector performing a field safety assessment can recommend a notification be cancelled. b) If an inspector performing a field safety assessment recommends that a notification be cancelled, do any additional checks or verifications take place prior to cancelling the notification? c) If the answer to part (b) is no, describe each additional check or verification. d) If the answer to part (b) is no, explain why not.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
435	CaPA	Set WMP-28	CaPA_Sat WMP-28	14	CaPA_Sat WMP-28_014	<p>RN-POGE-23-04 Table RN-POGE-23-04-6 on page 59 of POGE's response estimates POGE will create 10,200 level two tags in 2024, 54,000 level two tags in 2024, and 50,700 level two tags in 2025. a) How many tags for the reduced number of level 2 tags POGE forecasts being created in 2024 and 2025 compared to 2023.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
436	CaPA	Set WMP-28	CaPA_Sat WMP-28	15	CaPA_Sat WMP-28_015	<p>RN-POGE-23-04 Page 55 of POGE's response states, "For example, we have found certain violations (i.e., violations within two feet of an insulator, and number of violations per year) do not pose an increased risk of ignition. Instead of issuing non-ignition risk improvement tags, the actions are better addressed by the asset management team as they are a potential indicator of a holistic asset health issue." a) Describe how the asset management team will track if a maintenance tag is not issued. b) Describe the circumstances under which POGE would repair violations that do not pose an ignition risk, and describe an outline for a maintenance tag. c) How does POGE's asset management team use actions as an indicator of "holistic asset health" and under what circumstances does the asset management team take action based on this indicator?</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
437	CaPA	Set WMP-28	CaPA_Sat WMP-28	16	CaPA_Sat WMP-28_016	<p>RN-POGE-23-05 Page 68 of POGE's response states, "There are 79 circuit segments that are not included in an underground plan and have not been hardened by 2025. These circuit segments, POGE chose to add different circuit segments to the portfolio that could be undergrounded more affordably. POGE manages wildlife risk in these 79 circuit segments through a portfolio of Comprehensive Monitoring and Data Collection and Operational Responses described above." a) How will POGE conduct overhead hardening on the 79 circuit segments described in the answer? b) If the answer to part (a) is yes, why did POGE not take overhead hardening as a mitigation for these 79 circuit segments? c) If the answer to part (a) is no, explain why not.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
438	CaPA	Set WMP-28	CaPA_Sat WMP-28	17	CaPA_Sat WMP-28_017	<p>RN-POGE-23-05 Table RN-POGE-23-05-2 on page 72 of POGE's response compares the mileage in the top 20% of WFF, the top 20% of WDRM, and the top 20% of WDRM-C. a) How does POGE calculate the risk scores from WDRM-C and the feasibility score of undergrounding in WDRM-C? b) How does POGE calculate the risk scores from WDRM-C and the feasibility score of undergrounding in WDRM-C? c) Does the list of circuit segments marked by WFF incorporate risk scores from WDRM-C? If yes, describe how.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
439	CaPA	Set WMP-28	CaPA_Sat WMP-28	18	CaPA_Sat WMP-28_018	<p>RN-POGE-23-05 Page 72 of POGE's response states, "Based on further evaluation, the preliminary updated mitigation effectiveness for undergrounding, considering the residual risk from secondary and service lines, is approximately 97 percent compared to the 99 percent." a) Describe how POGE calculated the effectiveness of 97 percent. b) Provide supporting data and worksheets for your response to part (a).</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	1	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
440	CaPA	Set WMP-28	CaPA_Sat WMP-28	19	CaPA_Sat WMP-28_019	<p>RN-POGE-23-07 Page 103 of POGE's response states, "The TAT was developed to fit the scope of the EIM program. With the introduction of EIM, POGE has decided to compare the use of the TAT and the ISA TRAQ with various accepted assessments using the ISA TRAQ for the scope of FIT to be similar to the scope of EIM (approximately 1,800 miles). Please explain why the TAT is not appropriate for the scope of FIT." a) Describe the ways in which the TAT and TRAQ form are similar. b) Describe the ways in which the TAT and TRAQ form are different.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	2	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
441	CaPA	Set WMP-28	CaPA_Sat WMP-28	20	CaPA_Sat WMP-28_020	<p>RN-POGE-23-07 Page 104 of POGE's response states, "Given that we began working with the ISA TRAQ in 2023, data does not exist to quantify compare effectiveness effectiveness between ISA TRAQ and TAT." a) Does POGE plan to perform a study or analysis to compare the effectiveness of the TAT and the ISA TRAQ? b) If the answer to part (a) is yes, please describe the study POGE plans to perform, and the date POGE plans to complete the study. c) If the answer to part (a) is no, please explain why not.</p>	Holy Wellman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
442	OEIS	011	OEIS_011	1	OEIS_011_01	<p>Regarding distribution-related ground inspections a) On page 464 of the revised WMP, POGE states that it will shift from inspecting all HFD for 2 distribution assets annually and for 2 assets every three years, to inspecting severe and extreme consequence area assets annually and high-risk assets every three years. b) Please provide the number of assets/structures using the same asset/structure definition as WMP R2 table 8.1.3.3, page 460) instead of HFD for 2. c) Please provide the number of assets/structures using the same asset/structure definition as WMP R2 table 8.1.3.3, page 460) instead of HFD for 2.</p>	Dakota Smith	8/10/2023	8/23/2023	8/23/2023	0	NA	8.1.3.1	Asset Inspections	Distal Ground Inspection
443	OEIS	011	OEIS_011	2	OEIS_011_02	<p>Regarding POGE's Design and Maintenance Quality Control: a) In its Revision Notice, Response, POGE states that it is "working to integrate OC with the asset/structure process, the approach will include reviewing, inspecting, and making corrections, and that routine sample sites and checks will be used to monitor POGE's quality." (Page 55) b) Describe the process by which POGE will integrate OC with the current and previous approaches to OC. c) Provide the estimated sample size for this approach. These sample sizes may either represent physical assets POGE will OC per part (a), POGE will OC 3,000 structures in asset area of the WMP project, or how POGE determines the sample size for OC (i.e., the criteria for when and where POGE performs OC). d) Describe the implementation timeline POGE has established for this approach and any supporting data.</p>	Dakota Smith	8/10/2023	8/23/2023	8/23/2023	0	NA	8.1.6	Quality Assurance and Quality Control	NA

465	CaPA	Set WMP-30	CaPA_Set WMP-30	4	CaPA_Set WMP-30_04	The following questions refer to the risk scores generated from WDRM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above. Please provide a GDS file that details the risk scores at the same granularity that is currently used to inform wildfire mitigation measures (as discussed in questions 1(f) and 2(f)). This file should contain the following: (a) Geometric features detailing the relevant geometry for each risk score. (b) "Points" data that depict circuit segments, poles, and other geometry that best suits the relevant scenario. If multiple risk scores are generated (e.g., PG&E includes both the risk scores from physical measurements at the circuit segment level), there is no need to include multiple layers that depict the same physical measurements at the same level of detail. (c) For each geometric feature, please include all relevant risk scores from questions 1(a) and 2(a) as attributes. If for each geometric feature, include the circuit segment name as an attribute. (d) For each geometric feature, include the circuit name as an attribute. (e) For each geometric feature, include the circuit segment name as an attribute. (f) If needed, include unique identifiers for each geometric feature (e.g., asset ID, substation name, etc.)	(k)-(l) As stated in the response to Questions 001 - 003, the WDRM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.	Holly Wetman	10/11/2023	10/26/2023	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	The following questions refer to the risk scores generated from WDRM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above. Please provide a spreadsheet that lists (a) rows) each circuit segment that is included in the Wildfire Distribution Risk Model v4. This spreadsheet should include, at a minimum, the following columns: (a) Name of 10 number of each circuit segment (b) Name of the circuit that each segment is part of. (c) Circuit ID for the circuit that each segment is part of. (d) Nominal voltage. (e) The point count of the circuit segment. (Cal Advocates understands this to be the number of 100m x 100m pixels captured by the WDRM v4 along the length of the circuit segment.) (f) The average risk value(s) associated with each pixel along the circuit segment. (In previous versions of the risk model, this was referred to as the "Mean MVF" or "Mean MVF.") (g) Total circuit miles on the circuit segment. (h) Total Tar 2 overhead circuit-miles on the circuit segment. (i) Total Tar 3 overhead circuit-miles on the circuit segment. (j) Total Tar 2 underground circuit-miles on the circuit segment. (k) Total Tar 3 underground circuit-miles on the circuit segment. (l) Each risk score from a response and related column identified in question 1(f) that is used at the circuit-segment level to inform wildfire mitigation measures. (May require multiple columns.) (m) Any other risk scores used in WDRM v4 (not included in the spreadsheet) identified in question 2(a) that is used at the circuit-segment level to inform wildfire mitigation measures. (May require multiple columns.)	(k)-(l) As stated in the response to Questions 001 - 004, the WDRM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.	Holly Wetman	10/11/2023	10/26/2023	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	The following questions refer to the risk scores generated from WDRM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above. Has the E3 or another entity performed an independent review of the WDRM v4? (a) If the answer to part (a) is yes, please provide a copy of any report and/or report from the independent reviewer. (b) 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 WDRM v4? (c) If the answer to part (b) is no, please explain why not. (d) If the answer to part (b) is yes, when does PG&E expect the review to be completed?	(k)-(l) The WDRM v4 is currently under review by E3. PG&E expects that the E3 review will be completed and available with the 2025 WMP Update.	Holly Wetman	10/11/2023	10/26/2023	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	The following questions refer to the risk scores generated from WDRM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above. Has PG&E created a detailed overview document that details the WDRM 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? (a) If the answer to part (a) is yes, please provide a copy of the document. (b) If the answer to part (a) is no, does PG&E plan to create such a document? (c) If the answer to part (c) is no, please explain why not. (d) If the answer to part (c) is yes, when does PG&E expect the document to be completed?	(k)-(l) As stated in the response to Questions 001 - 005, the WDRM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update. PG&E anticipates preparing a similar document as part of the 2025 WMP Update.	Holly Wetman	10/11/2023	10/26/2023	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	The following questions refer to the risk scores generated from WDRM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above. Page 75 of PG&E's 2023-2025 Wildfire Mitigation Plan Supplemental Response to Revision Notice, September 27, 2023 states: "When we begin using the WDRM v4 and incorporating it with the WBCA (Wildfire Benefits Cost Analysis), risk ranking and project prioritization will include wildfire risk reduction, reliability benefits, public safety, and other factors that we will not be able to capture in our current WDRM v4. This will include wildfire risk reduction, reliability benefits, public safety, and other factors that we will not be able to capture in our current WDRM v4." (Emphasis added.) (a) How does the WDRM v4 include an estimation of reliability benefits, as discussed in the above quote? Please explain if possible. (b) How does the WDRM v4 include an estimation of public safety, as discussed in the above quote? Please explain if possible. (c) Does the WDRM v4 include an estimation of project costs, as discussed in the above quote? Please explain if possible.	(k)-(l) The WDRM v4 scope does not include the estimated benefits requested in parts a, b, and c. Reliability benefits, public safety, and project costs will be considered as part of the WBCA and are part of the WDRM v4.	Holly Wetman	10/11/2023	10/26/2023	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	The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders. On page 103 of your 2023 - 2025 WMP R3, PG&E provided a table (Table 8.6-1) showing the total number of past due transmission asset work orders by age and HFTD tier. Please provide an updated version of Table 8.6-1, as of September 30, 2023. Number of Past Due Transmission Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area 91 - 90 Days 91 - 180 Days 181+ Days Non - HFTD HFTD Tier 2 HFTD Tier 3	Please see the table below for the requested information. Number of Past Due Transmission Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area Non - HFTD 91 - 90 Days 91 - 180 Days 181+ Days HFTD Tier 2 145,650 145,650 1,143 HFTD Tier 3 65,548 98,835	Holly Wetman	10/12/2023	10/26/2023	10/25/2023	0	NA	8.1.7	Open Work Orders	NA
474	CaPA	Set WMP-31	CaPA_Set WMP-31	2	CaPA_Set WMP-31_02	The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders. On page 103 of your 2023 - 2025 WMP R3, PG&E provided a table (Table 8.6-1) showing the total number of past due distribution asset work orders by age and HFTD tier. Please provide an updated version of Table 8.6-1, as of September 30, 2023. Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area 91 - 90 Days 91 - 180 Days 181+ Days Non - HFTD HFTD Tier 2	Please see the table below for the requested information. Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area Non - HFTD 91 - 90 Days 91 - 180 Days 181+ Days HFTD Tier 2 1,191 1,429 23,605 60,512 HFTD Tier 3 239 269 847 60,307	Holly Wetman	10/12/2023	10/26/2023	10/25/2023	0	NA	8.1.7	Open Work Orders	NA
475	CaPA	Set WMP-31	CaPA_Set WMP-31	3	CaPA_Set WMP-31_03	The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders. On page 103 of your 2023 - 2025 WMP R3, PG&E stated with regard to distribution asset work orders: "PG&E is in the process of updating the number of past due asset work orders, categorized by age, in the HFTD from 01/2024 through 01/2025." (a) Please list the reasons why PG&E was unable to provide the number of past due asset work orders, categorized by age, in the HFTD as stated above. (b) Please list any steps PG&E has taken to improve its ability to provide the number of past due asset work orders, categorized by age, in the HFTD.	(a) At the time of filing the 2023 - 2025 WMP, PG&E did not have the capability to extract the data at the granularity requested. Therefore, PG&E was unable to provide the number of past due asset work orders, categorized by age, in the HFTD. PG&E is currently working on the capability to extract the data at the granularity requested. PG&E is currently working on the capability to extract the data at the granularity requested. PG&E is currently working on the capability to extract the data at the granularity requested.	Holly Wetman	10/12/2023	10/26/2023	10/25/2023	0	NA	8.1.7	Open Work Orders	NA
476	CaPA	Set WMP-31	CaPA_Set WMP-31	4	CaPA_Set WMP-31_04	The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders - Distribution Tags in PG&E's 2023 - 2025 WMP R3 discuss a subset of open work orders referred to as "ignition-tag" tags. Please provide a table similar to Table 8.8-1 for all past due ignition-tag, distribution asset work orders by age and HFTD tier, as of September 30, 2023. Number of "Ignition Risk" Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area 91 - 90 Days 91 - 180 Days 181+ Days Non - HFTD HFTD Tier 2	Please see the table below for the requested information. Number of "Ignition Risk" Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023) HFTD Area Non - HFTD 91 - 90 Days 91 - 180 Days 181+ Days HFTD Tier 2 1,191 1,429 23,605 60,512 HFTD Tier 3 146 193 616 107	Holly Wetman	10/12/2023	10/26/2023	10/25/2023	0	NA	8.1.7	Open Work Orders	NA
477	CPUC - SPD (Safety Policy Division)	011	CPUC - SPD (Safety Policy Division)_011	1	CPUC - SPD (Safety Policy Division)_011_01	Please calculate and justify Table 8A-1 in PG&E's 2023-2025 Wildfire Mitigation Plan (WMP) Supplemental Response to Revision Notice. In Critical Issues R3-PG&E-23-05, PG&E explained that in response to the Commission decision in the Risk-Based Decision-Making Framework (R3) (R3P/09)1 we are in the process of conducting a benefit-cost model. The model will incorporate an assessment of the mitigation action decision-making process into an analytical model. R3P-05 calls the Wildfire Benefits Cost Analysis (WBCA) tool. In R3P-05 PG&E provided an example of the output from the WBCA model for an emergency maintenance scenario. Table 8A-1 in PG&E's 23-05 PG&E responded to an Energy Safety Data Request asking for more information about the WBCA tool that PG&E submitted to the WBCA. PG&E has not been fully developed, approved, or implemented within PG&E. PG&E explained that the WBCA tool submitted to the 2023-2025 WMP is based on PG&E's Wildfire Distribution Risk Model (WDRM) and none of the 2023-2025 projects included in the WMP model were being valued by the WBCA. The WBCA is being developed to support PG&E's 10-year (SB 84) understanding when we are implementing the WBCA for all substations in PG&E. We are currently evaluating using the WBCA to inform project selection for PG&E's long-term infrastructure planning and future WMPs. Because the WBCA is still in development, PG&E is not in position to respond to either the requests in the table above.	(a) As stated in the response to Questions 001 - 005, the WDRM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.	Henry Dowd	10/12/2023	10/17/2023	10/17/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment

477	CPUC - SPD (Safety Policy Division)	012	CPUC - SPD (Safety Policy Division)_012	1	CPUC - SPD (Safety Policy Division)_012_01	Please calculations that justify Table RN-PG&E-23-05-3. Explain specifically how Risk Avoidance over Lifetime Benefit is calculated from Total Risk. (page 8) of PG&E's 2023-2025 Wildlife Mitigation Plan (WMP) - Supplemental Response Notes Responses)	Please see "WMP-Discovery2023_DR_SPD_012-001(Ash01) Ask" for the visual and supporting data. This table has not been updated because PG&E expects to provide a final I&D in Q2 of 2024 as part of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment.	Henry Swast	11/30/2023	11/15/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-SPD-012-012-001(Ash01)Ask	1	NA	8.1.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
478	CPUC - SPD (Safety Policy Division)	011	CPUC - SPD (Safety Policy Division)_011	2	CPUC - SPD (Safety Policy Division)_011_02	Please a numerical justification that shows the risk from (outages or other sources) for EPSS compared to benefits of EPSS loss without, others? SPD would prefer the analysis performed using cost benefit ratios (similar to that shown in Table RN-PG&E-23-05-3).	Please see PG&E's response to Question 1 of this data request.	Henry Swast	10/13/2023	10/17/2023	10/17/2023	https://www.psc.state.ny.us/CPUC/CPUC-SPD-011-02	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
479	CaPA	Set WMP-32	CaPA_Set WMP-32	1	CaPA_Set WMP-32_01	Please provide the following data for the years 2020, 2021, 2022, and 2023: a) Number of miles of underground distribution that PG&E installed as part of overhead-to-underground conversion projects for the purposes of wildfire risk reduction. b) Number of miles of overhead distribution PG&E removed as part of the same projects in part (a).	Please see the table below with the dates requested for subparts a and b. a) Please see row (a) UG Miles Completed. Included are the miles of underground conversion distribution lines installed each year 2020-2023 for the purposes of wildfire risk reduction. The data provided is 2023 to date through November 1, 2023. In addition to the miles completed, PG&E also has approximately 200 miles currently in progress (i.e., permit complete, in construction, branch complete, contact installed, ready for cable pull). b) Please see row (b) OH Miles Removed. Included are the estimated miles of overhead primary distribution lines PG&E has removed as part of undergrounding projects for the purpose of wildfire risk reduction. PG&E historically did not track exactly the overhead miles replaced by each project. Therefore, the overhead miles replaced is calculated based on UG Miles Completed using a standard conversion factor for rebuild projects or all other undergrounding projects. For Community rebuild projects (State and General) for every 1.25 miles of UG installed, one mile of existing OH has been removed. For all other projects, 1.25 miles of UG installed equates to one mile of existing OH removed. 2020 2021 2022 2023 Total a) UG Miles Completed 42.4 73.2 179.8 208.6 503.9 b) OH Miles Replaced (est) 22.9 32.2 144.0 374.4	Holly Wetman	10/31/2023	11/14/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-01	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Projected Overall Risk Reduction
480	CaPA	Set WMP-32	CaPA_Set WMP-32	2	CaPA_Set WMP-32_02	Please provide the same information as requested in Question 1 for undergrounding projects that fall into each of the following categories: a) Rule 20 undergrounding. b) Wildlife rebuild undergrounding. c) Any other undergrounding not included in Question 1 part a and b of this question.	Please see the table provided below with the data requested for subparts a-c. a) Please see row (a) Rule 20. Included are the undergrounding miles of primary distribution lines in High Fire Threat Districts (PFTD) and/or High Fire Risk Areas (HFRA) as part of the following projects: Rule 20A - 100% utility funding Rule 20B - partial utility funding Rule 20C - minimal utility funding Note: the data does not include all Rule 20 projects. Includes only those Rule 20 projects that have taken place in the PFTD/HFRA given the impact of these projects on existing wildfire risk. b) Please see row (b) Wildlife Rebuild. Included are the undergrounding miles of primary distribution lines in High Fire Threat Districts (PFTD) and/or High Fire Risk Areas (HFRA) as well as the Community Rebuild Program that are located in an PFTD/HFRA, as well as the Community Rebuild Program (i.e., State and General). c) Please see row (c) Other. Included are the undergrounding miles of primary distribution lines through PG&E's targeted undergrounding projects, as well as capacity projects and work requested by others located in an PFTD/HFRA. Please note, PG&E previously did not track overhead miles replaced; therefore, the overhead miles replaced is calculated based on UG Miles Completed using a standard conversion factor for rebuild projects or all other undergrounding projects. For WMP-Discovery2023_DR_CaPA/Avocades_032-Q002 Page 2 Community rebuild projects (State and General) for every 1.25 miles of UG installed, one mile of existing OH has been removed. For all other projects, 1.25 miles of UG installed equates to one mile of existing OH removed.	Holly Wetman	10/31/2023	11/14/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-02	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
481	CaPA	Set WMP-32	CaPA_Set WMP-32	3	CaPA_Set WMP-32_03	Please provide copies of all current, sub-awards contracts PG&E has executed with other entities with regard to any of the following: a) Copies of materials related to distribution undergrounding projects. b) Entities who assist PG&E with planning, permitting, environmental review, and other similar non-construction related to distribution undergrounding projects. c) Any other entities who provide goods or services to PG&E in relation to distribution undergrounding projects.	The attachments to the response contain CONFIDENTIAL information and are being provided pursuant to the accuracy/confidentiality declaration "WMP-Discovery2023_DR_CaPA/Avocades_032-Q003 - Confidentiality Declaration." PG&E does not have a sub-award contract process that mirrors state and federal sub-award contracting law. Instead, PG&E has a direct award process that documents contracts that are awarded over certain dollar thresholds to suppliers that are not responses. PG&E currently uses a Direct Award Documentation (DAD) form to document our direct awards. PG&E identified two direct award contracts that we have executed with entities providing goods and/or services related to system hardening distribution undergrounding projects. The population of contracts PG&E reviewed included contracts for the period ending in 2022 and 2023 and where the total contract spend during that period was greater than \$100,000. 1) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003A1ANCOE.pdf 2) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003B1ANCOE.pdf 3) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003A2ANCOE.pdf 4) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003B2ANCOE.pdf 5) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003A3ANCOE.pdf 6) WMP-Discovery2023_DR_CaPA/Avocades_032-Q003B3ANCOE.pdf Attachments 01-03 are the Direct Award Documentation and Contract, including Contract Change Order for the first vendor who received a direct award contract. Attachments 04-05 are the Direct Award Documentation and Contract for the second vendor who received a direct award contract. a) See response to part a. b) See response to part a. c) See response to part a.	Holly Wetman	10/31/2023	12/1/2023	12/1/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-03	5	NA	8.1.2	Grid Design, Operations, and Maintenance	Grid Design and System Hardening
482	CaPA	Set WMP-32	CaPA_Set WMP-32	4	CaPA_Set WMP-32_04	Describe all vegetation management activities that PG&E typically performs around the following line types: a) Aboveground distribution mains located in PFTD/HFRA. b) Aboveground distribution services located in PFTD/HFRA. c) Aboveground distribution services located in HFRA. d) Right-of-way for underground distribution located in PFTD/HFRA.	a) We review the question to address Primary Distribution voltages 4KV, 12KV, 17KV and 24KV. The following programs target work on OH facilities: 1. Annual Routine Tree Inspection (system-wide at all the miles), resulting pruning and tree removal. 2. Pruning to maintain 18 inches of overhead clearance inside PFTD and HFRA. 3. Pruning to maintain 4 feet of overhead clearance inside PFTD and HFRA and pruning to maintain 4 feet of clearance inside SRA during incipient fire season. 4. Maintenance of Overhang removal in EVM circuit segments completed 01/1/2022 5. Migration up to complete tree removal for hazardous tree conditions identified during tree inspections or through PG&E's attention by other inspection programs, customer, or agency notification. b) Second Phase Tree Inspection in PFTD and HFRA, resulting pruning and tree removal. 6. Second inspections approximately 6 months after Annual Routine Inspections to identify emerging hazardous tree conditions. WMP-Discovery2023_DR_CaPA/Avocades_032-Q004 Page 2 7. Tree Monthly 8. Photo Tree work based on local tree specific conditions. c) Address tree responses (growth) that annual pruning currently mitigates to maintain compliance with Minimum Distance Requirements. d) Vegetation Control (firebreak maintenance) in SRA/HFRA and HFRA 9. All poles supporting equipment not specifically exempted by 14 CCR 150.1 10. Additional tree work in PFTD and HFRA supporting the same equipment requiring firebreak in SRA and HFRA 11. Trees that are all maintained and evaluated for risk 12. Low risk poles are not maintained unless conditions change a) See response to part a. b) See response to part a.	Holly Wetman	10/31/2023	11/14/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-04	0	NA	8.2	Vegetation Management and Inspections	NA
483	CaPA	Set WMP-32	CaPA_Set WMP-32	5	CaPA_Set WMP-32_05	Please estimate the typical, annual cost per mile of vegetation management activities that PG&E performs around the following line types: a) Aboveground distribution mains located in PFTD/HFRA. b) Aboveground distribution services located in PFTD/HFRA. c) Aboveground distribution services located in HFRA. d) Right-of-way for underground distribution located in PFTD/HFRA.	1) PG&E has both the Routine and Second Phase tree inspection programs for every mile of overhead distribution lines. 2) WMP Distribution programs based on 2022 annual spend and 2022 actual miles. 3) PG&E tracks costs for the entire VM program and does not track these numbers by Non-PFTD versus PFTD/HFRA, etc. 4) Please note that annual cost per mile are currently available for TR, FTL and VM/M as these programs were re-audited in 2023. Program Cost Per Mile Routine \$8,055 based on 2022 Second Phase \$2,161 based on 2022 FTL Unavailable VM Unavailable 5) VM activities on aboveground distribution services occur simultaneously with the activities completed for distribution mains. Please see table in part "A" for the average cost per mile for VM activities completed within the Routine and Second Phase program. WMP-Discovery2023_DR_CaPA/Avocades_032-Q005 Page 2 6) Please see table in part "A" for any costs associated with VM activities in PFTD/HFRA. 7) Not applicable as VM does not include inspections on right-of-way (ROW) for underground distribution lines.	Holly Wetman	10/31/2023	11/14/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-05	5	NA	8.2	Vegetation Management and Inspections	NA
484	CaPA	Set WMP-32	CaPA_Set WMP-32	6	CaPA_Set WMP-32_06	Can Avocades understand that, in every project to replace overhead line distribution with covered conductor, PG&E performs pole loading calculations for every pole in the project. All the above characterization correct? Please elaborate if incorrect. b) PG&E has a threshold safety factor for their steel from a pole loading calculator to which it will replace poles in a project? c) If the answer to part (b) is yes, please describe PG&E's threshold(s). d) If the answer to part (b) is no, please explain how PG&E determines which poles to replace in a project.	1) PG&E does not perform pole loading calculations for every pole when replacing the overhead conductor. 2) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 3) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 4) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 5) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 6) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 7) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 8) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 9) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 10) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 11) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment. 12) PG&E addresses the requirements of General Order (G.O.) Rule 44. In addition, for covered conductor projects, we adhere to our fire area design guidelines, which is detailed in Chapter 15 of the Risk Assessment and Mitigation Phase (RAM-IP) being completed. Please note there are non-response questions in the visual data table. Such the original and corrected visual data labels are provided in the attachment.	Holly Wetman	10/31/2023	11/14/2023	11/14/2023	https://www.psc.state.ny.us/CPUC/CPUC-CaPA-SetWMP32-06	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy

465	CAFA	Sat WMP-32	CAFA_Sat WMP-32_Q7	7	CAFA_Sat WMP-32_Q7	<p>Please provide the results of all pole loading calculations performed as part of all bare-to-covered conductor replacement projects in 2022 and 2023 set by October 1, 2023. The report should contain the following minimum information:</p> <ul style="list-style-type: none"> a) Estimated safety factor before conductor replacement (covered conductor) b) Estimated safety factor after conductor replacement (covered conductor) c) Estimated safety factor for the bare-to-covered conductor replacement (bare-to-covered) d) Whether the pole was actually replaced. <p>Table 8.1.1.2 (page 552)</p> <p>If you have not replaced the pole, please provide the following information:</p> <ol style="list-style-type: none"> 1. Complete 2. Check of Conductor options for the data field are as follows: <ul style="list-style-type: none"> a. A b. B c. C d. Loadcase options for this data field are as follows: <ul style="list-style-type: none"> 1. GO 05 2. NEG e) This information has been included in the attachment, as described in item 1 above. f) PG&E's software process does not include performing a pole loading calculation of the pole in the configuration prior to covered conductor installation. We model the pole with the covered conductor and equipment for the new project and make a determination as to whether the pole is adequately sized to remain in-service. If a pole is not adequately sized to remain in-service, it is replaced. g) PG&E is providing the requested pole loading calculations for the requested date. h) PG&E is providing the requested pole loading calculations for the requested date. i) PG&E is providing the requested pole loading calculations for the requested date. 	Holly Wehman	10/01/2023	1/14/2023	1/14/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy
466	CAFA	Sat WMP-32	CAFA_Sat WMP-32_Q8	8	CAFA_Sat WMP-32_Q8	<p>For each year from 2020 through 2023, please provide pole loading calculations performed as part of all bare-to-covered conductor replacement projects for the requested date.</p> <ul style="list-style-type: none"> a) The full calculation inputs. b) The full calculation outputs. c) Any interpretations associated with the calculation (for example, an engineer's determination that the calculation demonstrates a pole must be replaced). <p>Table 8.1.1.2 (page 552)</p> <p>The following information between the two tables reflects estimated multi-year planning values as compared to the minimum required tags to meet our risk reduction targets. The 40,000 tags represent the minimum required tags to meet our risk reduction targets. The 40,000 tags represent the minimum required tags to meet our risk reduction targets. The 40,000 tags represent the minimum required tags to meet our risk reduction targets.</p>	Holly Wehman	10/01/2023	1/14/2023	1/14/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy
467	OESB	OIS	OESB_OIS_O1	1	OESB_OIS_O1	<p>Regarding completion of 2024/2025 tags, a PG&E 2023-2024 WMP Revision 3, Table 8.1.1.2 (page 552) shows that PG&E expects to close 60,200 loading distribution tags in 2024 and 60,200 loading distribution tags in 2025. PG&E indicates in Table 8.1.1.2 (page 552) that it does not reflect the same expected number of loading tags in 2024 and 2025. Please explain the discrepancy between the 60,200 tags in 2024 and 2025.</p>	Dakota Smith	11/30/2023	11/8/2023	11/8/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	0	NA	8.1.17	Open Work Orders	NA
468	CAFA	Sat WMP-33	CAFA_Sat WMP-33_Q1	1	CAFA_Sat WMP-33_Q1	<p>Please provide an Excel sheet listing (in rows) each asset work order ("tag") that was open as of June 30, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns:</p> <ul style="list-style-type: none"> a) Work order ID number b) Equipment type c) Asset type: Distribution or transmission d) GO 35 Rule: 30 priority level of the tag (1=Highly-specific priority level (A or B)) e) Date the tag was originally created f) Date date of the original work order g) Most recent date the work order was resubmitted or modified (if applicable) h) Date date of the work order after it was resubmitted or modified (if applicable) i) Date the work order was completed or closed, if any. 	Aaron Locke	11/9/2023	11/08/2023	11/08/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	8.1.17	Open Work Orders	NA
469	CAFA	Sat WMP-33	CAFA_Sat WMP-33_Q2	2	CAFA_Sat WMP-33_Q2	<p>Please provide an Excel sheet listing (in rows) each asset work order ("tag") that was open as of September 25, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns:</p> <ul style="list-style-type: none"> a) Work order ID number b) Equipment type c) Asset type: Distribution or transmission d) GO 35 Rule: 30 priority level of the tag (1=Highly-specific priority level (A or B)) e) Date the tag was originally created f) Date date of the original work order g) Most recent date the work order was resubmitted or modified (if applicable) h) Date date of the work order after it was resubmitted or modified (if applicable) i) Date the work order was completed or closed, if any. 	Aaron Locke	11/9/2023	11/08/2023	11/08/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	8.1.17	Open Work Orders	NA
490	CAFA	Sat WMP-33	CAFA_Sat WMP-33_Q3	3	CAFA_Sat WMP-33_Q3	<p>Please provide an Excel sheet listing (in rows) each asset work order ("tag") that was open as of November 30, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns:</p> <ul style="list-style-type: none"> a) Work order ID number b) Equipment type c) Asset type: Distribution or transmission d) GO 35 Rule: 30 priority level of the tag (1=Highly-specific priority level (A or B)) e) Date the tag was originally created f) Date date of the original work order g) Most recent date the work order was resubmitted or modified (if applicable) h) Date date of the work order after it was resubmitted or modified (if applicable) i) Date the work order was completed or closed, if any. 	Aaron Locke	11/9/2023	11/08/2023	11/08/2023	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	8.1.17	Open Work Orders	NA
491	CAFA	Sat WMP-34	CAFA_Sat WMP-34_Q1	1	CAFA_Sat WMP-34_Q1	<p>The following questions pertain to PG&E's 2023-2025 WMP Revision 3, submitted on September 27, 2023:</p> <ul style="list-style-type: none"> a) Page 1122 of your 2023 WMP R3 decreases the 2022 EPSS Reliability Study's Multiple Outage Review (MOR) Plan for Energy Partners (MOR) Independent Safety Monitor (ISM) Status Report, October 9, 2021 (ISM Report) to include the MOR program on p. 12, Item 5.9. b) In 2022, over 20 circuits underwent their independent reviews, generating approximately 1,400 action items. The program continues into 2023 with 35 circuits having had a total of 1,400 MOR items. Please describe the process for tracking these action items. c) Please provide a table or Excel sheet showing the results of each MOR for 2022, including the following, in separate columns: <ul style="list-style-type: none"> 1. The CPD's that underwent review. 2. The result of each CPD's review. 3. If the CPD's review had action items generated. 4. Details about each action item, if applicable. 5. If an action item was not created, provide a brief explanation as to why. 6. Completion date of each action item. 7. If the date each action item was completed, if applicable. 8. If an action item was not completed by its due date, provide a brief explanation as to why it was not completed on time. d) Please provide a table or Excel sheet showing the results of each MOR for 2023, including the following, in separate columns: <ul style="list-style-type: none"> 1. The CPD's that underwent review. 2. The result of each CPD's review. 3. If the CPD's review had action items generated. 4. Details about each action item, if applicable. 5. If an action item was not created, provide a brief explanation as to why. 6. Completion date of each action item. 7. If the date each action item was completed, if applicable. 8. If an action item which was not completed by its due date, provide a brief explanation as to why it was not completed on time. 	Justin Heger	12/13/2023	11/9/2024	11/9/2024	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	1	NA	8.1.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
492	CAFA	Sat WMP-34	CAFA_Sat WMP-34_Q2	2	CAFA_Sat WMP-34_Q2	<p>a) Please explain the criteria for including a CPD in a MOR for 2022.</p> <p>b) Please explain the criteria for including a CPD in a MOR for 2023.</p> <p>c) Please explain the criteria for including a CPD in a MOR for 2022.</p> <p>d) Please explain the criteria for including a CPD in a MOR for 2023.</p>	Justin Heger	12/13/2023	11/9/2024	11/9/2024	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	0	NA	2022 WMP Section 1.1	Wildfire Mitigation Strategy Development	NA
493	CAFA	Sat WMP-34	CAFA_Sat WMP-34_Q3	3	CAFA_Sat WMP-34_Q3	<p>Regarding circuits with EPSS capabilities:</p> <ul style="list-style-type: none"> a) Provide a table or Excel sheet of equipment and claims filed by customers related to outages on circuits with EPSS devices installed at the time of outage. For each item, provide the following information in separate columns: <ul style="list-style-type: none"> 1. The Circuit name and ID associated with the complaint. 2. The date each complaint claim was received. 3. Resolution of each complaint. 4. Date date of each resolution. 5. Actual completion date of each resolution. b) Provide an updated excel table of "EPSS Outage Monthly Report_10/20/23.xlsx" provided to SED that includes columns for "CPD" in the "EPSS Outage - 2021 Season" tab. 	Justin Heger	12/19/2023	11/9/2024	11/9/2024	https://www.sas.com/learn/data/analytics/whitepapers/whitepaper-332.pdf	3	NA	8.1.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings

Item ID	Agency	Set	WMP-34	CAfPA_Sel WMP-34	4	CAfPA_Sel WMP-34-04	4	CAfPA_Sel WMP-34-04	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
494	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	4	CAfPA_Sel WMP-34-04	4	CAfPA_Sel WMP-34-04	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
495	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	5	CAfPA_Sel WMP-34-05	5	CAfPA_Sel WMP-34-05	1	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
496	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	6	CAfPA_Sel WMP-34-06	6	CAfPA_Sel WMP-34-06	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
497	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	7	CAfPA_Sel WMP-34-07	7	CAfPA_Sel WMP-34-07	2	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
498	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	8	CAfPA_Sel WMP-34-08	8	CAfPA_Sel WMP-34-08	1	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
499	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	9	CAfPA_Sel WMP-34-09	9	CAfPA_Sel WMP-34-09	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
500	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	10	CAfPA_Sel WMP-34-10	10	CAfPA_Sel WMP-34-10	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
501	CAfPA	Set WMP-34	CAfPA_Sel WMP-34	11	CAfPA_Sel WMP-34-11	11	CAfPA_Sel WMP-34-11	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings	
502	CAfPA	Set WMP-35	CAfPA_Sel WMP-35	1	CAfPA_Sel WMP-35-01	1	CAfPA_Sel WMP-35-01	1	NA	8.1.2	Identification of Frequently De-Energized Circuits	NA	
503	CAfPA	Set WMP-36	CAfPA_Sel WMP-36	1	CAfPA_Sel WMP-36-01	1	CAfPA_Sel WMP-36-01	0	NA	Vegetation Management	NA	NA	
504	CAfPA	Set WMP-36	CAfPA_Sel WMP-36	2	CAfPA_Sel WMP-36-02	2	CAfPA_Sel WMP-36-02	0	NA	QDR	NA	NA	
504	CAfPA	Set WMP-36	CAfPA_Sel WMP-36	2(a)	CAfPA_Sel WMP-36-02(a)	2(a)	CAfPA_Sel WMP-36-02(a)	2	NA	QDR	NA	NA	

505	CaPA	Sat WMP-36	CaPA_Sat WMP-36	3	CaPA_Sat WMP-36_Q3	<p>Table 7 of PG&E's 2023 Q4 DQR does not reflect the planned or actual net addition or removal values reported in Table 8.</p> <p>As Please provide clarification on how PG&E responds and uses the term "fully infrastructure eligible".</p> <p>By the data published version 3.2, there is a release of the 2023 Q4 DQR. Please explain the negative values reported for metric number 1.3.3.1 in Q3 2023 and Q4 2023.</p>	Franky Liao	3/8/2024	3/9/2024	3/9/2024	https://www.pge.com/~/media/Files/2024/04/09/2023-2024-Quarterly-Data-Report-Table-8-Updated-04-09-2024.pdf	0	NA	QDR	NA	NA
506	CaPA	Sat WMP-36	CaPA_Sat WMP-36	4	CaPA_Sat WMP-36_Q4	<p>Table 9 of PG&E's 2023 Q4 DQR reports on the utility's infrastructure eligible.</p> <p>By the data published version 3.2, there is a release of the 2023 Q4 DQR. Please explain the negative values reported for metric number 1.3.3.1 in Q3 2023 and Q4 2023.</p>	Franky Liao	3/8/2024	3/9/2024	3/9/2024	https://www.pge.com/~/media/Files/2024/04/09/2023-2024-Quarterly-Data-Report-Table-9-Updated-04-09-2024.pdf	0	NA	QDR	NA	NA
507	CaPA	Sat WMP-40	CaPA_Sat WMP-40	1	CaPA_Sat WMP-40_Q1	<p>PG&E issues on page 23 of its 2023 WMP Update regarding its workflow for undergrounding and covered conductor projects.</p> <p>PG&E is currently relying on workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the deferral provided in D-23-11-069. As we update the workplan, we continue the approach described in the 2023-2024 WMP update (including the updated additional miles) and the workplan to account for unforeseen delays to individual projects such as property access, weather, permitting, and right-of-way acquisition, in some or other constraints. Thus, a portion of the projects included in the workplan may not be completed. Finally, additional projects may be identified and added to the workplan going forward for completion between 2023 and 2026.</p> <p>(a) Please identify PG&E's intended cost recovery venue for the aforementioned overhead hardening projects not completed in the 2023-26 timeframe.</p> <p>(b) Please identify PG&E's intended cost recovery venue for the aforementioned overhead hardening projects not completed in the 2023-26 timeframe.</p> <p>(c) Please identify PG&E's intended cost recovery venue for the aforementioned "additional projects" that may be identified and added to the workplan.</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-10-Updated-04-05-2024.pdf	0	NA	6.1.2	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment
508	CaPA	Sat WMP-40	CaPA_Sat WMP-40	2	CaPA_Sat WMP-40_Q2	<p>PG&E issues on page 23 of its 2023 WMP Update regarding its workflow for undergrounding projects.</p> <p>PG&E is currently relying on workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the deferral provided in D-23-11-069.</p> <p>Additional PG&E's issue 2023-2024 WMP update at page 608 around underground mileage targets or forecasts: 350 miles in 2023, 250 miles in 2024, 330 miles in 2025, and 440 miles in 2026.</p> <p>At D-23-11-069 sets annual risk reduction targets to be achieved by undergrounding 4.4 of the 2023-2026 WMP period as a whole, does PG&E currently expect to fall short of, meet, or exceed the risk reduction target established in the GRC proceeding?</p> <p>(a) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2023 due to undergrounding projects?</p> <p>(b) How does your answer to part (a) compare to the risk reduction target established in D-23-11-069?</p> <p>(c) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2024 due to undergrounding projects?</p> <p>(d) How does your answer to part (c) compare to the risk reduction target established in D-23-11-069?</p> <p>(e) How does your answer to part (d) compare to the risk reduction target established in D-23-11-069?</p> <p>(f) Does PG&E anticipate completing additional undergrounding mileage in 2023-2026 beyond the GRC-authorized 2,200 undergrounding miles?</p> <p>(g) If yes, please advise the number of miles and PG&E's intended cost recovery venue for said miles.</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-11-Updated-04-05-2024.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment
509	CaPA	Sat WMP-40	CaPA_Sat WMP-40	3	CaPA_Sat WMP-40_Q3	<p>PG&E issues on page 23 of its 2023 WMP Update regarding its workflow for covered conductor projects.</p> <p>PG&E is currently relying on workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the deferral provided in D-23-11-069.</p> <p>How many miles of covered conductor projects are currently planned for completion between 2023 and 2026?</p> <p>At D-23-11-069 sets annual risk reduction targets to be achieved by installing covered conductor. In the 2023-2026 WMP period as a whole, does PG&E currently expect to fall short of, meet, or exceed the risk reduction target established in the GRC proceeding?</p> <p>(a) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2023 due to covered conductor projects?</p> <p>(b) How does your answer to part (a) compare to the risk reduction target established in D-23-11-069?</p> <p>(c) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2024 due to covered conductor projects?</p> <p>(d) How does your answer to part (c) compare to the risk reduction target established in D-23-11-069?</p> <p>(e) How does your answer to part (d) compare to the risk reduction target established in D-23-11-069?</p> <p>(f) Does PG&E anticipate completing additional covered conductor mileage in 2023-2026 beyond the GRC-authorized 778 covered conductor miles?</p> <p>(g) If yes, please advise the number of miles and PG&E's intended cost recovery venue for said miles.</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-12-Updated-04-05-2024.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1 Covered Conductor Installation - Distribution
510	CaPA	Sat WMP-40	CaPA_Sat WMP-40	4	CaPA_Sat WMP-40_Q4	<p>PG&E issues on page 23 of its 2023 WMP Update. PG&E proposes to add a 2023 target (System Hardening - Transmission Conductor Segment Replacement (SHR)) to perform conductor segment replacement on two transmission lines."</p> <p>By the data published version 3.2, there is a release of the 2023 Q4 DQR. Please explain the negative values reported for metric number 1.3.3.1 in Q3 2023 and Q4 2023.</p> <p>(a) How does your answer to part (a) compare to the risk reduction target established in D-23-11-069, with a margin of error of 20%?</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-13-Updated-04-05-2024.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.5.1 Traditional Overhead Hardening - Transmission Conductor
511	CaPA	Sat WMP-40	CaPA_Sat WMP-40	5	CaPA_Sat WMP-40_Q5	<p>PG&E issues on page 3 of its 2023 WMP update that is introducing a new evaluation of its Wildfire Distribution Risk Model (WDRM), called WDRM v4.1. The update from the WDRM v4.1 is expected to inform some risk prioritized, short-cycle work in 2025 and other risk-prioritized long-cycle work in 2026 and beyond."</p> <p>As requested in the 2023-2024 WMP update, please identify each WMP initiative for which WDRM v4.1 is expected to inform risk-prioritized long-cycle work in 2025 and beyond."</p> <p>(a) When the WDRM v4.1 begins to inform the scoping and execution of undergrounding projects?</p> <p>(b) When does PG&E expect to begin conducting undergrounding projects that are impacted using WDRM v4.1?</p> <p>(c) When will WDRM v4.1 begin to inform the scoping and execution of covered conductor projects?</p> <p>(d) When does PG&E expect to begin conducting covered conductor projects that are impacted using WDRM v4.1?</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-14-Updated-04-05-2024.pdf	0	NA	6	Section 8 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
512	CaPA	Sat WMP-40	CaPA_Sat WMP-40	6	CaPA_Sat WMP-40_Q6	<p>PG&E issues on page 3 of its 2023 WMP update that is introducing a new evaluation of its Wildfire Distribution Risk Model (WDRM), called WDRM v4.1. The update from the WDRM v4.1 is expected to inform some risk-prioritized, short-cycle work in 2025 and other risk-prioritized long-cycle work in 2026 and beyond."</p> <p>As requested in the 2023-2024 WMP update, please identify each WMP initiative for which WDRM v4.1 is expected to inform risk-prioritized long-cycle work in 2025 and beyond."</p> <p>(a) When the WDRM v4.1 begins to inform the scoping and execution of undergrounding projects?</p> <p>(b) When does PG&E expect to begin conducting undergrounding projects that are impacted using WDRM v4.1?</p> <p>(c) When will WDRM v4.1 begin to inform the scoping and execution of covered conductor projects?</p> <p>(d) When does PG&E expect to begin conducting covered conductor projects that are impacted using WDRM v4.1?</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-15-Updated-04-05-2024.pdf	0	NA	6	Section 8 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
513	CaPA	Sat WMP-40	CaPA_Sat WMP-40	7	CaPA_Sat WMP-40_Q7	<p>PG&E issues on page 31 of its 2023 WMP Update that is responsive to ACO PG&E 23-03 - Unloading Grid Hardening Condition Making PG&E is developing a VBCA (Wildfire Defeat Cost Analysis) tool to incorporate cost differences components, including maintenance, asset, and treatment-related efficiency calculations." PG&E further states that undergrounding projects "supported with VBCA in 2024 and 2025 will likely have a completion date in 2027 or later."</p> <p>(a) Will the VBCA tool be used to scope any projects that are tracked in the System Hardening Accountability Report (SHAR) under D-23-11-069?</p> <p>(b) The answer to part (a) is yes, please explain how this tool will be identified in the SHAR.</p> <p>(c) The answer to part (a) is no, please identify any changes to the SHAR template (e.g. adding fields) that would need to be made to include the necessary information to track such projects.</p> <p>(d) Does PG&E expect to request any changes to the SHAR to facilitate tracking projects supported using the VBCA? Please explain your rationale.</p>	Mike Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/~/media/Files/2024/04/05/2023-2024-Quarterly-Data-Report-Table-16-Updated-04-05-2024.pdf	0	NA	11.4	Appendix D - Asset for Continued Improvement	11.4 ACO PG&E-23-03 - Unloading Grid Hardening Decision Making

527	MGRA	Data Request No. 9	MGRA_Data Request No. 9	5	MGRA_Data Request No. 9_G5	<p>PG&E Reduce PSPS Impacts to Customers (Section 6.3.3)</p> <p>For the 224 to 136 reduction in customer exposed to PSPS events, how many of the 224 to 136 (1) underground and (2) Microbial Switch Operations (MSOs) and (3) other factors.</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	8.1.5	9.0 Public Safety Power Shutoff	8.1.5 Performance Metrics Identified by the Electrical Corporation
528	MGRA	Data Request No. 9	MGRA_Data Request No. 9	6	MGRA_Data Request No. 9_G6	<p>Explain how MSO reduces PSPS incidence.</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	8.1.5	9.0 Public Safety Power Shutoff	8.1.5 Performance Metrics Identified by the Electrical Corporation
529	MGRA	Data Request No. 9	MGRA_Data Request No. 9	7	MGRA_Data Request No. 9_G7	<p>Does MSO also allow for EPSS to be enabled as a function of weather conditions?</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	8.1.8.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
530	MGRA	Data Request No. 9	MGRA_Data Request No. 9	8	MGRA_Data Request No. 9_G8	<p>If not, is EPSS enabled based on weather conditions and if so how?</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	8.1.8.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
531	MGRA	Data Request No. 9	MGRA_Data Request No. 9	9	MGRA_Data Request No. 9_G9	<p>Table ACI-PG&E-23-05-3: Ignition mitigation effectiveness. For A4 + Covered conductor + EPSS, effectiveness is used at 70%. A4 includes CC + EPSS, but also REFL, and DCC and shows an effectiveness of 65%. How do you explain that additional mitigation reduces the effectiveness from 70% to 65%? This calculation is in error. Please perform this as a circuit analysis, not a substitution analysis, assuming all circuits are REFL, enabled.</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-28 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
532	MGRA	Data Request No. 9	MGRA_Data Request No. 9	10	MGRA_Data Request No. 9_G10	<p>Please provide the above table ACI-PG&E-23-05-3 under the assumption that Covered Conductor wildfire ignition reduction effectiveness is 85.7%, not 64%.</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-28 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
533	MGRA	Data Request No. 9	MGRA_Data Request No. 9	11	MGRA_Data Request No. 9_G11	<p>6.57 - Non-Underground Mitigation</p> <p>This consideration of localized-specific benefits and risks is consistent with the prior decision-tree approach we used to assess projects and mitigation for consideration in 2023. In what ways does the new calculation differ from the previous decision-tree based analysis and what steps does it differ?</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-28 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
534	MGRA	Data Request No. 9	MGRA_Data Request No. 9	12	MGRA_Data Request No. 9_G12	<p>Table ACI PG&E-23-06-1</p> <p>Please provide the slides presented at these workshops, redacted for any confidential material.</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	7	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
535	MGRA	Data Request No. 9	MGRA_Data Request No. 9	13	MGRA_Data Request No. 9_G13	<p>Early Fault Detection/Distribution Fault Annunciation</p> <p>Are EFD circuits being deployed on circuits that are being scoped for undergrounding?</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
536	MGRA	Data Request No. 9	MGRA_Data Request No. 9	14	MGRA_Data Request No. 9_G14	<p>What would be the first year that a circuit will be undergrounded that might potentially be implemented with an EFD?</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
537	MGRA	Data Request No. 9	MGRA_Data Request No. 9	15	MGRA_Data Request No. 9_G15	<p>Please provide a list of responsible options for the last two years including the following system at the time of the ignition (R0, R1, R2, etc.)</p> <p>a) whether circuit was implemented with active EPSS</p> <p>b) whether circuit was implemented with active DCC</p> <p>c) whether circuit was implemented with active REFL</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-28 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
538	MGRA	Data Request No. 9	MGRA_Data Request No. 9	16	MGRA_Data Request No. 9_G16	<p>Please provide a list of outcomes for the last two years including the following additional attributes:</p> <p>a) using system at the time of the outage (R0, R1, R2, etc.)</p> <p>b) whether circuit was implemented with active DCC</p> <p>c) whether circuit was implemented with active REFL</p>	Joseph Michael	4/8/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/MGRA_009.pdf</p>	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-28 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
539	CaPA	Set WMP-42	CaPA_Set WMP-42	1	CaPA_Set WMP-42_Q1	<p>Page 10 of PG&E's 2023 WMP Update states that for version 4 of PG&E's Wildfire Consequence Model, PG&E increased the fire simulation time from eight to 24 hours.</p> <p>a) what the reason why PG&E chose to increase the fire simulation time to 24 hours?</p> <p>b) PG&E aware of any potential detrimental effects associated with increasing the fire simulation time from eight to 24 hours?</p> <p>c) If the answer to part (b) is yes, list any such potential detrimental effects.</p> <p>d) How does PG&E ensure so far to validate the accuracy of 24-hour fire simulations?</p>	Holy Wetman	4/9/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/CA/CA/Appendix_009.pdf</p>	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
540	CaPA	Set WMP-42	CaPA_Set WMP-42	2	CaPA_Set WMP-42_Q2	<p>Page 1021 of PG&E's 2023-2025 WMP Risk data, in response to ACI PG&E-22-05, PG&E stated that PG&E will continue to use the 24-hour simulation for the WFCM. PG&E will continue to use the 24-hour simulation for the WFCM. PG&E will continue to use the 24-hour simulation for the WFCM. PG&E will continue to use the 24-hour simulation for the WFCM.</p>	Holy Wetman	4/9/2024	4/1/2024	4/1/2024	<p>https://www.pge.com/Pages/Reports/Utilities-Grid/Utilities-Grid-Operations-and-Support/CA/CA/Appendix_009.pdf</p>	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence

541	CaPA	Set WMP-42	CaPA_Set WMP-42	3	CaPA_Set WMP-42_03	<p>Page 7 of PG&E's 2025 WMP Update states, with regard to PG&E's distribution event probability models, "The primary effort was made to improve asset, lightning, and outage data quality. List and explain the significant efforts discussed above."</p>	<p>As mentioned on page 7 of PG&E's 2025 WMP, the following is a more detailed list of specific data quality improvements that are a result of the continued effort to improve the quality and utilization of model data for assets, lightning, and outages:</p> <ul style="list-style-type: none"> Asset data quality improvements included: <ul style="list-style-type: none"> Tracing asset failures and asset history back in time to identify the asset that failed and its characteristics. Gathering asset information related to causal pathways as recommended by Subject Matter Experts (SMEs). For support structures, this included: <ul style="list-style-type: none"> Propagating peak remaining strength to a failure in the model. For primary conductors, this included: <ul style="list-style-type: none"> Calibrating distribution load flow software outputs. DRM's conductor material and data files from categorical model inputs to continuous model inputs (i.e. conductor diameter, conductor strength, and conductor weight). Using LDMR data and service observations when available in HFTD areas. Including data from the Firestorm Inspection (FI) model developed by the Applied Technology Services (ATS) team that assessed fault current and fault clearing times. For primary protective devices, fuses, switches, capacitor banks, and voltage regulators: <ul style="list-style-type: none"> Gathering asset attributes as captured in EGDOS over time (2014-2022). Including open logs. For primary protective devices, fuses, switches, capacitor banks, and voltage regulators: <ul style="list-style-type: none"> Gathering asset attributes as captured in EGDOS over time (2014-2022). Including open logs. Creating methodologies to estimate asset age when missing. Reporting asset data quality issues to the Asset Knowledge Management team to resolve. <p>Lightning data quality improvements were primarily focused on:</p> <ul style="list-style-type: none"> Enhancing weather lightning data for use in the wildfire consequence model. Reporting data quality issues back to the lightning investigation team to resolve. <p>Outage data quality improvements included:</p> <ul style="list-style-type: none"> Improving the incorporating vegetation outage report failure & longline locations to the model incorporating the vegetation removal from paper "Vegetation Classification and Risk Assessment of Weather-Related Outages" by Rui Yao found here: https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf. <p>Within this paper, a probability density function is defined (equation 14) which quantifies the probability per angle that a conductor given the conductor's normal vector and direction of the wind. This probability density is integrated against the conductor's wind angle, to calculate the total probability of a line given a wind's direction, the tree's location, and the location of the conductor segment.</p> <p>Due to the unavailability of LDMR for the distribution system, PGE's canopy height meter (CHM) is used to assess the frequency of the conductor's path and an average frequency height of 8 meters to determine which of the trees within the canopy height meter which can fall on a conductor and, approximately, which trees are more likely to have a chance of transmittals from the tree falling into a conductor for each conductor segment. The CHM data is used. This data is in the 2 m resolution and covers the years 2015 to 2021. Only the trees within the canopy height meter which can fall on a conductor are used. The trees are then filtered to only those trees that are within the canopy height meter. The trees are then filtered to only those trees that are within the canopy height meter.</p> <p>The CHM data is used to determine the probability of a tree falling into a conductor for each conductor segment. The CHM data is used to determine the probability of a tree falling into a conductor for each conductor segment. The CHM data is used to determine the probability of a tree falling into a conductor for each conductor segment.</p> 	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2 Consequence
542	CaPA	Set WMP-42	CaPA_Set WMP-42	4	CaPA_Set WMP-42_04	<p>Table PG&E-B-1.1.1 on page 8 of PG&E's 2025 WMP Update indicates that WORM of include wind direction in its vegetation models.</p> <p>(a) Describe how wind direction is incorporated in the vegetation model in WORM.v4.</p> <p>(b) List the data sources that PG&E uses to incorporate wind direction into its risk model.</p> <p>(c) Describe the benefits of incorporating wind direction into the risk model.</p>	<p>Table PG&E-B-1.1.1 on page 8 of PG&E's 2025 WMP Update indicates that WORM of include wind direction in its vegetation models.</p> <p>(a) Describe how wind direction is incorporated in the vegetation model in WORM.v4.</p> <p>(b) List the data sources that PG&E uses to incorporate wind direction into its risk model.</p> <p>(c) Describe the benefits of incorporating wind direction into the risk model.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
543	CaPA	Set WMP-42	CaPA_Set WMP-42	5	CaPA_Set WMP-42_05	<p>Page 16 of PG&E's 2025 WMP Update states, "In the WORM of update, we completed this study conservatively by applying a remaining strength of 52% to reinforced poles. In order to provide more accurate results."</p> <p>State the basis for applying a remaining strength of 52% to reinforced poles.</p>	<p>Page 16 of PG&E's 2025 WMP Update states, "In the WORM of update, we completed this study conservatively by applying a remaining strength of 52% to reinforced poles. In order to provide more accurate results."</p> <p>State the basis for applying a remaining strength of 52% to reinforced poles.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2 Consequence
544	CaPA	Set WMP-42	CaPA_Set WMP-42	6	CaPA_Set WMP-42_06	<p>Page 17 of PG&E's 2025 WMP Update states, "When viewed on a line weighted basis, the relative average risk of each transmission line can be viewed for heights. It should be noted that these risk weighted values will tend to highlight short lines with high risk."</p> <p>(a) Does PG&E plan to correct for this bias that risk weighted values tend to highlight short lines? If the answer is part (a) is no, explain the metrics PG&E plans to use.</p> <p>(b) If the answer is part (a) is no, explain why not.</p>	<p>Page 17 of PG&E's 2025 WMP Update states, "When viewed on a line weighted basis, the relative average risk of each transmission line can be viewed for heights. It should be noted that these risk weighted values will tend to highlight short lines with high risk."</p> <p>(a) Does PG&E plan to correct for this bias that risk weighted values tend to highlight short lines? If the answer is part (a) is no, explain the metrics PG&E plans to use.</p> <p>(b) If the answer is part (a) is no, explain why not.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2 Consequence
545	CaPA	Set WMP-42	CaPA_Set WMP-42	7	CaPA_Set WMP-42_07	<p>Page 24 of PG&E's 2025 WMP Update states that PG&E is adjusting target PS-1 (Reduce PS&S Impacts to Customers) in 2025 downward by 40% to account for a 40% decrease in underground cables.</p> <p>Does PG&E expect a similar reduction in the number of EPSS customer events mitigated in 2025? Explain your answer.</p>	<p>Page 24 of PG&E's 2025 WMP Update states that PG&E is adjusting target PS-1 (Reduce PS&S Impacts to Customers) in 2025 downward by 40% to account for a 40% decrease in underground cables.</p> <p>Does PG&E expect a similar reduction in the number of EPSS customer events mitigated in 2025? Explain your answer.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD
546	CaPA	Set WMP-42	CaPA_Set WMP-42	8	CaPA_Set WMP-42_08	<p>Page 29 of PG&E's 2025 WMP Update states that PG&E's 2025 forecast capital expenditure associated with the proposed transmission line is \$1.2 billion. The updated T&E PG&E-1.2.1 on page 42 of PG&E's 2025 WMP PS-3 metric indicates that, in 2025, the average annual cost of EPSS risk is \$1.2 billion. Please explain why PG&E's capital forecast for 2025 will increase by a factor of 8 while the average will increase by a factor of 4.</p>	<p>Page 29 of PG&E's 2025 WMP Update states that PG&E's 2025 forecast capital expenditure associated with the proposed transmission line is \$1.2 billion. The updated T&E PG&E-1.2.1 on page 42 of PG&E's 2025 WMP PS-3 metric indicates that, in 2025, the average annual cost of EPSS risk is \$1.2 billion. Please explain why PG&E's capital forecast for 2025 will increase by a factor of 8 while the average will increase by a factor of 4.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	4.3	4.0 Overview of WMP	4.3 Proposed Expenditures
547	CaPA	Set WMP-42	CaPA_Set WMP-42	9	CaPA_Set WMP-42_09	<p>In comparison to PG&E's WORM.v3, does WORM.v4:</p> <p>(a) At least 10 percent or more of ignition into or out of the top ignition risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.1 in section 1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM.v3 and v4.</p> <p>(b) More than 10 percent or more of EPSS risk into or out of the top PS&S risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.2 in section 1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM.v3 and v4.</p>	<p>In comparison to PG&E's WORM.v3, does WORM.v4:</p> <p>(a) At least 10 percent or more of ignition into or out of the top ignition risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.1 in section 1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM.v3 and v4.</p> <p>(b) More than 10 percent or more of EPSS risk into or out of the top PS&S risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.2 in section 1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM.v3 and v4.</p>	Holly Wetman	4/9/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	1	NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
548	CaPA	Set WMP-43	CaPA_Set WMP-43	1	CaPA_Set WMP-43_01	<p>Does this not appear to be an option of covered conductor with both EPSS and DCD?</p> <p>(a) Did PG&E consider an alternative that consisted of covered conductor with EPSS and DCD?</p> <p>(b) If the answer is part (a) is yes, why is this option not included as one of the possible alternatives in the WBCA?</p> <p>(c) If the answer is part (a) is no, why not?</p>	<p>Does this not appear to be an option of covered conductor with both EPSS and DCD?</p> <p>(a) Did PG&E consider an alternative that consisted of covered conductor with EPSS and DCD?</p> <p>(b) If the answer is part (a) is yes, why is this option not included as one of the possible alternatives in the WBCA?</p> <p>(c) If the answer is part (a) is no, why not?</p>	Holly Wetman	4/12/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Old Hedging Decision Making
549	CaPA	Set WMP-43	CaPA_Set WMP-43	2	CaPA_Set WMP-43_02	<p>The blended average effectiveness for alternative 3 (REFCL with covered conductor, EPSS, and DCD) is lower than the effectiveness for alternative 4 (covered conductor with EPSS).</p> <p>(a) Why does the effectiveness for alternative 3 appear lower than alternative 4, although alternative 3 appears to include more mitigation techniques?</p>	<p>The blended average effectiveness for alternative 3 (REFCL with covered conductor, EPSS, and DCD) is lower than the effectiveness for alternative 4 (covered conductor with EPSS).</p> <p>(a) Why does the effectiveness for alternative 3 appear lower than alternative 4, although alternative 3 appears to include more mitigation techniques?</p>	Holly Wetman	4/12/2024	4/12/2024	4/12/2024	https://www.pge.com/Portals/0/Utilities/asset/knowledge/vegetation_classification_and_risk_assessment_of_weather-related_outages.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Old Hedging Decision Making

558	CaPA	Set WMP-43	CaPA_Set WMP-43	11	CaPA_Set WMP-43_011	<p>Pages 66-67 of PG&E's 2025 WMP Update list three workshops the Joint Utilities held with Energy Safety June 2023 Distribution Fault Mitigation, August 2023 REFLC, and a copy of any materials prepared for PG&E for each of the three workshops.</p> <p>1) Provide a copy of any materials prepared for PG&E for each of the three workshops.</p> <p>2) Please verify whether PG&E possesses any meeting minutes associated with the workshops.</p> <p>3) List any other findings from the monthly meetings in 2023 noted above.</p> <p>4) If any, please provide these in response to the data request.</p>	<p>10) Please see the table below for presentation materials for the workshops identified in Workshop Data & Title Attachment Name:</p> <p>June 2023 Distribution Fault Mitigation (DFA) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0001.pdf WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0002.pdf July 2023 Early Fault Detection (EFD) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0003.pdf August 2023 Rapid Earth Fault Current Limiter (REFCL) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0004.pdf</p> <p>11) No meeting minutes, recordings were taken or prepared at the referenced workshops. Please see the response to subpart (a) for the presentation materials from the workshops.</p> <p>12) The findings from the workshops are as follows:</p> <p>1) For the June 2023 DFA workshop, SCE and SOG&E are finding similar successes using the technology as PG&E. SOG&E is using a different system however, and is not prepared to undertake a future trial.</p> <p>2) For the July 2023 EFD workshop, SCE is finding similar successes using the technology as PG&E and is also using the technology on transmission lines.</p> <p>3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>13) PG&E's action item from these workshops is to continue the discussion and collaboration about uses of EFD and DFA, and expansion on WMP commitments on these technologies. We are also evaluating the usage of REFLC to determine the appropriate value and risk associated with it.</p>	Holy Wellman	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0211A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0211A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0211A0003.pdf	4	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
558	CaPA	Set WMP-43	CaPA_Set WMP-43	1100	CaPA_Set WMP-43_0116a	<p>In response to part (b), PG&E stated, "No reports, minutes, recordings were taken or prepared at the referenced workshop." However, Slide 8 of attachment 2 state "meeting minutes" under "next steps".</p> <p>1) Please verify whether PG&E possesses any meeting minutes associated with the workshops discussed in question 11.</p> <p>2) If any, please provide these in response to the data request.</p>	<p>10) The supplemental request from Holy Wellman requested on April 10, 2024, in response to part (b), PG&E stated, "No reports, minutes, recordings were taken or prepared at the referenced workshop." However, Slide 8 of attachment 2 state "meeting minutes" under "next steps".</p> <p>1) Please verify whether PG&E possesses any meeting minutes associated with the workshops discussed in question 11.</p> <p>2) If any, please provide these in response to the data request.</p> <p>PG&E responds as follows:</p> <p>1) PG&E attached Attachment 2 (2023) to the workshop and maintains the workshop materials. The "Next Steps" included in "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0004.pdf" were to include Meeting Minutes. However, SCE did not end up creating the referenced minutes.</p> <p>12) Please see the table below for presentation materials for the workshops identified in Workshop Data & Title Attachment Name:</p> <p>June 2023 Distribution Fault Mitigation (DFA) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0001.pdf WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0002.pdf July 2023 Early Fault Detection (EFD) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0003.pdf August 2023 Rapid Earth Fault Current Limiter (REFCL) WMP-Discovery2023-2025_DR_CaPAUtilities_043-0211A0004.pdf</p> <p>13) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the response to subpart (a) for the presentation materials from the workshops.</p> <p>14) The findings from the workshops are as follows:</p> <p>1) For the June 2023 DFA workshop, SCE and SOG&E are finding similar successes using the technology as PG&E. SOG&E is using a different system however, and is not prepared to undertake a future trial.</p> <p>2) For the July 2023 EFD workshop, SCE is finding similar successes using the technology as PG&E and is also using the technology on transmission lines.</p> <p>3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>15) PG&E's action item from these workshops is to continue the discussion and collaboration about uses of EFD and DFA, and expansion on WMP commitments on these technologies. We are also evaluating the usage of REFLC to determine the appropriate value and risk associated with it.</p>	Holy Wellman	4/19/2024	4/24/2024	4/24/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0211A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0211A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0211A0003.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
559	CaPA	Set WMP-43	CaPA_Set WMP-43	12	CaPA_Set WMP-43_012	<p>Page 67 of PG&E's 2025 WMP Update states, "In 2023, the utilities discussed the unit costs of CC and underpinning and covered conductors. As a high level, the different cost drivers of covered conductors and underpinning were discussed in 2023 for each of the Joint Utilities.</p> <p>1) Provide the unit costs of covered conductor that were discussed in 2023 for each of the Joint Utilities.</p> <p>2) Describe the unit costs of underpinning that were discussed in 2023 for each of the Joint Utilities.</p> <p>3) Describe the unit costs of covered conductors that were discussed in 2023 for each of the Joint Utilities.</p> <p>4) List any other findings from the monthly meetings in 2023 noted above.</p>	<p>10) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0001.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing covered conductor costs begins on page 39.</p> <p>11) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0002.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing underpinning costs begins on page 40.</p> <p>12) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0003.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing unit drivers begins on page 39.</p> <p>13) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0004.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information.</p>	Holy Wellman	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0210A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0210A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0210A0003.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
559	CaPA	Set WMP-43	CaPA_Set WMP-43	1200	CaPA_Set WMP-43_0120a	<p>Cal Advocates requested results of meetings held in 2023 regarding the unit costs and cost drivers of covered conductor and underpinning. PG&E's response refers to the attachment to Question 12 which, as noted above, does not discuss results from 2023 meetings.</p> <p>1) Please verify whether PG&E possesses documents responsive to question 12 that include the unit costs and cost drivers of covered conductor and underpinning based on meetings held in 2023.</p> <p>2) If any, please provide these in response to the data request.</p>	<p>10) The supplemental request from Holy Wellman requested on April 10, 2024, Cal Advocates requested results of meetings held in 2023 regarding the unit costs and cost drivers of covered conductor and underpinning. PG&E's response refers to the attachment to Question 12 which, as noted above, does not discuss results from 2023 meetings.</p> <p>1) Please verify whether PG&E possesses documents responsive to question 12 that include the unit costs and cost drivers of covered conductor and underpinning based on meetings held in 2023.</p> <p>2) If any, please provide these in response to the data request.</p> <p>PG&E responds as follows:</p> <p>1) PG&E does not possess materials in addition to what was provided in the 2025 WMP Update.</p> <p>2) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0001.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing covered conductor costs begins on page 39.</p> <p>3) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0002.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing underpinning costs begins on page 40.</p> <p>4) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0003.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing unit drivers begins on page 39.</p> <p>5) Please see attachment "WMP-Discovery2023-2025_DR_CaPAUtilities_043-0210A0004.pdf" for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information.</p>	Holy Wellman	4/19/2024	4/24/2024	4/24/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0210A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0210A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0210A0003.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
560	CaPA	Set WMP-43	CaPA_Set WMP-43	13	CaPA_Set WMP-43_013	<p>Page 68 of PG&E's 2025 WMP Update states, with regard to the REFLC pilot at the Calatoga substation, "Although we are committed to continuing this demonstration project, several factors have caused delays in commissioning this program, including equipment failure, extended lead time of equipment, and the need to procure additional equipment to further stabilize the system."</p> <p>1) List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>2) List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>3) List and describe each instance of extended lead time that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>4) Other than PG&E currently anticipates receiving favorable results from the REFLC pilot at the Calatoga substation.</p> <p>5) Describe PG&E's plans to make in 2024 to accelerate the REFLC pilot at the Calatoga substation.</p> <p>6) List each of the efforts PG&E plans to make in 2024 to accelerate the REFLC pilot at the Calatoga substation.</p> <p>7) List each of the efforts PG&E plans to make in 2025 to accelerate the REFLC pilot at the Calatoga substation.</p>	<p>10) These equipment failures that occurred during 2021 and 2022 delayed the commissioning of the program:</p> <p>1) In 2021, a substation voltage regulator failure occurred during a test program, which included the requested cost information. The section discussing covered conductor costs begins on page 39.</p> <p>2) In 2022, a substation ground transformer failure occurred, and PG&E had to procure additional equipment to further stabilize the system.</p> <p>3) In 2022, a utility vehicle accident occurred, which delayed the commissioning of the program.</p> <p>4) In 2021, a mobile test trailer for fault testing.</p> <p>5) In 2021, replacement substation voltage regulators and RCC.</p> <p>6) In 2022, replacement of grounding transformer and RCC.</p> <p>7) PG&E has procured a temporary test trailer to replace high-voltage testing trailer to stabilize the operation of the REFLC system. At this time, we have no plans to procure additional equipment.</p> <p>8) PG&E currently anticipates receiving favorable results from the REFLC pilot at the Calatoga substation at the end of 2024.</p> <p>9) In order to accelerate the REFLC pilot at the Calatoga substation in 2023, PG&E worked with the supplier to design and expedite a temporary resistor to reduce neutral voltage. This was necessary due to PG&E observing high standing neutral voltage which could not be reduced with balancing the ground currents. The found PG&E temporarily disable REFLC and work with the supplier for the resistor replacement to resume the project forward.</p> <p>10) In order to accelerate the REFLC pilot in 2024, PG&E is installing and testing the temporary resistor to allow the REFLC system to be put back into service.</p> <p>11) PG&E cannot, at this time, identify specific efforts that it will make in 2025 to accelerate the REFLC pilot because the 2025 workshop is dependent on the results of the work in 2024, which we will address.</p>	Holy Wellman	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0210A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0210A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0210A0003.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
561	CaPA	Set WMP-43	CaPA_Set WMP-43	14	CaPA_Set WMP-43_014	<p>Page 69 of PG&E's 2025 WMP Update states, "As of December 2023, PG&E moved beyond pilot and into deployment of these technologies, having deployed EFD technology on 103 locations over 6 distribution circuits and DFA technology at 79 substations."</p> <p>1) Show the approximate number of circuits on which EFD is currently active.</p> <p>2) Show the approximate number of substations on which DFA is currently active.</p> <p>3) Describe PG&E's standards and criteria for determining when to install DFA technology.</p> <p>4) Describe the results of the pilot program mentioned in the quote above, which prompted PG&E to move the production and deployment of these technologies in December 2023.</p> <p>5) Provide any reports, analyses, or other documentation of the results of the pilot program.</p>	<p>10) PG&E currently has 200 circuits currently active for EFD.</p> <p>11) PG&E currently has 7000 circuits currently active for DFA.</p> <p>12) EFD circuit locations are determined on a case-by-case basis on higher HFRA/HFTD risk score, stability, and storage analysis.</p> <p>13) EFD circuit locations are determined on a case-by-case basis on higher HFRA/HFTD risk score, stability, and storage analysis.</p> <p>14) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>15) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>16) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>17) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>18) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>19) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p> <p>20) PG&E has implemented customer (CEM 2), which is fully impacted by EFD, and stability impacted customers (CEM 1), which is fully impacted by EFD.</p>	Holy Wellman	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/Pdf/Reports/Workshops/2023/2023-06-20-DFA-Workshop-043-0210A0001.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-07-20-EFD-Workshop-043-0210A0002.pdf https://www.pge.com/Pdf/Reports/Workshops/2023/2023-08-20-REFCL-Workshop-043-0210A0003.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies

572	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	2	CAIPA_Sat WMP-44-02	<p>Page 54 of PG&E's 2025 WMP Update states: "To determine circuit segment-level mitigation effectiveness, the WBCA will adjust for the outage combinations likely to occur on a given circuit segment, their estimated frequency, and their contribution to overall risk on the circuit segment."</p> <p>a) Please describe the methods used in the WBCA to adjust for the outage combinations likely to occur on a given circuit segment.</p> <p>b) Please describe the methods used in the WBCA to adjust for the estimated frequency of outage combinations as a function of circuit segment.</p> <p>c) Please describe the methods used in the WBCA to adjust for the contribution of outage combinations to overall risk on a given circuit segment.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Reliability Decision Making
573	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	3	CAIPA_Sat WMP-44-03	<p>Page 54 of PG&E's 2025 WMP Update states: "To determine circuit segment-level mitigation effectiveness, the WBCA will adjust for the outage combinations likely to occur on a given circuit segment, their estimated frequency, and their contribution to overall risk on the circuit segment."</p> <p>a) Please describe the methods used in the WBCA to adjust for the estimated frequency of outage combinations as a function of circuit segment.</p> <p>b) Please describe the methods used in the WBCA to adjust for the contribution of outage combinations to overall risk on a given circuit segment.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Reliability Decision Making
574	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	4	CAIPA_Sat WMP-44-04	<p>Page 16 of PG&E's 2025 WMP Update discusses Underwriting versus Overhead Reliability. Underwriting is defined to have greater total parameter risk reduction, but it takes longer and costs more to install. As the PG&E conducted an analysis of transmission and distribution systems to determine the estimated remaining useful life of its assets."</p> <p>a) How does PG&E consider the remaining life of assets when evaluating benefits of remaining overhead, which is faster to deploy?</p> <p>b) If the answer to part (a) is no, please provide any applicable analysis relevant to the condition of PG&E's transmission and distribution system assets.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Reliability Decision Making
575	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	5	CAIPA_Sat WMP-44-05	<p>Page 27 of PG&E's 2025 WMP Update states: "Regarding cost effectiveness scores, the underlying projects of PG&E's current program were previously analyzed using a methodology (WDRM V2) that did not incorporate cost effectiveness scores for individual projects. Therefore, cost effectiveness scores are not available."</p> <p>a) Define the term "undergoing project" in the above statement.</p> <p>b) How does PG&E use the response from WDRM v2 to calculate the cost effectiveness scores for the underlying projects in PG&E's current program?</p> <p>c) If the answer to part (b) is no, explain why not.</p> <p>d) Does PG&E plan to use the update from WDRM v3 to calculate the cost effectiveness scores for the underlying projects in PG&E's current program?</p> <p>e) If the answer to part (d) is no, when does PG&E anticipate completing the analysis?</p> <p>f) If the answer to part (e) is no, explain why not.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Reliability Decision Making
576	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	6	CAIPA_Sat WMP-44-06	<p>Figure ACI-PG&E-23-03-1 on page 40 of PG&E's 2025 WMP Update states: "When considering the overall wildfire risk with EPSS and PPSI, this risk is <math>30.1</math> Distribution Overhead."</p> <p>a) Define the phrase "Distribution Overhead" in this context.</p> <p>b) Please state the significance of the "30.1" value of overall wildfire risk with EPSS and PPSI compared to "Distribution Overhead."</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-02 - PPSI and Wildfire Risk Trade-Off Transparency
577	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	7	CAIPA_Sat WMP-44-07	<p>Figure ACI-PG&E-23-03-1 on page 40 of PG&E's 2025 WMP Update indicates that wildfire risk is approximately \$20.68 million, and PPSI and EPSS combined reduce the wildfire risk by approximately \$16.35 million. At the \$20.68 million wildfire risk and the \$16.35 million risk reduction estimates annual values?</p> <p>a) Do the \$20.68 million wildfire risk and the \$16.35 million risk reduction estimates apply to PG&E's entire service territory? Please explain why not.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-02 - PPSI and Wildfire Risk Trade-Off Transparency
578	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	8	CAIPA_Sat WMP-44-08	<p>Figure ACI-PG&E-23-03-1 on page 40 of PG&E's 2025 WMP Update indicates that wildfire risk is approximately \$20.68 million, and PPSI and EPSS combined reduce the wildfire risk by approximately \$16.35 million. At the PG&E estimated the incremental wildfire risk reduction (in dollars) attributed to widespread deployment of REFLC. Please provide the estimate.</p> <p>a) If the answer to part (a) is no, why has PG&E not conducted that analysis?</p> <p>b) If the answer to part (a) is yes, why has PG&E not conducted that analysis?</p> <p>c) How does PG&E estimate the incremental wildfire risk reduction attributed to widespread deployment of REFLC? Please provide the estimate if not.</p> <p>d) If the answer to part (d) is no, why has PG&E not conducted that analysis?</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-02 - PPSI and Wildfire Risk Trade-Off Transparency
579	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	9	CAIPA_Sat WMP-44-09	<p>Page 89 of PG&E's 2025 WMP Update states: "CDCI prioritizes the system on EPSS-related critical risk reduced by approximately 72% relative to the three-year historical average."</p> <p>a) Please provide copies of any reports, analyses, or other documentation to support PG&E's statement stated above.</p> <p>b) If the answer to part (a) is no, please provide any applicable analysis relevant to the condition of PG&E's transmission and distribution system assets.</p> <p>c) If the answer to part (b) is no, please state how such outages are distinguished.</p> <p>d) If the answer to part (d) is no, does PG&E plan to make such outages distinguishable in future EPSS monthly reports?</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-18 - Effectiveness Analysis for EPSS Implementation of DCD
580	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	10	CAIPA_Sat WMP-44-010	<p>The following table is from PG&E's 2022 Annual Electric Reliability Report, page 12.</p> <p>a) Please provide an updated version of this table with an additional row for 2023.</p> <p>b) If PG&E is unable to provide any of the requested data from part (a), please provide a reason for each data point.</p> <p>c) If PG&E is unable to provide any of the requested data from part (b), please provide an estimate of when this data will be available.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	NA	NA	NA
581	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	11	CAIPA_Sat WMP-44-011	<p>Page 89 of PG&E's 2025 WMP Update states: "The 2023 FTI (forced line inspection) program reduced overhead inspection practices and evaluated improvements to situational awareness to further inform air quality clearance recommendations. Based on results of the program, PG&E is moving forward with increasing FTI to 1,000 miles of work in 2024."</p> <p>a) Please describe the results of the program on which PG&E is basing the decision to move forward with increasing 1,000 miles of work in 2024.</p> <p>b) Provide any available reports, analyses, or other documentation of the results of the program.</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-19 - Continued Progression of Vegetation Management Maturity
582	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	12	CAIPA_Sat WMP-44-012	<p>Table ACI-PG&E-23-23-1 on page 112 of PG&E's 2025 WMP Update includes the following entry:</p> <p>a) Explain why the last calibration date of the weather station was recorded as 9/1/2022, over three months after the station was terminated on September 17, 2022.</p> <p>b) Provide any records of the calibration on 9/1/2022.</p> <p>c) When did PG&E become aware that the site had been decommissioned?</p> <p>d) When does PG&E plan to replace the destroyed site?</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-23 - Weather Station Maintenance and Calibration
583	CAIPA	Set WMP-44	CAIPA_Sat WMP-44	13	CAIPA_Sat WMP-44-013	<p>Table ACI-PG&E-23-23-1 on page 113 of PG&E's 2025 WMP Update includes the following entry:</p> <p>a) Explain why the last calibration date of this weather station was recorded as 11/1/2022, over one month after the other did PG&E become aware that the station had been removed?</p> <p>b) Provide any records of the calibration on 11/1/2022.</p> <p>c) When did PG&E become aware that the station had been removed?</p> <p>d) When does PG&E plan to replace the station?</p>	<p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p> <p>https://www.pge.com/~/media/Files/2025/WMP/2025-WMP-Update-04-2025.pdf</p>	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-23 - Weather Station Maintenance and Calibration

005	OEIS	017	OEIS_017	1	OEIS_017_01	<p>Regarding the Joint Utility Covered Conductor Effectiveness Weekly Meetings (OEIS's 2023 Update mentions that Participants' monthly meetings with utilities in 2023 "to document and share information regarding covered conductor effectiveness" (p. 48, response to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Inclusion of Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety"). Please explain the following:</p> <ol style="list-style-type: none"> Which utility was present at these weekly meetings. The frequency of these meetings. These meetings were in response to a specific Area of Continued Improvement. In case, please state which Area of Continued Improvement. In case, please state what directive these meetings were in response to. 	Brad H	4/9/2024	5/2/2024	5/2/2024	https://www.epa.gov/permits/permits/colm/colm-2023-017-01	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-04
006	OEIS	017	OEIS_017	2	OEIS_017_02	<p>Regarding the Utility Underpinning Working Group Meetings (PG&E's 2023 Update mentions that "Lastly, the utility also developed an undergrounding working group to discuss seasonal demand and the challenge associated with undergrounding" (p. 48, response to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Inclusion of 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. Which utility, monthly, weekly, or quarterly meetings? Please specify. If these meetings were in response to a specific Area of Continued Improvement. In case, please state which Area of Continued Improvement. In case, please state what directive these meetings were in response to. 	Brad H	4/9/2024	5/2/2024	5/2/2024	https://www.epa.gov/permits/permits/colm/colm-2023-017-02	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-04
007	OEIS	017	OEIS_017	3	OEIS_017_03	<p>Regarding the Shared Joint Utility Monthly Meetings (PG&E's 2023 Update mentions that "Furthermore, as described above, PG&E, SCE, and SDG&E developed shared monthly joint utility meetings, creating a forum to keep one another updated and discuss wildfire topics" (p. 48, response to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Inclusion of Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety"). Please provide the following:</p> <ol style="list-style-type: none"> The frequency of these meetings. Which utility, monthly, weekly, or quarterly meetings? Please specify. If these meetings were in response to a specific Area of Continued Improvement. In case, please state which Area of Continued Improvement. In case, please state what directive these meetings were in response to. 	Brad H	4/9/2024	5/2/2024	5/2/2024	https://www.epa.gov/permits/permits/colm/colm-2023-017-03	4	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-04
008	OEIS	017	OEIS_017	4	OEIS_017_04	<p>Regarding the Joint Utility Monthly Meetings on the WMP (PG&E's 2023 Update mentions that "The Joint Utility conduct a monthly meeting that discusses many areas of the WMP in depth. PG&E, Southern California Edison Company (SCE), and SDG&E each have turn leading the meetings. Topics for these meetings generally cover regulation, planning, and implementation, regulatory developments, and benchmarking" (p. 48, response to PG&E 23-04 "Cross-Utility Collaboration on Best Practices for Inclusion of Climate Change Forecasts in Consequence Modeling, Inclusion of Community Vulnerability in Consequence Modeling, and Utility Vegetation Management for Wildfire Safety"). Please provide the following:</p> <ol style="list-style-type: none"> The frequency of these meetings. Which utility, monthly, weekly, or quarterly meetings? Please specify. If these meetings were in response to a specific Area of Continued Improvement. In case, please state which Area of Continued Improvement. In case, please state what directive these meetings were in response to. 	Brad H	4/9/2024	5/2/2024	5/2/2024	https://www.epa.gov/permits/permits/colm/colm-2023-017-04	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-04
009	MDRA	Data Request No. 13	MDRA_Data Request No. 13	1	MDRA_Data Request No. 13_01	<p>The PG&E response supplied to WMPA-Discovery2022-0002_DR_MDRA_000-021548301 ("Ignition ID") was incomplete and incomplete data is contained on ID that could be accessed referenced by PG&E's regulated ignition data base. Is contained on ignition data, not ignition area, which makes it impossible to distinguish, since many ignitions often occur on the same day. The missing response therefore has not been made available for any potential investigation regarding cause or whether and if of limited utility. Please provide an updated version containing identified ignition IDs and times.</p>	Joseph Michal	4/30/2024	5/3/2024	5/1/2024	https://www.epa.gov/permits/permits/colm/colm-2023-013-01	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-25 Fire Potential Index (FFI) and Ignition Probability Weather (IPW) Enhancements
010	CAFA	Set WMP-47	CAFA_Set WMP-47	1	CAFA_Set WMP-47_01	<p>The attached spreadsheet (filename: "CaliforniaPG&E-2023WMP-11Q1ATICH_CONF.xlsx") contains a subset of PG&E's 2024-2025 system hardening activities as provided in response to Cal Air's public data request CaliforniaPG&E-2023WMP-01-Question 8. Specifically, it contains 30 undergrounding projects that were located using Wildfire Distribution Risk Model (WDRM) v3. 30 undergrounding projects that were located using Wildfire Distribution Risk Model (WDRM) v1, and 81 projects in locations with one of v2 and v3 lists.</p>	Mica Gordon	4/30/2024	5/3/2024	5/3/2024	https://www.epa.gov/permits/permits/colm/colm-2023-010-01	0	NA	8.1,2,5	System Hardening	NA
011	MDRA	Data Request No. 14	MDRA_Data Request No. 14	1	MDRA_Data Request No. 14_01	<p>The event referenced WMP-Discovery2022-0002_DR_MDRA_013-020174201 ("Ignition ID") contains 11 ignitions in which the correct was activated with WDRM v4 for all occurrences in WFTD. PG&E's WMP-47 response was that only PG&E included event data in its event data set.</p>	Joseph Michal	5/2/2024	5/7/2024	5/7/2024	https://www.epa.gov/permits/permits/colm/colm-2023-014-01	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-25 Fire Potential Index (FFI) and Ignition Probability Weather (IPW) Enhancements
012	MDRA	Data Request No. 14	MDRA_Data Request No. 14	2	MDRA_Data Request No. 14_02	<p>Please provide the full cause (as reported to the CPUC) for the ignitions that occurred on the DCC-enabled conductors.</p>	Joseph Michal	5/2/2024	5/7/2024	5/7/2024	https://www.epa.gov/permits/permits/colm/colm-2023-014-02	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-25 Fire Potential Index (FFI) and Ignition Probability Weather (IPW) Enhancements
013	MDRA	Data Request No. 14	MDRA_Data Request No. 14	3	MDRA_Data Request No. 14_03	<p>Please provide the full cause (as reported to the CPUC) for the ignitions that occurred on the DCC-enabled conductors.</p>	Joseph Michal	5/2/2024	5/7/2024	5/7/2024	https://www.epa.gov/permits/permits/colm/colm-2023-014-03	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-25 Fire Potential Index (FFI) and Ignition Probability Weather (IPW) Enhancements

636	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	5/24/2024	CPUC - SPD (Safety Policy Division)_014_05102403	<p>Provide number of A, B, X, E, F for Asset, Ground and Post-Tension Tests found during inspections in 2023, and 2024 broken down by FID and over FID. Include number of inspections and include for each type. Submit the same information in the same format as Table RN PG&E 23 04 7 (attached in email) for 2023 and 2024 from PG&E's 2023-2024 Wildlife Migration Plan Supplemental Information to Request Notice. e-tag provides the actual tag IDs rather than "Forecast Tag FIDs." Indicate if inspections or plans were used for any of the actual inspections.</p>	Henry Swast	5/14/2024	7/26/2024	7/26/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_05102403.pdf	0	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
637	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	6	CPUC - SPD (Safety Policy Division)_014_06	<p>Explain tag re-prioritization oversight process where an inspector's initial prioritization is changed.</p> <p>a. Provide the number of tags in 2024 found during inspections where the inspector identified A, X, and B tags where the tag was re-prioritized to a less urgent priority, and which priority it was re-assigned.</p> <p>b. Provide inspection reports and work orders, including all photos, for the last 10 created tags found during inspections for each of A, X, and B tags where the tag was re-prioritized to a less urgent priority.</p> <p>c. Provide a list of all tags found in April during inspections where the inspector identified A, X, and B tags where the tag was re-prioritized to a less urgent priority. This list should include (1) the notification number, (2) the date each tag was found, (3) the original priority, (4) the changed priority and (5) a description of the finding.</p>	Henry Swast	5/14/2024	5/31/2024	5/28/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_06102406.pdf	3	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
637	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	6/6	CPUC - SPD (Safety Policy Division)_014_06/6	<p>Explain tag re-prioritization oversight process where an inspector's initial prioritization is changed.</p> <p>a. Provide the number of tags in 2024 found during inspections where the inspector identified A, X, and B tags where the tag was re-prioritized to a less urgent priority, and which priority it was re-assigned.</p> <p>b. Provide inspection reports and work orders, including all photos, for the last 10 created tags found during inspections for each of A, X, and B tags where the tag was re-prioritized to a less urgent priority.</p> <p>c. Provide a list of all tags found in April during inspections where the inspector identified A, X, and B tags where the tag was re-prioritized to a less urgent priority. This list should include (1) the notification number, (2) the date each tag was found, (3) the original priority, (4) the changed priority and (5) a description of the finding.</p>	Henry Swast	5/14/2024	6/13/2024	6/13/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_06102406.pdf	1	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
638	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	7	CPUC - SPD (Safety Policy Division)_014_07	<p>Provide the count of tags for each tag type in 2024 where an existing tag was re-prioritized to a more urgent priority and the priority to which it was re-assigned due to an inspection.</p>	Henry Swast	5/14/2024	5/28/2024	5/28/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_07102407.pdf	0	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
639	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	8	CPUC - SPD (Safety Policy Division)_014_08	<p>What would motivate an inspector to override the prioritization for a tag in the job and increase the priority or deadline?</p> <p>a. In this scenario, what prevents a re-prioritization of the tag during the review by a supervisor or other PG&E employee?</p>	Henry Swast	5/14/2024	5/28/2024	5/28/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_08102408.pdf	0	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
640	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	9	CPUC - SPD (Safety Policy Division)_014_09	<p>When does the field engineer get involved with addressing a high (A, X, B) priority tag? Provide examples.</p> <p>a. Describe the role of field engineers in the process to resolve an asset safety issue.</p>	Henry Swast	5/14/2024	5/28/2024	5/28/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_09102409.pdf	0	NA	8	8.0 Wildlife Mitigations	8.1.3 Asset Inspections
641	CPUC - SPD (Safety Policy Division)	014	CPUC - SPD (Safety Policy Division)_014	10	CPUC - SPD (Safety Policy Division)_014_010	<p>Discuss the process for updating the Distribution Inspection Job Aid.</p> <p>a. What is the process?</p> <p>b. Who has final say?</p> <p>c. Which technical staff (structural practitioners) or structural engineers reviewed the job aid? Provide their feedback and comments if any, including any email correspondence. Summarize any comments made in meetings discussing the Job Aid.</p> <p>d. Provide meeting notes from meetings discussing changes to Job Aid from the Wildlife Steering Governance Committee, or a similar type of committee governing distribution issues or inspections, provide them.</p>	Henry Swast	5/14/2024	5/28/2024	5/28/2024	https://www.pge.com/Portals/0/Utilities/etags/etags/CPUC_SPD_014_010102410.pdf	8	NA	11.4	Appendix D - Assets for Continued Improvement	11.4 ACI PG&E 23-09 Decision on Detailed Distribution Inspections

642	OEIS	021	OEIS_021	1	OEIS_021_01	Regarding PG&E's 2025 Distribution Reliability GH11 Risk Impact: A. Is table B-3 of PG&E's 2023-2025 WMP. Page 4 of 7. Risk Impact in 2025 for include GH11? PG&E also show that it is not looking at underlying workloads? Please explain how PG&E calculated the 4.7% risk impact for GH11 given the 2025 workloads were not included in the WMP submission. Provide all supporting documentation necessary to justify the 4.7% risk impact for include GH11 in 2025.																			
643	CPUC - SPD (Safety Policy Division)	015	CPUC - SPD (Safety Policy Division)_015	1	CPUC - SPD (Safety Policy Division)_015_01	7. In preparing these files: Date Report: California, 04-10-2024 Date Report: California, 04-10-2024 Date Report: April 8, 2024 Date of Response to Date Review: April 29, 2024 PG&E Document No. or Title: WMP_Discovery2023-2025_DR_California_04-10-202401CONF.jp WMP_Discovery2023-2025_DR_California_04-10-202401CONF.jp WMP_Discovery2023-2025_DR_California_04-10-202401CONF.jp																			
644	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	1	CPUC - SPD (Safety Policy Division)_016_01	In response to ACI PG&E-23-13 - Workload Planning and Resource Allocation to Respond to EPSS Events, Customer Average Transaction Duration Index (CADI) metric: PG&E included customer on average experiencing EPSS outage of 176 minutes in 2022 and 193 minutes in 2023 (WIP note that the CADI score when excluding Mean Event Dura (MED) was 163 minutes for 2022. Was this the correct calculation)? Answer for the statistics on CADI from 2022 to 2023.																			
645	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	2	CPUC - SPD (Safety Policy Division)_016_02	Generally, what is PG&E's corporate process and strategic procedure for switching to a new model to support advanced metering regulatory requirements (e.g., migrating from WDRM to WDRM+)? What are the key risks?																			
646	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016_03	3	CPUC - SPD (Safety Policy Division)_016_03	Please provide a list of all memorandum (memo) and balancing accounts where WMP costs are currently being recorded as of May 31, 2024. A. In each of the memorandum and balancing accounts where WMP costs are being recorded provide the current WMP cost balance as follows (if future years (e.g., 2025) are expected to use memo accounts, add columns and data for them as well): Year 2020 2021 2022 2023 Recorded Account Capital Expenditure (S) Recorded Account Capital Expenditure (I) Authorized GRC Capital Expenditure (S) Authorized GRC Capital Expenditure (I) B. Regarding planning for work with budgeting for future years, how does PG&E use its memo and balancing accounts with respect to ensuring accountability, tracking, and reporting?																			
647	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016_04	4	CPUC - SPD (Safety Policy Division)_016_04	Please provide GIS data that show progressive sectionalization of EPSS-enabled circuits: a. Data description of circuits from January 1, 2020 b. Data description of circuits from January 1, 2021 c. Data description of circuits from January 1, 2022 d. Data description of circuits from January 1, 2023 e. Data description of circuits from January 1, 2024																			
647	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016_04b	4b	CPUC - SPD (Safety Policy Division)_016_04b	Please provide GIS data that show progressive sectionalization of PPS-enabled circuits: a. Data description of circuits from January 1, 2020 b. Data description of circuits from January 1, 2021 c. Data description of circuits from January 1, 2022 d. Data description of circuits from January 1, 2023 e. Data description of circuits from January 1, 2024																			
648	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016_05a	5a	CPUC - SPD (Safety Policy Division)_016_05a	Please provide GIS data that show progressive sectionalization of PPS-enabled circuits: a. Data description of circuits from January 1, 2020 b. Data description of circuits from January 1, 2021 c. Data description of circuits from January 1, 2022 d. Data description of circuits from January 1, 2023 e. Data description of circuits from January 1, 2024																			
649	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016_06	6	CPUC - SPD (Safety Policy Division)_016_06	PG&E describes in "WMP_Discovery2023-2025_DR_California_04-10-202401CONF" a brief description of "Critical Attributes" and "Confidence Attributes" used to define pass rates. For the following categories: Vegetation Management for Operations, Distribution Reliability, Distribution Second Party, Tree Inspections, Vegetation Management for Operations, Fire Prevention, Fire Inspection (FI), Transmission, Pole Climbing and Field Quality Control (FCQ). a. Provide the criteria for "Critical Attributes" evaluated by QA/QC Inspectors for each Vegetation Program. b. Provide the criteria for "Confidence Attributes" evaluated by QA/QC Inspectors for each Vegetation Program. c. Provide three examples of "Confidence Attributes" evaluated by QA/QC Inspectors for each Vegetation Program. d. Define the criteria necessary for the "critical pass rate" for each Vegetation Program. Comment on how it relates to "critical attributes" and "confidence attributes". e. Provide the criteria necessary for the "DC and QC Inspectors to record information for each Vegetation Program." f. Describe how an attribute is determined as successful and then aggregated up to the pass rates for Vegetation Program. g. Define "Locations" as used in Table B-14 (Renewed) and Table B-14.2 (New). h. Explain when DC or QA would have different criteria for evaluation and discuss how this manifests in the pass rates for DC or QA. Provide examples where work was done by DC or QA and the results. i. "WMP_Discovery2023-2025_DR_California_04-10-202401CONF" states the pass rates as "Final Planning responses for Critical and Confidence Attributes divided by (Final Responses for Critical and Confidence Attributes minus N/A responses)." j. Provide the best-completed QA/QC results for Distribution Reliability that include a finding. k. Provide the best-completed QA/QC results for Distribution Reliability that include a finding. l. Provide the best-completed QA/QC results for Distribution Reliability that include a finding. m. Provide the best-completed QA/QC results for Distribution Reliability that include a finding.																			

654	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	11	CPUC - SPD (Safety Policy Division)_016_011	<p>Discuss how work orders are handled.</p> <p>a. If there is an area selected for bundling, explain whether all or only a partial set of work orders is addressed in a bundling project.</p> <p>b. How are the remaining work orders not addressed by the bundled project being addressed?</p> <p>c. Are there different types of bundling projects?</p> <p>d. How do the projects differ from the bundling?</p> <p>e. How are work orders near their completion deadline handled when bundled?</p> <p>f. Would bundling work orders either be recorded as being completed or not?</p> <p>g. How are work orders created for bundling projects, or are the existing work orders used?</p> <p>h. How would a situation be addressed where a contractor had to do a bundling project from multiple work orders already completed due to poor work, such as emergency storm work, but were erroneously included in the bid?</p> <p>i. Would PG&E still pay for the work, or would the contractor need payment, or to be would the contractor not charge for the work orders erroneously included in the bid?</p>	<p>The remaining notifications will be addressed during the annual work planning cycle.</p> <p>The use of multiple levels of bundling projects when comes to bundling jobs and non-pole priority E and F overhead HTDF&A EC notifications (when bundling an area, as well as when possible with other notification types) is an area consists of both HTDF and non-HTDF notifications. The non-HTDF notifications may not be addressed within the bundling project. In addition, a bundled notification may not be associated with the bundle if there are external contractors, for instance customer access or permitting requirements that are unique to only a small portion of the bundle some of the notifications might be removed from the bundle to allow execution of the rest of the notifications.</p> <p>Circuit-level bundles are usually much larger consisting of over 100 notifications and include multiple weeds to execute while isolation zone bundles are smaller and are executed in one to a few days typically.</p> <p>Circuit-level bundles are project managed while single isolation zone bundles are managed within the division and related work orders.</p> <p>The majority of the circuit-level bundles are resourced by contract partners while single isolation zone bundles are resourced through the normal work and resource planning process.</p> <p>Circuit-level bundles are forecasted to be more efficient to execute as PG&E can bundle more activities increasing throughput with the same amount of resources.</p> <p>Bundles are developed through PG&E's annual planning process and are prioritized based on risk reduction and feasibility with an emphasis on bundling jobs and non-pole priority E and F overhead HTDF&A EC notifications. With increased HTDF&A EC notifications, bundles are developed with the following considerations:</p>	Henry Swast	5/30/2024	6/4/2024	6/4/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053001	0	NA	8	Section 8.1.7 - Open Work Orders	8.1.7.2 Open Work Orders - Distribution Tags	
655	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	12	CPUC - SPD (Safety Policy Division)_016_012	<p>What is PG&E's Fall Start for addressing work orders?</p> <p>a. What factors are the most common for a fall start?</p>	<p>PG&E is completing the response per clarification from the Safety Policy Division that "take start" are situations when jobs occur after 4:30 PM and are unable to complete the job as scheduled.</p> <p>For Planned Electric Distribution Maintenance work, Major Work Categories 07, 2A, and 4A, PG&E's schedule adherence rate for January 2024 to June 30, 2024, is 95%. 2,297 units were completed, and 10,875 units were not completed. Of the 10,875 units not completed, 1,075 units (10%) is the rate of the units that would be considered not completed due to take start.</p> <p>From this year's data, the most common factors for a fall start are:</p> <p>Additional time required (unforeseen field conditions) (2.5%)</p> <p>Clearance not set (1.1%)</p> <p>Field conditions changed (4.8%)</p> <p>Miscalculated hours of effort (0.2%)</p> <p>No USA (0.1%)</p> <p>Field decision not to work (0.9%)</p> <p>Contractor field decision not to work (0.9%)</p> <p>Overall, the three highest factors for not meeting schedule adherence are: Emergency, Incident Weather, and Rest Period. These factors for not completing against schedule are typically determined prior to a crew arriving at a job site and not being able to complete the work as scheduled.</p>	Henry Swast	5/30/2024	6/13/2024	6/13/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053002	0	NA	8	Section 8.1.7 - Open Work Orders	8.1.7.2 Open Work Orders - Distribution Tags	
656	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	13	CPUC - SPD (Safety Policy Division)_016_013	<p>The following questions reference information from the provided in response to the previous Data Request CPUC - SPD (Safety Policy Division)_004</p> <p>a. Provide an updated version of "WMP-Distribution2023_DR_SPD_016-Q014AS01.docx" that includes the data from 2023 and any adjustments since the previous submission made to update data in previous years by PG&E. b. "WMP-Distribution2023_DR_SPD_016-Q014AS01.docx" indicates 49 CPUC-responsible ignitions occurred during R3, R4, or R5 (R4) conditions in 2022. The spreadsheet also states in 2022 there were 3,472,209 Overhead Circuit Mile Days (CMDs) in R3, R4, or R5 conditions. Dividing 49 ignitions by 3,472,209 CMDs (100,000 means an ignition rate of 1.41 ignitions per 100,000 CMD R3-R5 conditions). The DSM indicated a response graph which indicates the ignition rate was 1.03 when SPD and/or other data was produced by PG&E (see Figure 3 on page 6 of the Q1-Q2 DSM report, available at PG&E Information Safety Report (ISR) (gov)). The net ignition rate after (the rate also appears to differ from other ignition rates compared in the following table), but explain how similar units and presumably the same methodology or data sources over the other table. Do you disagree, and if so, how? c. Provide a different methodology or data source over the other table. Do you disagree, and if so, how? d. Explain the difference and the advantages of one methodology or data source over the other.</p> <p>Data requested by CPUC - SPD (Safety Policy Division)_004</p> <p>FFI</p> <p>Ignition Rate</p> <p>R3</p> <p>R4</p> <p>R5</p> <p>Total (R4)</p> <p>2022</p> <p>2023</p> <p>2024</p> <p>1.41</p> <p>Ignitions in HTDF&A</p> <p>21</p>	<p>PG&E is internal methodology for calculating the results of the metrics from 2022 yielded 0.95 R3-R5 ignitions per circuit mile. The graph clearly shows the DSM analysis where the cumulative circuit mile day total used as the denominator represented the total number of circuit miles in R3-R5 conditions calculated at the Five Index Area (FIA) level. PG&E's internal methodology uses the cumulative circuit mileage associated with an FFI value calculated for each circuit mile, a more granular approach.</p> <p>The circuit-specific circuit mileage data was unavailable at the time of the DSM's analysis.</p> <p>PG&E's internal approach of calculating the ignitions and cumulative circuit miles associated with the FFI calculated for each independent circuit mile greater and better representation of the risk associated (in terms of high FFI ignitions in safety places) versus the exposure for that risk in that period. In addition, the circuit-level values better align with our operational obligations (for example, when we would enable EPSS protection).</p>	Henry Swast	5/30/2024	6/4/2024	6/4/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053003	0	NA	8	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increases in Risk Events
657	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	14	CPUC - SPD (Safety Policy Division)_016_014	<p>SPD understands PG&E recently attended the 2024 Annual Conference International Wildfire Risk Mitigation Consortium (iwrmc.com). Provide all presentations from that conference and provide the Conference program/agenda.</p>	<p>The International Wildfire Risk Mitigation Consortium 2024 Annual Conference agenda is provided here: https://www.iwrmc.com/2024-annual-conference-agenda/</p> <p>Please see below table for presentations made by PG&E employees and which are attached to this response. Agenda Item: The Attachment Name</p> <p>Learning L&AR to Identify a Major Risk Associated with Low Hanging Communication Lines</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p> <p>Panel Discussion & Roundtable Q&A: EPSS Evaluation</p> <p>PG&E Wildfire Risk Models - Overview & Incorporation of Egress, Depression, and Internal Resources</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p> <p>Wildfire Risk Mitigation - Overview & Incorporation of Egress, Depression, and Internal Resources</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p> <p>Wildfire Risk Mitigation - Overview & Incorporation of Egress, Depression, and Internal Resources</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p> <p>WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF.pdf</p>	Henry Swast	5/30/2024	6/4/2024	6/4/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053004	6	NA	8	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increases in Risk Events
657	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	14b	CPUC - SPD (Safety Policy Division)_016_014b	<p>SPD understands PG&E recently attended the 2024 Annual Conference International Wildfire Risk Mitigation Consortium (iwrmc.com). Provide all presentations from that conference and provide the Conference program/agenda.</p>	<p>Here is a copy of the IWRMC Ad hoc Conference agenda that we can share with you. Unfortunately, the presentations made during the conference are all proprietary to the individual companies that presented them. We are precluded by NDA from releasing them to non-member entities.</p> <p>EC Sources and our partner firms are deeply committed and proud to be associated with the International Wildfire Risk Mitigation Consortium (IWRMC). Over the past 4 years, we have been bringing the safety community, consultants, engineering firms and technology vendors, as well as key external stakeholders such as Universities, Emergency response, Land Management, Forestry and other agencies, together to address the existential threat of wildfire and broader climate change.</p> <p>The mission of the program is to accelerate learning and sharing of best practices among industry participants, to gather and share research, ideas, strategies and experiences from around the world, and to focus the activities and initiatives of program members on those areas and challenges that offer the greatest leverage in effectively and economically reducing wildfire risk.</p> <p>We believe that Regulations and sound regulation are critically important to enabling the industry to successfully navigate the complex set of challenges. It would be pleased to share risk information about the program with SPD if you wish for PG&E to facilitate scheduling this discussion.</p> <p>Please let us know if a copy of the communications from IWRMC.</p> <p>Dear SPD,</p>	Henry Swast	5/30/2024	6/7/2024	6/7/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053005	1	NA	8	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increases in Risk Events
658	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	15	CPUC - SPD (Safety Policy Division)_016_015	<p>These questions are based off the Pole Loading Assessment work described in Section 8.1.3.4 of "The Risk, 20240401110046_PGE%20-%202023%20-%20WMP_Mitigation_Plan_Review_5.pdf"</p> <p>a. Provide summary statistics for the pole loading calculations already performed including:</p> <p>i. Number of poles calculated remaining in the HTDF</p> <p>ii. Number of poles where the calculated safety factor was less than the safety factor specified by GO-95, Rule 44.1, Table 4 in the HTDF</p> <p>iii. Number of poles where the calculated safety factor was less than the safety factor specified by GO-95, Rule 44.2 in the HTDF</p> <p>iv. Number of poles where the calculated safety factor was less than the safety factor specified by GO-95, Rule 44.3 in the HTDF despite no strength deterioration being incorporated into the calculation.</p> <p>b. Provide an updated completion date for the program for both HTDF and non-HTDF areas.</p> <p>c. How are the calculated safety factors less than the safety factor specified by GO-95, Rule 44.1, Table 4 or GO-95, Rule 44.2, Tables 4 and 3, respectively when the calculated safety factor for a pole is less than the safety factor specified by GO-95, Rule 44.3.</p> <p>d. Discuss calculations performed on resources and conductors, and provide similar data as requested in part (a).</p> <p>e. Provide "WMP-Distribution2023_DR_Calculations_2023-06060402CONCF.pdf" if any of these poles calculations does not include a pole calculation with a short span, provide a productivity/creep pole calculation with a short span.</p> <p>f. How do the results from the traditional and modernized pole calculations compare to the calculations performed on the pole?</p>	<p>The Pole Loading Assessment (PLA) Program began in 2020 and conducted a design-based assessment of the pole loading by utilizing the pole attributes from EGIS and L&AR data. The PLA Program is above and beyond the requirements of Rule 44.1, but also includes work in 2020 and 2021 to update the PLA Program to use the most up-to-date information on reconstruction and replacement of existing poles.</p> <p>The PLA design-based assessments are performed by a team of data analysts. These assessments highlighted higher risk areas that need further engineering attention. The higher risk areas are currently being prioritized for a comprehensive engineering analysis (which includes field validation, where needed). Once this analysis is completed, we will have the Safety Factors (SF) for the poles.</p> <p>The PLA Program completed design-based assessments on approximately 530,000 poles in HTDF areas. The pole loading for the remaining poles in HTDF areas has been assessed through other programs, such as system balancing.</p> <p>The poles are remaining in HTDF areas for the PLA Program.</p> <p>PG&E is currently performing the highest data for a comprehensive engineering analysis (which includes field validation, where needed) for the poles. The requested SFs are not yet available but will be available after the analysis is complete.</p> <p>We will use the response to (part a)(i) above which explains our process and why the requested information is not yet available.</p> <p>We will use the response to (part a)(ii) above which explains our process and why the requested information is not yet available.</p> <p>We will use the response to (part a)(iii) above which explains our process and why the requested information is not yet available.</p> <p>We will use the response to (part a)(iv) above which explains our process and why the requested information is not yet available.</p> <p>PG&E has no targeted assessment poles in non-HTDF areas.</p> <p>PG&E has no targeted assessment poles in non-HTDF areas. An added in (part a)(v), PG&E has no targeted assessment poles in non-HTDF areas.</p>	Henry Swast	5/30/2024	6/13/2024	6/13/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053006	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3.2 a L&AR Based Pole Loading Assessments	
659	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	16	CPUC - SPD (Safety Policy Division)_016_016	<p>CONFIDENTIAL - Provide the data in excel format used to create the chart in slide 2, 5, 6, 9 of the presentation to the Safety Policy Division Committee presented on October 12, 2023 (sent to SPD as "WMP-Distribution2023_DR_SPD_016-Q014AS01CONCF")</p>	<p>Please see attachment "WMP-Distribution2023-2025_DR_SPD_016-Q014AS01.docx" for the requested information.</p>	Henry Swast	5/30/2024	6/13/2024	6/13/2024	https://www.pge.com/Forms/Feedback/Feedback.aspx?FeedbackID=2024053007	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 - Discuss in Detail Distribution Inspections	

660	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	17	CPUC - SPD (Safety Policy Division)_016_017	CONFIDENTIAL - This inspection refers to the table labeled "AQD Population: B-Fed Rates" on slide 29 of the presentation to the Wildlife Risk Governance Committee presented on October 12th, 2023, used to SPD's "Wildlife Risk Governance 2023-2025 DR_SPD_014-016 (A)CONFIRM". Provide an explanation of the table. Specifically discuss the difference between a CRT aligned B tag versus those found by an aerial inspection. Provide an explanation of the table. b. Define a "CRT aligned B tag" and discuss the difference between a CRT aligned B tag versus those found by an aerial inspection. c. Provide the actual number of tags identified by Ground and Aerial inspections in the table. d. Provide the count number of tags identified by Aerial (i.e. those tags not identified by Aerial and not identified by Ground inspections) in the table. e. For "Concern Designated/B" tags, the table entry that of the 53 B-tags found in the sample, that Aerial Inspectors identified 25-75% of the B-tags and that Ground Inspectors identified 25-50% of the B-tags? Does this mean a minimum of 13, and a maximum of 26 of the 53 tags were identified by Ground and not identified by Aerial? f. What are the metrics used for the table?	Henry Swast	5/30/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 43--26 Evolving in Detailed Distribution Inspections
661	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017	1	CPUC - SPD (Safety Policy Division)_017_021	SPD understands PG&E has updated its EPSSS embedded criteria since publishing FIGURE PG&E 1.8.2 in the PG&E 2023-2025 Wildlife Mitigation Plan per page 133 of PG&E 2025 WMP Update. Please provide updated WMP update to FIGURE PG&E 1.8.2 and describe the changes.	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
662	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017_022	2	CPUC - SPD (Safety Policy Division)_017_022	What did this change table affect?	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
663	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017_023	3	CPUC - SPD (Safety Policy Division)_017_023	Please provide a table which shows the number of Circuit Mile Days where EPSSS is enabled for 2022 and 2023 for the criteria in FIGURE PG&E 1.8.2 compared to the new criteria. Additionally, provide the expected number of Circuit Mile Days where EPSSS will be enabled for both criteria for a typical year.	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
664	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017_024	4	CPUC - SPD (Safety Policy Division)_017_024	Describe the reason for the changes.	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
665	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017_025	5	CPUC - SPD (Safety Policy Division)_017_025	Compute the additional risk reduced (or increased) due to the changes in criteria. The computation should account for lower probability of fire at lower FT levels. Compute the additional risk reduced due to increased (or reduced) due to the distribution outages due to the change in criteria.	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
666	CPUC - SPD (Safety Policy Division)	017	CPUC - SPD (Safety Policy Division)_017_026	6	CPUC - SPD (Safety Policy Division)_017_026	Provide the analysis referenced in ACI PG&E 23-26 which compares the risk associated with EPSSS embedded thresholds, SPD understand the analysis shows a demonstration of risks only between reliability and wildfire risk. Provide the analysis provided with the RAMP filing, and would like to see the more detailed FPA based analysis.	Henry Swast	6/10/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
667	OEIS	022	OEIS_022	1	OEIS_022_01	Regarding Monitoring Potential Hazards "For the FT program, the One VM application is not set up to document potential defects or issues with inventory only. Inspectors prescribe walkouts of potential defects, or issues, and would like to see this to be set up to be 15 minutes. Provide the analysis referenced in ACI PG&E 23-26 which compares the risk associated with EPSSS embedded thresholds, SPD understand the analysis shows a demonstration of risks only between reliability and wildfire risk. Provide the analysis provided with the RAMP filing, and would like to see the more detailed FPA based analysis.	Brad Bell	6/1/2024	6/1/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
668	CaPA	Set WMP-49	CaPA_Set WMP-49	1	CaPA_Set WMP-49_01	How did PG&E come up with the 25 random numbers when it did so on the 25 of 50 fast stop outages to be prevented?	Tyler Hochstadt	6/1/2024	6/27/2024	6/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
669	OEIS	023	OEIS_023	1	OEIS_023_01	Regarding PG&E's distribution asset inspection initiatives and pilot. a. Provide the number of inspections performed and find of level 1 and 2 conditions from January 1, 2020, to December 31, 2023, for the following inspection initiative or pilot programs. If the inspection initiative or pilot program began after January 1, 2020, please specify the start date of the initiative in the response. i. LUDAR based pole loading assessments ii. Aerial inspections iii. Corrosion assessment iv. Conductor measurement v. Obsolete pole inspections vi. Corona inspections vii. Conductor climbing assessment viii. Discharge sampling and testing ix. LUDAR assessment x. Climbing detailed inspections xi. Aerial inspections b. For each inspection initiative or pilot below, please provide the estimated percentage of conditions that PG&E levels that were identified through related ground, ground, or remote pole inspections. Describe how PG&E calculated the estimated percentage. i. Inland inspections ii. LUDAR based pole loading assessments iii. Aerial inspections	Nathan Poon	6/20/2024	7/1/2024	7/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	8	Section 8.1.3 - Asset Inspection	Section 8.1.3 - Asset Inspection
670	OEIS	023	OEIS_023	2	OEIS_023_02	Regarding PG&E's transmission asset inspection initiatives and pilot. a. Provide the first use of level 1, level 2 conditions and number of inspections performed from January 1, 2020, to December 31, 2023, for the following inspection initiative or pilot programs. If the inspection initiative or pilot program began after January 1, 2020, please specify the start date of the initiative in the response. i. Aerial detailed inspections ii. Inland inspections iii. Conductor measurement iv. Obsolete pole inspection v. Corona inspections vi. Conductor climbing assessment vii. Discharge sampling and testing viii. LUDAR assessment ix. Climbing detailed inspections x. Aerial inspections	Nathan Poon	6/20/2024	7/1/2024	7/1/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	8	Section 8.1.3 - Asset Inspection	Section 8.1.3 - Asset Inspection
671	CaPA	Set WMP-50	CaPA_Set WMP-50	1	CaPA_Set WMP-50_01	The Filipez Energy Partners' PG&E Independent Safety Monitor Status Update Report, October 6, 2023 (ISM Report) stated that there were 1,400 action items in the Multiple Change Review and Evaluation (MCRE) to 2022. However, in 2023 WMP data request CaPA/roscap PG&E 2023WMP-34, Question 1, there are apparently 900 action items listed. Please explain the discrepancy.	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	8.1.8.1	Grid Operations and Procedures	Protective Equipment and Device Settings
672	CaPA	Set WMP-50	CaPA_Set WMP-50	2	CaPA_Set WMP-50_02	In response to Data request CaPA/roscap-PGE-2023WMP-34, Question 1, PG&E states, "No additional action required" for 36 circuits in 2022. Please explain why no additional action was required.	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
673	CaPA	Set WMP-50	CaPA_Set WMP-50	3	CaPA_Set WMP-50_03	Data request CaPA/roscap-PGE-2023WMP-34, Question 3, Attachments 1 and 2 show claims and complaints received from 5/19/2023 to 1/31/2023. Please provide an Excel sheet of claims and complaints filed to customers related to outages on circuits with EPSSS settings enabled at the time of outage that were received in 2021, 2022, 7/1/2023 to 5/18/2023, 12/1/2023 to 1/31/2023. For each claim and complaint, provide the following information in separate columns: a) The Circuit name and ID associated with the complaint. b) Description of each complaint or claim. c) Resolution of each complaint or claim. d) Due date of each resolution. e) Actual completion date of each resolution.	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	2	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
674	CaPA	Set WMP-50	CaPA_Set WMP-50	4	CaPA_Set WMP-50_04	Data request CaPA/roscap-PGE-2023WMP-34, Question 3, Attachments 1 and 2 show claims and complaints received from 5/19/2023 to 1/31/2023. Please provide an Excel sheet of claims and complaints filed to customers related to outages on circuits with EPSSS settings enabled at the time of outage that were received in 2021, 2022, 7/1/2023 to 5/18/2023, 12/1/2023 to 1/31/2023. For each claim and complaint, provide the following information in separate columns: a) The Circuit name and ID associated with the complaint. b) Description of each complaint or claim. c) Resolution of each complaint or claim. d) Due date of each resolution. e) Actual completion date of each resolution.	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS
675	CaPA	Set WMP-50	CaPA_Set WMP-50	5	CaPA_Set WMP-50_05	Data request CaPA/roscap-PGE-2023WMP-34, Questions 9 and 10, PG&E states that Garberville 110 kV and Clear 110 kV had been installed "identified as a proactive strategy to both minimize wildfire risk while also providing reliability improvement benefits under EPSSS embedded thresholds." Please provide an excel sheet of circuits that PG&E identified that might need proactive measures to address EPSSS embedded thresholds. b) Please provide the criteria PG&E used to determine which circuits might need proactive measures for reliability improvement under EPSSS embedded thresholds.	Amenda Asadi	6/24/2024	7/19/2024	7/19/2024	https://www.pge.com/~/media/Files/CPUC/CPUC%20-%202023%20-%202025%20-%20DR_SPD_014-016%20-%20A%20CONFIRM.pdf	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E 23--26 Evaluation and Reporting of Safety Impacts Relating to EPSS

676	CAFA	Set WMP-50	CAFA_Set WMP-50	6	CAFA_Set WMP-50_06	<p>Provide an Excel table that lists (see rows) each sustained outage that occurred from January 1, 2021 through December 31, 2023 on any of the circuits identified in your response to Question 5 of data request CA/Arconex/PG&E-2023WMP-04. For each outage, the Excel table should include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalArconex_055-0006A601.xlsx" for the requested information. Please note, column H indicates if the outage was sustained or non-sustained.</p>	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
677	CAFA	Set WMP-50	CAFA_Set WMP-50	7	CAFA_Set WMP-50_07	<p>Provide an Excel table that lists (see rows) each momentary outage that occurred from January 1, 2021 through December 31, 2023 on any of the circuits identified in your response to Question 5 of data request CA/Arconex/PG&E-2023WMP-04. For each outage, the Excel table should include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalArconex_055-0006A601.xlsx" for the requested information. Please note, column H indicates if the outage was sustained or non-sustained.</p>	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
678	CAFA	Set WMP-50	CAFA_Set WMP-50	8	CAFA_Set WMP-50_08	<p>Provide an Excel table that lists (see rows) each sustained outage that occurred from January 1, 2021 through December 31, 2023 on the following circuits: SCE REFUGIO 1101, SCE VEGAS 1102, SCE TEJON TR 1101, SCE TENCHAP 1101, SCE MCFLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, VASONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1004, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZAS 0401, ORINDA 0401, SPENCE 1101. For each outage, the Excel table should include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalArconex_055-0006A601.xlsx" for the requested information. Column H indicates if the outage was sustained or non-sustained.</p>	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
679	CAFA	Set WMP-50	CAFA_Set WMP-50	9	CAFA_Set WMP-50_09	<p>Provide an Excel table that lists (see rows) each momentary outage that occurred from January 1, 2021 through December 31, 2023 on the following circuits: SCE REFUGIO 1101, SCE VEGAS 1102, SCE TEJON TR 1101, SCE TENCHAP 1101, SCE MCFLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, VASONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1004, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZAS 0401, ORINDA 0401, SPENCE 1101. For each outage, the Excel table should include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalArconex_055-0006A601.xlsx" for the requested information. Please note, column H indicates if the outage was sustained or non-sustained.</p>	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
680	CAFA	Set WMP-50	CAFA_Set WMP-50	10	CAFA_Set WMP-50_10	<p>Provide an Excel spreadsheet of the following distribution circuits (see rows): SCE REFUGIO 1101, SCE VEGAS 1102, SCE TEJON TR 1101, SCE TENCHAP 1101, SCE MCFLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, VASONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1004, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZAS 0401, ORINDA 0401, SPENCE 1101. Include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalArconex_055-0006A601.xlsx" for the requested information.</p>	Amenda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
681	CAFA	Set WMP-51	CAFA_Set WMP-51	1	CAFA_Set WMP-51_01	<p>Provide an Excel spreadsheet of the following distribution circuits (see rows): SCE REFUGIO 1101, SCE VEGAS 1102, SCE TEJON TR 1101, SCE TENCHAP 1101, SCE MCFLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, VASONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1004, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZAS 0401, ORINDA 0401, SPENCE 1101. Include the following information in separate columns:</p> <p>(A) Outage ID (B) Circuit Name (C) Cause (D) Was EPSS enabled on this circuit at the time of the outage? (E) Pkgs. From No Light (F) Outage End Day & Time (G) CSED Count of Customers Experiencing Sustained Outages (H) Customer Minutes (I) Case (J) Restoration Time (Minutes)</p>	<p>As described in our WMP Section 8.1.2.2, PG&E's underground workshop analyzes weather. Project schedules can change because of project dependencies, such as permitting and easement delays. Further, the workshop evolved to account for the 2023 QDR. Below describes the changes qualitatively made between when the worksheets were submitted between April 5 and July 5.</p> <p>(A) The July 5 table incorporates miles from Greenlake Community Rebuild projects. These projects were inadvertently missing from all versions of the summary table since the July 5 table.</p> <p>(B) The change was driven by seven project shifting schedules from 2024 to 2025 and one from 2024 to 2026.</p> <p>(C) As with subpart (A), the July 5 table incorporates miles from Greenlake Community Rebuild projects. These projects were inadvertently missing from all versions of the summary table prior to the July 5 version.</p> <p>(D) The change was driven by two projects shifting schedules from 2024 to 2025.</p> <p>(E) The change was driven by one project shifting schedule from 2024 to 2025.</p> <p>(F) The primary driver in the reduction of miles for 2025-2026 is the need to align the workshop to the 2023-2025 GPC mileage targets. These changes include removing existing projects and adding new projects to the GPC risk reduction targets.</p> <p>(G) The change was driven by three Rebuild project schedule changes between 2024 and 2025, and one project moved from 2024 to 2025, and another from 2025 to 2024.</p> <p>(H) This change was driven by the same two projects described in subpart (B), plus one project being removed from the workshop.</p> <p>(I) One four-year project from the April 5 table has been removed from the July 5 table, and 10 mile-long projects were added. Of the 10 mile added, 11 miles are in calculations have been updated in a system of record for the associated projects.</p> <p>(J) This change was driven by the same project described in subpart (i), as well as a single project that was missing from the April 5 table at the time of the July 5 report creation. This will be updated in our system of record and will be included in future versions of the table.</p>	Holly Walzman	7/9/2024	7/12/2024	7/12/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1.1.2 Other grid topology requirements to mitigate or reduce PSPS events - Distribution
682	CPUC - SPD (Safety Policy Division)	018	CPUC - SPD (Safety Policy Division)_018_01	1	CPUC - SPD (Safety Policy Division)_018_01	<p>Submit the 2024 QDR Confidential and Non-Confidential versions (including both spatial and non-spatial) via Kleanix to SPD's Wildlife and Safety Performance Section.</p> <p>The following questions relate to your WMP Quarterly Data Report for Q2 of 2024, Table 13, received on August 2, 2024, which reports weather-related conditions that were open at the end of the reporting period. The following data request seeks information for ALL open work orders in your territory, not only open work orders in High Fire Threat Districts.</p> <p>Please send the following information to each row of Table 13 in separate columns:</p> <p>(A) Name of the associated circuit (B) Geographic latitude in decimal degrees, truncated to seven decimal places (C) Geographic longitude in decimal degrees, truncated to seven decimal places (D) Priority of the original notification, using PG&E's internal priority level codes (E) Object/structure code or other internal description of defect (F) Process ignition risk (Y/N) (G) General Order ID/Exception General (Y/N) (H) Circuit Segment Identification Number (I) Area Date as of July 31, 2024 (Y/N)</p>	<p>Please find the requested 2024 Q2 QDR Spatial and Non-Spatial files attached to this response.</p> <p>(A) OES Cover letter Q2 2024 Submission.pdf (B) PG&E_2024_Q2_Table1-13_R0.xlsx (C) PG&E_2024_Q2_SpatialData.xlsx (D) PG&E_2024_Q2_CONF.xlsx (E) PG&E_2024_Q2_RiskEventPhotos - Ignition_CONF.xlsx (F) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_1.xlsx (G) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_2.xlsx (H) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_3.xlsx (I) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_4.xlsx</p> <p>Please see attachment "WMP-Discovery2023-2025_DR_CalArconex_052-00116017.xlsx" for the requested information.</p> <p>The following table provides information related to the data in the QDR provided to the CPUC in Table 13 (Column 1) in the attachment to the QDR provides the original coding PG&E's internal priority level. Column 2 (Inspection Date) in the attached dataset provides the current subject using PG&E's subpart (j) in the attached dataset provides the current subject using PG&E's subpart (j) in the attached dataset.</p> <p>Considers that the data in ignition risk (responsive to subpart (f)) within HFTD or PG&E High Fire Area (HPFA) are evaluated using a combination of subject/structure codes and individual review during gatekeeping by the Controlled Inspection Team (CIT) and the Ignition Risk Control Team (IRCT). The subject/structure codes can contain both ignition and non-ignition risk conditions and non-HFTD or non-HPFA notifications are not evaluated using a combination of subject/structure codes and individual review during gatekeeping by the Controlled Inspection Team (CIT) and the Ignition Risk Control Team (IRCT). This is only valid for notifications within HFTD or HPFA.</p> <p>PG&E has not responded from the Commission or team created. Formal responses for maintenance tags under General Order (GO) 55, Rule 18. However, PG&E has internally identified maintenance tags that have been identified under maintenance circumstances including those identified under GO 55, Rule 18, which have been noted in Column 1 (Inspection to report note).</p> <p>Notifications are not associated with circuit segments. The Functional Location has been provided for the Circuit Segment Identification Number, located in Column 1 of the attachment.</p>	Henry Sweet	8/22/2024	8/6/2024	8/22/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	9	NA	QDR	NA	NA
683	CAFA	Set WMP-52	CAFA_Set WMP-52	1	CAFA_Set WMP-52_01	<p>The following questions relate to your WMP Quarterly Data Report for Q2 of 2024, Table 13, received on August 2, 2024, which reports weather-related conditions that were open at the end of the reporting period. The following data request seeks information for ALL open work orders in your territory, not only open work orders in High Fire Threat Districts.</p> <p>Please send the following information to each row of Table 13 in separate columns:</p> <p>(A) Name of the associated circuit (B) Geographic latitude in decimal degrees, truncated to seven decimal places (C) Geographic longitude in decimal degrees, truncated to seven decimal places (D) Priority of the original notification, using PG&E's internal priority level codes (E) Object/structure code or other internal description of defect (F) Process ignition risk (Y/N) (G) General Order ID/Exception General (Y/N) (H) Circuit Segment Identification Number (I) Area Date as of July 31, 2024 (Y/N)</p>	<p>Please find the requested 2024 Q2 QDR Spatial and Non-Spatial files attached to this response.</p> <p>(A) OES Cover letter Q2 2024 Submission.pdf (B) PG&E_2024_Q2_Table1-13_R0.xlsx (C) PG&E_2024_Q2_SpatialData.xlsx (D) PG&E_2024_Q2_CONF.xlsx (E) PG&E_2024_Q2_RiskEventPhotos - Ignition_CONF.xlsx (F) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_1.xlsx (G) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_2.xlsx (H) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_3.xlsx (I) PG&E_2024_Q2_InitiativePhotos Log - Asset Inspections_CONF_4.xlsx</p> <p>Please see attachment "WMP-Discovery2023-2025_DR_CalArconex_052-00116017.xlsx" for the requested information.</p> <p>The following table provides information related to the data in the QDR provided to the CPUC in Table 13 (Column 1) in the attachment to the QDR provides the original coding PG&E's internal priority level. Column 2 (Inspection Date) in the attached dataset provides the current subject using PG&E's subpart (j) in the attached dataset.</p> <p>Considers that the data in ignition risk (responsive to subpart (f)) within HFTD or PG&E High Fire Area (HPFA) are evaluated using a combination of subject/structure codes and individual review during gatekeeping by the Controlled Inspection Team (CIT) and the Ignition Risk Control Team (IRCT). The subject/structure codes can contain both ignition and non-ignition risk conditions and non-HFTD or non-HPFA notifications are not evaluated using a combination of subject/structure codes and individual review during gatekeeping by the Controlled Inspection Team (CIT) and the Ignition Risk Control Team (IRCT). This is only valid for notifications within HFTD or HPFA.</p> <p>PG&E has not responded from the Commission or team created. Formal responses for maintenance tags under General Order (GO) 55, Rule 18. However, PG&E has internally identified maintenance tags that have been identified under maintenance circumstances including those identified under GO 55, Rule 18, which have been noted in Column 1 (Inspection to report note).</p> <p>Notifications are not associated with circuit segments. The Functional Location has been provided for the Circuit Segment Identification Number, located in Column 1 of the attachment.</p>	Benjamin Katzenberg	8/19/2024	9/6/2024	9/6/2024	https://www.gcp.com/portal/sgp/055-0006A601.xlsx	1	NA	QDR	NA	NA

Pre-Discovery 04	CaPA	Set WMP-01	CaPA_Sat WMP-01	4	CaPA_Sat WMP-01_Q4	<p>Please identify a copy of all confidential responses to WMP discovery requests, on the same basis that you used the documents to the issue of the discovery request. This includes:</p> <ul style="list-style-type: none"> Confidential responses to WMP discovery requests to Energy Safety; Confidential responses to WMP discovery requests issued by other entities. 	<p>In addition to all general objections, PG&E specifically objects to the request on the grounds that it is unduly burdensome. PG&E further objects to this request for the information requested in the request. PG&E objects to this request on the grounds that it seeks to impose a continuing, recurring obligation on the responding party. Continuing discovery obligations are not permitted under California law. See <i>Stevenson v. Firestone</i>, 124 Cal.App.4th 313 (2004), Code Civ. Proc. § 2030.006(a). Notwithstanding and without waiving these objections, PG&E responds as follows:</p> <p>We will do our best to provide the requested information within the requested timeframe, or as soon as possible thereafter. However, please note that due to the timing and voluminous nature of our submissions to Energy Safety, if you do not always provide us with the information sought within the requested timeframe, it may not be possible to provide the information sought within the requested timeframe. We thank you for your understanding.</p> <p>Relevant information is known to a reasonable certainty.</p> <p>PG&E understands the quantities to be reported from our Internal Quality Control Quality Assurance, and Quality Verification programs as set forth below:</p> <ul style="list-style-type: none"> System Inspection Department Please see the attachment below for the system inspection DC Department's daily and weekly distribution of Performance Indicators (PIs) used analysis. WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf Please note the above attachment contains confidential information. Internal Quality Assurance ISO 14001 Inspections Please see attachment below for the Electric Compliance Quality Management Department's audits of ISO 14001 Inspections. One Distribution and one Transmission system inspections audits were conducted in 2022. Please see attachments: WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf and WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf Please note the above attachment contains confidential information. Vegetation Quality Verification (VQV) The 2022 WMP submission for Vegetation-QV is broken down to the following components: Distribution Reviews, Transmission Reviews, Vegetation Control Reviews, Enhanced Vegetation Management (EVM), and Break-In Audits. Please see the following reports for each of these components. DVVM Work Log (attached as "WV") is a comprehensive log for all VQV reviews completed in 2022 including a summary of findings for each review as well as a detailed report of those findings. 2022 EVM Report, attached as "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" The 2022 WMP submission for Vegetation-QV is broken down by "brands". Final reports are available for brands that have been completed to date. Please see the attached zip file for a total of 37 CA Report Packages: "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.zip" Please note the above attachment contains confidential information. 	Holly Wetmore	2/7/2023	2/14/2023	2/14/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	0	NA	NA	NA	NA
Pre-Discovery 05	CaPA	Set WMP-02	CaPA_Sat WMP-02	1	CaPA_Sat WMP-02_Q1	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/7/2023	3/7/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	6	NA	NA	NA	NA
Pre-Discovery 06	CaPA	Set WMP-02	CaPA_Sat WMP-02	2	CaPA_Sat WMP-02_Q2	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/7/2023	3/7/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	1	NA	NA	NA	NA
Pre-Discovery 07	CaPA	Set WMP-02	CaPA_Sat WMP-02	3	CaPA_Sat WMP-02_Q3	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	2/22/2023	2/22/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	6	NA	8.1.3	Asset Inspections	NA
Pre-Discovery 08	CaPA	Set WMP-03	CaPA_Sat WMP-03	1	CaPA_Sat WMP-03_Q1	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	2	NA	8.1.3	Asset Inspections	Distribution
Pre-Discovery 09	CaPA	Set WMP-03	CaPA_Sat WMP-03	2	CaPA_Sat WMP-03_Q2	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	0	NA	8.1.3	Asset Inspections	Transmission
Pre-Discovery 10	CaPA	Set WMP-03	CaPA_Sat WMP-03	3	CaPA_Sat WMP-03_Q3	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	1	NA	8.1.2	Grid Design and System Hardening	Work Performed in 2022
Pre-Discovery 11	CaPA	Set WMP-03	CaPA_Sat WMP-03	4	CaPA_Sat WMP-03_Q4	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, vendors, cost-approved members, and Independent Evaluators.</p>	<p>Please see attachment "WMP Discovery023_DR_CaPAAnswer_03-0201AA43CONF.pdf" for a list of all alleged defects identified by December 31, 2021 by the Office of Energy Infrastructure Safety (Energy Safety). Please note these defects were listed as "Notification of Defects" in March 2022.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> The data provided for "Defect type", "Description of defect", and "Date that the defect was identified" are all based on Energy Safety's inspection reports. Not all corrective actions required by Energy Safety's Corrective Action (CA) notifications (or "EC" tags). For example, while reviewing the alleged defects from Energy Safety, some work was addressed directly in the field (e.g., trimming of vegetation), and no EC tags were created. This attachment contains confidential information. 	Holly Wetmore	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf https://www.pge.com/legal/gdpr/gdpr/summary/gdpr-ca-pa-answers-03-0201AA43CONF.pdf	1	NA	8.1.2	Grid Design and System Hardening	System Hardening

Pre-Discovery 29	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	4	CAIPA_Sat WMP-06_04	<p>In response to Data Request CAIPA/CAIOPAC-PGE-2022WMP-16, Question 11, March 23, 2022, PG&E created the following "Through 2022, the EVM program includes Alpha field evaluation and loading base mitigation, covering timing and equipment. Starting in 2023, Enhanced VM includes covering loading."</p> <p>a) At the information above on accuracy of the date of this request?</p> <p>b) The answer to part (a) is no; please update the above statement to reflect PG&E's vegetation management strategy for 2024.</p> <p>c) Please add and see as necessary. If any changes in PG&E's vegetation management strategy.</p>								0	NA	2022 WMP 7.3.5	Vegetation Management and Inspections	Program Goals							
Pre-Discovery 30	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	5	CAIPA_Sat WMP-06_05	<p>In response to Data Request CAIPA/CAIOPAC-PGE-2022WMP-16, Question 15, March 18, 2022, PG&E provided the following table, which shows coverage on vegetation management programs in thousands of acres (total covers for 2019-2021 and forecast figures for 2022-2023)</p> <p>Please update the table as follows:</p> <p>a) Update the 2022 column to state actual spending in 2022.</p> <p>b) Update the 2023 column to show PG&E's current forecasts for 2023.</p> <p>c) Add a column that shows PG&E's current forecasts for 2024.</p> <p>d) Please add and see as necessary. If any changes in PG&E's vegetation management strategy have resulted any increases or decreases of acreage.</p>	Please see updated table below with 2023 Actuals, and our current forecasts for 2023 and 2024.										0	NA	Vegetation Management	NA					
Pre-Discovery 31	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	6	CAIPA_Sat WMP-06_06	<p>Please provide a list of any incidents in 2022 where the actions of a VM contractor posed a safety risk to workers and/or the public. "Safety risk" here is defined as any occurrence on a vehicle where the contractor's actions created a safety hazard for other workers or the general public.</p> <p>For each instance, please provide:</p> <ol style="list-style-type: none"> The date any news item related to the safety issue. The date the original work that created the safety issue was performed. Whether the safety issue concerned a transmission or distribution circuit. The vegetation management relative incident in the original work. A brief description of the safety issue incident. 	<p>Please refer to Attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-16" for a list of all contractors involved safety incidents that took place in 2022. This data includes, but is not limited to:</p> <ul style="list-style-type: none"> Contractor Name/Agency; The contractor contact involved in the incident. Incident: The date of the incident. Date EN: The date the incident was formally reported and logged. Division: The division where the incident took place. Inc: Type: The incident type (see the table) Incident Description: A brief description of the incident. <p>Program: Description of what relative a contractor was working on, on the date of incident. <ul style="list-style-type: none"> Contractor Action: A description of the action(s) PG&E took to prevent occurrence. <p>Please note that Distribution and Transmission contractor incidents are included in the attachment. These records are available from the External Contractor Incident Reports (ECIR) database. The ECIR database includes recording of all incidents that do not have a space for reporting Distribution or Transmission circuit information, therefore we are unable to provide this information from the ECIR database.</p> </p>									1	NA	Vegetation Management	NA						
Pre-Discovery 32	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	7	CAIPA_Sat WMP-06_07	<p>In response to Data Request CAIPA/CAIOPAC-PGE-2022WMP-14, Question 13, March 13, 2022, PG&E provided the 2022 system hardening analysis for the categories indicated in a table (below). Please provide an updated version of this analysis with additional columns to show the actual system hardening work performed in each circuit segment in 2023 for all of these categories. Please add rows as needed to cover all circuit segments where PG&E performed system hardening work in 2022 (even if these circuit segments were not included in the original table).</p> <p>a) Installation of overhead conductor</p> <p>b) Installation of underground conductor</p> <p>c) Removal of overhead conductor associated with remote grid work.</p>	<p>Please see Attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-14" for the 2022 system hardening completion work in the below columns.</p> <p>a) Installation of overhead conductor: See column D.</p> <p>b) Installation of underground conductor: See column F.</p> <p>c) Removal of overhead conductor: See column N. This removal work not associated with the lines removed from the scope of installation of underground conductors. It is strictly overhead conductor decommissioned and removed from the system (not underground conductors). The data is broken down by remote grid work in 2022. Since the installation of remote grid generating units work occurred late in 2022, the associated line removal of decommissioned units will take place in 2023.</p>											1	NA	2022 WMP Section 7.3.3.17	Grid Design and System Hardening	System Hardening			
Pre-Discovery 33	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	8	CAIPA_Sat WMP-06_08	<p>Please your worksheet that describes where and when you will perform system hardening on distribution circuits in 2023. For projects that you expect to partially complete in 2023, please include the start and end dates and are expected to continue in 2024, or projects that are expected to be completed after 2023. Please include the project name and the work plan. For each project, include the following information in separate columns, at a minimum:</p> <ol style="list-style-type: none"> Circuit number MAT code Program Circuit ID number Circuit segment name or ID number of the project affects more than one circuit segment, please identify each one. Risklevel (add risk acronym) from the wildfire risk model that you are using to estimate distribution risk your 2023-2025 WMP plan. The expected start date of the project. The expected completion date of the project. Length in circuit miles of overhead conductor to be installed in 2023. Length in circuit miles of overhead conductor to be permanently removed in 2023 and replaced by underground conductor (rows that this may differ slightly from the previous section due to differing overhead and underground needs). Length in circuit miles of overhead conductor to be permanently removed in 2023 and not replaced with covered conductor or underground). Length in circuit miles of any other type of system hardening project to be installed in 2023 (if this is greater than zero, please describe the type of system hardening project). 	<p>Please see attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-16" for the following information:</p> <p>a. See column A (circuit number), and B (project description)</p> <p>b. See column C</p> <p>c. See column D</p> <p>d. See column E</p> <p>e. See column F</p> <p>f. See column G and K</p> <p>Column G shows the Applicable Risk Model that was used for selecting the project and putting it into scope. Risk Rank scores, where in Column I and K, are based on the Wildfire Distribution Risk Model (WDRM) for Version 2 and Version 3, respectively. The Risk ranking outcomes are the results of the relevant risk model (i.e., WDRM v2, WDRM v3) where circuit segments are ranked on a 1 to 3 risk scale, where 1 is the highest risk circuit segment, and 3 is the lowest risk.</p> <p>h. See column L</p> <p>i. See column M</p> <p>j. See column AA</p> <p>k. NA - PG&E does not track length (in circuit miles) of overhead conductor to be permanently removed and replaced by underground.</p> <p>l. See column AB</p> <p>m. NA</p> <p>n. The file includes project information from prior to 2022, 2022, and 2023 where projects overlap with these years. Data is provided in the same file for 2024 that is responsive to Question 009.</p> <p>Additionally, because this question is associated with the System Hardening worksheet only, this data does not include underground mileage associated with the Bute Substation.</p>										1	NA	8.1.2.5	System Hardening	NA				
Pre-Discovery 34	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	9	CAIPA_Sat WMP-06_09	<p>Please your worksheet that describes where and when you will perform system hardening on distribution circuits in 2024. For projects that you expect to partially complete in 2024 (i.e., projects that are expected to start before 2024 and are expected to continue in 2024, or projects that are expected to be completed after 2024), please include the project name and the work plan. For each project, include the following information in separate columns, at a minimum:</p> <ol style="list-style-type: none"> Circuit number MAT code Program Circuit ID number Circuit segment name or ID number of the project affects more than one circuit segment, please identify each one. Risklevel (add risk acronym) from the wildfire risk model that you are using to estimate distribution risk your 2023-2025 WMP plan. The expected start date of the project. The expected completion date of the project. Length in circuit miles of overhead conductor to be installed in 2024. Length in circuit miles of overhead conductor to be permanently removed in 2024 and replaced by underground conductor (rows that this may differ slightly from the previous section due to differing overhead and underground needs). Length in circuit miles of overhead conductor to be permanently removed in 2024 and not replaced with covered conductor or underground). Length in circuit miles of any other type of system hardening project to be installed in 2024 (if this is greater than zero, please describe the type of system hardening project). 	<p>Please see Attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-16" for the following information:</p> <p>a. See column A (circuit number), and B (project description)</p> <p>b. See column C</p> <p>c. See column D</p> <p>d. See column E</p> <p>e. See column F</p> <p>f. See column G and K</p> <p>Column G shows the Applicable Risk Model that was used for selecting the project and putting it into scope. Risk Rank scores, where in Column I and K, are based on the Wildfire Distribution Risk Model (WDRM) for Version 2 and Version 3, respectively. The Risk ranking outcomes are the results of the relevant risk model (i.e., WDRM v2, WDRM v3) where circuit segments are ranked on a 1 to 3 risk scale, where 1 is the highest risk circuit segment, and 3 is the lowest risk.</p> <p>h. See column L</p> <p>i. See column M</p> <p>j. See column AA</p> <p>k. NA - PG&E does not track length (in circuit miles) of overhead conductor to be permanently removed and replaced by underground.</p> <p>l. See column AB</p> <p>m. NA</p> <p>n. The file includes project information from prior to 2022, 2022, and 2023 where projects overlap with these years. Data is provided in the same file for 2023 that is responsive to Question 008.</p> <p>Additionally, because this question is associated with the System Hardening worksheet only, this data does not include underground mileage associated with the Bute Substation.</p>										0	NA	8.1.2.6	System Hardening	NA				
Pre-Discovery 35	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	10	CAIPA_Sat WMP-06_10	<p>For each of your 2023-2025 WMP system hardening initiatives, please provide disaggregated information related to the specialties and circuit miles listed in the attached table. CAIPA/CAIOPAC-PGE-2022WMP-08 Attachment 1. Add columns as needed.</p>	Please see details on the cost and mileage breakdowns in attached file "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-08" file.												1	NA	4.3	Proposed Expenditures	System Hardening		
Pre-Discovery 36	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	11	CAIPA_Sat WMP-06_11	<p>Please provide a spreadsheet listing (at least) each underground project completed during the period of January 1, 2022, through December 31, 2022. For each project, please provide the following information (see columns):</p> <ol style="list-style-type: none"> Project ID number or other identifier Circuit ID ID of each circuit segment that was entirely underground in the project County or counties where underground work took place Project completion date Total miles of trenching required Total miles of trenching completed Total miles of trenching cost of the project (i.e., costs attributed to your electric facilities), including costs for planning, design, permitting, and construction Whether this was a WMP project (yes/no) Whether this was a non-WMP project (yes/no) Whether this was a WMP project (yes/no) Whether this was a non-WMP project (yes/no) Whether you shared trenches for this project with any telecommunications utilities (yes/no) Whether you shared trenches for this project with gas facilities (yes/no) 	<p>Please see Attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-08" file.</p> <p>1) Project ID number or other identifier - See columns A (circuit number) and B (Project Description)</p> <p>2) Circuit ID - See column C</p> <p>3) ID of each circuit segment that was entirely underground in the project - Our underground projects are split into multiple phases where a given circuit protection zone (CPZ) shown in Column C. The underground of complete CPZs is fully completed at the end of the phase before the start of the next phase. For a single row:</p> <p>(i) ID of each circuit segment that was partially underground in the project - For response to (a), our underground projects are split into multiple phases where a given circuit protection zone (CPZ). By reviewing data entry from a single row, it is not possible to determine completion of an entire CPZ.</p> <p>(ii) County or counties where underground work took place - See column D</p> <p>4) Project completion date - See column E</p> <p>5) Total miles of trenching required - This information is not tracked by PG&E.</p> <p>6) Total miles of trenching completed - This information is not tracked by PG&E.</p> <p>7) Total miles of trenching cost of the project (i.e., costs attributed to your electric facilities), including costs for planning, design, permitting, and construction - There is no non-electric utility work in the scope of system hardening underground (U) projects.</p> <p>8) Whether this was a WMP project (yes/no) - See column G</p> <p>9) Whether this was a non-WMP project (yes/no) - See column H</p> <p>10) PG&E did not share trenches for any projects identified in "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-08" file.</p> <p>11) Whether you shared trenches for this project with gas facilities (yes/no) - NA. For system hardening we do not share trenches with gas.</p> <p>12) Whether you shared trenches for this project with telecommunications utilities (yes/no) - NA. For system hardening we do not share trenches with telecommunications utilities.</p> <p>13) Constructed in accordance with the CPUC's Electric Tariff Rule 20.</p> <p>14) For the purposes of this question and the following questions, "the project cost" refers to the start-to-finish costs to complete the capital project, from planning to the end of construction. This does not include maintenance or operational costs.</p>													1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
Pre-Discovery 37	CAIPA	Sat WMP-06	CAIPA_Sat WMP-06	12	CAIPA_Sat WMP-06_12	<p>Please provide a spreadsheet listing (at least) each underground project completed during the period of January 1, 2022 through December 31, 2022. In addition to the separate column, please provide the following information for each project:</p> <ol style="list-style-type: none"> Project ID number or other identifier, matching part (a) of the previous question Circuit ID 	<p>Please see Attachment "WMP-Discovery2023_DR_CAIPA/CAIOPAC-PGE-2022WMP-08" file.</p> <p>Please note that the data reflected in the OIS spreadsheet file will not match the data from Q11 due to the process time between contractor completion and being fully reported in OIS.</p>														1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

Pre-Discovery 45	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_001	3	CPUC - SPD (Safety Policy Division)_001_03	<p>It is incorrect. EPDS and REFCL are two very different approaches that share a common goal of attempting to reduce risk associated with ignition on primary electric distribution systems.</p> <p>1. EPDS - advantages 1. Can be implemented on existing equipment and relays 2. Reduces incident fault energy across all types of faults (Three-phase, line-to-line, line-to-ground, etc.) 3. Reduces incident fault energy through fault clearing time reduction 4. Helps to reduce faulted device associated with 3-wire distribution system by prioritizing ground trip behavior versus single phase line operation 5. Incorporates various technologies for high impedance fault detection (Sensitivity Ground Fault (SGF), Donned Conductor Detection (DCD), etc.) 6. Does not require extensive field fault speed measurements or communication beyond traditional SCADA and remote control, (i.e. does not rely on synchrophasor technology) 7. Does not require changes to system grounding configuration or load connected to equipment REFCL - advantages 1. Provides 40% greater probability reduction to single line-to-ground (V-fault) ignition testing. Considering all fault types, an overall ignition probability reduction can be calculated as approximately a 50% reduction. 2. Greater sensitivity to high impedance faults (> 5k ohm fault resistance) 3. Greater sensitivity to ground faults. 4. Capable to utilize the system during fault events as compared to traditional protection settings due to the normal coordination time provided in which can result in lower reliability performance. 5. Fault current is limited. Fault energy is reduced by faster clearing time and remains a function of existing system configuration. Re-energization after a fault event requires tripping of EPDS to avoid inrush trips 6. Susceptible to trips associated with customer load inrush, CT error, capacitor bank switching, and other non-fault grid disturbances REFCL - disadvantages 1. No risk reduction for line-to-line faults or three-phase ground faults 2. Complicated to install and operate 3. Fault location is more difficult 4. Increased ground voltage stress on equipment during fault 5. High-voltage stress on equipment during fault</p> <p>REFCL also provides a path to measure risk reduction by understanding high voltage risk locations. For locations that are not so underdeveloped, we will continue to develop our suite of Operational Mitigation and other OMPSC mitigation programs. Operational Mitigation includes programs such as EPDS, equipment maintenance and repair, vegetation management for operational mitigation, and PSPS. System Resilience Mitigation includes programs such as conduct conductor replacement, transmission conductor replacement, tower, and distribution and transmission HTD and PFRA open log reduction. We will also measure impact through our Communications Monitoring and Data Collection programs include detailed distribution and transmission asset inspection programs, vegetation inspection programs, and monitoring programs such as fiber optic monitoring, weather stations, and sensor monitoring. A complete listing of mitigation programs is included in Section 7.2.1 of PG&E's WMP Table 7.4 in a PG&E WMP shows how we have different mitigation programs at the circuit segment level to provide system protection and resilience. While Table 7.4 shows that PG&E has no risk circuit segments, we apply the approach across all circuits at the HTD and PFRA. PG&E will continue to explore new technologies to reduce the risk of ignitions and the consequences of wildfires and may incorporate new technologies into our mitigation program.</p> <p>PG&E has designed the entire pre-submission documents to align with Energy Safety's pre-submission process and guidelines which stipulate that the pre-submission documents are not to be made public. In addition, the pre-submission information indicates that a confidential document. As in our correspondence to you on March 6th and March 10th, we can provide you with a copy of the pre-submission documents that were submitted upon execution of a non-disclosure agreement. Alternatively, we will be submitting documents to Energy Safety prior to the date response phase provide a copy, as soon as possible and no later than 10 business days from the issuance of this date request.</p> <p>Please provide a copy of each WMP (update-related document, submission, or report you submit to the Office of Energy Infrastructure Safety (Energy Safety) in 2023 or 2024 that is related to your 2025 WMP Update. Provide the copy to Cal Advocates within one business day of the document's submission to Energy Safety. If you have submitted a document to Energy Safety prior to the date response phase provide a copy, as soon as possible and no later than 10 business days from the issuance of this date request. The request is limited to materials or documents that (1) are related to work plans, initiation letters, risk models, risk spend (efficiency) calculations, cost-benefit ratio (CBR) calculations, or WMP change orders; and (2) are provided to Energy Safety to provide additional details or context concerning information or statements in your WMP (and any subsequent revision or change orders regarding your WMP).</p>	Wendy Alkhadiji	2/3/2023	3/9/2023	3/9/2023	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	8.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk	
Pre-Discovery 46	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_001	4	CPUC - SPD (Safety Policy Division)_001_04	<p>General risk reduction report WMP safety goal to minimize risk reduction, particularly reduction of likelihood of ignition and also reduction of consequences, for circuits in HTD area, are not understood?</p>	Wendy Alkhadiji	2/3/2023	3/9/2023	3/9/2023	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities	
Pre-Discovery 47	Green Power Institute (GPI)	001	Green Power Institute (GPI)_001	1	Green Power Institute (GPI)_001_01	<p>Please provide PG&E's Pre-submission 2023-2025 WMP Base Plan filed on February 13, 2023, with the OEIS for the 2023 WMP Calendar and Schedule documents including all attachments and associated supporting documents required for the Pre-submission 2023-2025 WMP Base Plan filing.</p>	Zoe Harriot	3/1/2023	3/14/2023	3/14/2023	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	AB	AB	AB	
Pre-Discovery 48	CaPA	Set WMP-37	CaPA_Set WMP-37	1	CaPA_Set WMP-37_01	<p>The definition of "disclose to" or "convey" which is overbroad and burdensome to the extent they encompass "regulate" any "matter" or "information" in the public domain. The definition of the terms "respondents" and "intermediaries" which include "correspondence" and "communications," making these terms overly broad, and not reasonably calculated to lead to the discovery of admissible information in this proceeding. The definition of the phrase "any fact, statistic, inference, suspicion, scientific, experimental, conclusion, study, report, and analysis." ANSWER 021</p> <p>In addition to all general objections, PG&E specifically objects to this request on the grounds that it is unduly burdensome, PG&E further objects to this request as the information requested is vague, ambiguous, and overbroad. Lastly, PG&E objects to this request on the grounds that it seeks to impose a continuing response obligation on the responding party. Continuing discovery obligations are not permitted under California law. (Evid. Code, Civ. Code, Cal. App. 4th, 1915, 1330 (2004), Code Civ. Proc., § 3030 (2003)). Notwithstanding and without waiving these objections, PG&E responds as follows: We will do our best to provide the requested information within the requested timeframe, as soon as possible thereafter. However, please note that due to the timing and voluminous nature of our submissions to Energy Safety, it may not always be possible to provide the information sought within the requested timeframe. In these instances, we will provide the information as soon as reasonably possible.</p> <p>Additionally, with the exception of confidential and/or sealed data, please note that we post our WMP-related submissions on our website, www.energy.ca.gov/infrastructure, generally on the same business day that the documents are provided to Energy Safety. Furthermore, all submissions to Energy Safety are also posted to the internet on our Energy Safety website, https://energy.safelife.org, and are readily always publicly available after the business day of submission. Public email notifications of the availability of these documents are sent to all parties who subscribe to the service list on the document.</p>	Holy Wellman	3/9/2023	4/3/2024	4/3/2024	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	NA	NA	NA	NA
Pre-Discovery 49	CaPA	Set WMP-37	CaPA_Set WMP-37	2	CaPA_Set WMP-37_02	<p>We will do our best to provide the requested information within the requested timeframe, as soon as possible thereafter. However, please note that due to the timing and voluminous nature of our submissions to Energy Safety, it may not always be possible to provide the information sought within the requested timeframe. In these instances, we will provide the information as soon as reasonably possible.</p> <p>Additionally, with the exception of confidential and/or sealed data, please note that we post our WMP-related submissions on our website, www.energy.ca.gov/infrastructure, generally on the same business day that the documents are provided to Energy Safety. Furthermore, all submissions to Energy Safety are also posted to the internet on our Energy Safety website, https://energy.safelife.org, and are readily always publicly available after the business day of submission. Public email notifications of the availability of these documents are sent to all parties who subscribe to the service list on the document.</p>	Holy Wellman	3/9/2023	4/3/2024	4/3/2024	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	NA	NA	NA	NA
Pre-Discovery 50	CaPA	Set WMP-37	CaPA_Set WMP-37	3	CaPA_Set WMP-37_03	<p>We will do our best to provide the requested information within the requested timeframe, as soon as possible thereafter. However, please note that due to the timing and voluminous nature of our submissions to Energy Safety, it may not always be possible to provide the information sought within the requested timeframe. In these instances, we will provide the information as soon as reasonably possible.</p> <p>Additionally, with the exception of confidential and/or sealed data, please note that we post our WMP-related submissions on our website, www.energy.ca.gov/infrastructure, generally on the same business day that the documents are provided to Energy Safety. Furthermore, all submissions to Energy Safety are also posted to the internet on our Energy Safety website, https://energy.safelife.org, and are readily always publicly available after the business day of submission. Public email notifications of the availability of these documents are sent to all parties who subscribe to the service list on the document.</p>	Holy Wellman	3/9/2023	4/3/2024	4/3/2024	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	0	NA	NA	NA	NA	NA
Pre-Discovery 51	CaPA	Set WMP-38	CaPA_Set WMP-38	1	CaPA_Set WMP-38_01	<p>Provide an Excel table of all distribution circuit segments existing as of January 1, 2024 (see notes) that includes the following information in separate columns: (a) PG&E ID number to provide some of all of the requested information at the circuit-segment level; provide such data at the circuit level instead and explain why PG&E is unable to provide circuit-segment level data. (b) Circuit-segment name (c) Circuit ID number (d) Total circuit miles (e) Circuit miles in Non-HTD (f) Circuit miles in Other HTD (g) Circuit miles in HTD Tier 2 (h) Circuit miles in HTD Tier 3 (i) Circuit voltage (j) Circuit DADR System Average Interruption Duration Index for 2023 (k) Circuit SAIFI System Average Interruption Frequency Index for 2023 (l) Circuit SAIDI System Average Interruption Frequency Index for 2023 (m) Total customer-entireties of de-energization on the circuit due to PSPS events in 2023 (sum of customer-minutes de-energized) (n) Total customer-entireties of de-energization on the circuit due to PSPS events in 2023 (sum of customer-minutes de-energized) (o) Total customer-entireties of de-energization on the circuit due to fast-splice settings in 2023 (p) Miles of covered conductor installed in Non-HTD in 2023 (q) Miles of covered conductor installed in Other HTD in 2023 (r) Miles of covered conductor installed in HTD Tier 2 in 2023 (s) Miles of covered conductor installed in HTD Tier 3 in 2023 (t) Number of poles installed in Other HTD in 2023 (u) Number of poles installed in Non-HTD in 2023 (v) Number of poles installed in HTD Tier 2 in 2023 (w) Number of poles installed in HTD Tier 3 in 2023 (x) Miles of underground conductor installed in Non-HTD in 2023 (y) Miles of underground conductor installed in Other HTD in 2023 (z) Miles of underground conductor installed in HTD Tier 2 in 2023 (aa) Miles of underground conductor installed in HTD Tier 3 in 2023 (ab) Miles of LDCR (segment) in Non-HTD in 2023 (ac) Miles of LDCR (segment) in Other HTD in 2023</p> <p>Please note: Confidentiality and Circuit Status Preservation</p>	Holy Wellman	3/9/2023	4/9/2024	4/9/2024	https://www.cpuc.ca.gov/info/documents/gw-cv2023-001 https://www.cpuc.ca.gov/info/documents/gw-cv2023-002 https://www.cpuc.ca.gov/info/documents/gw-cv2023-003	4	NA	8	Section 8.1.3 - Asset Inspection	8.1.3 Asset Inspectors - Distribution	

Pre-Discovery 71	CaPA	Set WMP-39	CaPA_Set WMP-39	10	CaPA_Set WMP-39_G10	For each of your 2023-2025 WMP system hardening initiatives, please provide disaggregated information related to the proposed and actual miles included in the attached table. Call/Associate/POE-2023WMP-03 Attachment 2. Add columns as needed.	<p>critical Miles: Please see Table 1 below for POGE's system hardening critical miles for the year 2023-2025. Provided are both the target miles and the actual or projected miles for each year. Please note that while the current System Hardening verification (WMP Initiative GH01) includes planned miles exceeding the annual targets for 2023 and 2024 to account for project dependencies and construction issues that may arise and delay some projects, POGE intends to manage the system hardening portfolio to most nearly meet the target miles. Therefore, the projected miles included below for 2023 and 2024 are equivalent to the target.</p> <p>Additionally, the 2023 actual miles have been prepared by NAY codes:</p> <ul style="list-style-type: none"> 08000002: System hardening projects funded by the CRC/WMA. 1-Non08000002: System hardening projects in an RFID that are funded by other programs outside of the CRC/WMA/Maintenance Account (WMA). 2-0: Work transferred to other (WMA, O&M, Reliability, State 2). 3-Expenditures: Please see Table 2 below for costs related to 2023-2025 system hardening. <p>Table 1: 2023-2025 Target, Actual, and Projected System Hardening Critical Miles (WMP Initiative GH01)</p> <p>Year Target Actual Projected</p> <p>2023 204.7 191.280294 191.132810</p> <p>2024 204.7 204.7 204.7</p> <p>2025 204.7 204.7 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	0	NA	8.1.2.5	System Hardening	NA
Pre-Discovery 72	CaPA	Set WMP-39	CaPA_Set WMP-39	11	CaPA_Set WMP-39_G11	On page 405 of POGE's 2023-2025 WMP RA, January 8, 2024, POGE provided Table POGE-4.1.2-3, shown below. Please provide an updated version of this table (preferably in Excel format) with actuals from 2023 and updated estimates for 2024, 2025, and 2026.	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	1	NA	8.1.2.5	System Hardening	NA
Pre-Discovery 73	CaPA	Set WMP-39	CaPA_Set WMP-39	12	CaPA_Set WMP-39_G12	On October 3, 2023, the WMA Safety Advisory Board held a meeting. Four documents related to POGE's proposed distribution system plan are listed in the meeting materials. Are there investigations or government and/or meetings/wMA safety advisory board meeting held 10-2-2023?	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	4	NA	8.1.2.5	System Hardening	NA
Pre-Discovery 74	CaPA	Set WMP-39	CaPA_Set WMP-39	13	CaPA_Set WMP-39_G13	Identify any ignitions in 2023 associated with assets where you had an existing corrective notification at the time of the ignition. Please provide a spreadsheet listing each such ignition (as rows) with the following information in separate columns:	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	1	NA	8	Section 8.3 - Situational Awareness and Forecasting	8.3.4.1 Existing Ignition Detection Sensors and Systems
Pre-Discovery 75	CaPA	Set WMP-39	CaPA_Set WMP-39	14	CaPA_Set WMP-39_G14	Has POGE's Asset Failure Analysis Team usually corrected any ignitions that occurred in 2023 to assets with existing asset or vegetation corrective notifications at the time of ignition?	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	4	NA	8	Section 8.3 - Situational Awareness and Forecasting	8.3.4.1 Existing Ignition Detection Sensors and Systems
Pre-Discovery 75	CaPA	Set WMP-39	CaPA_Set WMP-39	14(a)	CaPA_Set WMP-39_G14(a)	Has POGE's Asset Failure Analysis Team usually corrected any ignitions that occurred in 2023 to assets with existing asset or vegetation corrective notifications at the time of ignition?	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	5/15/2024	5/16/2024	5/16/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	4	NA	NA	Section 8.3 - Situational Awareness and Forecasting	8.3.4.1 Existing Ignition Detection Sensors and Systems
Pre-Discovery 76	CaPA	Set WMP-39	CaPA_Set WMP-39	15	CaPA_Set WMP-39_G15	On page 348 of POGE's 2023-2025 WMP RA, January 8, 2024, POGE stated that it was reviewing field safety assessment procedures (DS-8123P-200) and expected to publish the revised procedure by the end of 2023. Has POGE published the revised DS-8123P-200 procedure?	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	1	NA	8	Section 8.1.7 - Open Work Orders	8.1.7.2 Open Work Orders - Distribution Taps
Pre-Discovery 77	CaPA	Set WMP-39	CaPA_Set WMP-39	16	CaPA_Set WMP-39_G16	In response to data request CA/Associate/POE-2023WMP-18 question 18, April 28, 2023, POGE stated that it was actively analyzing the effectiveness of both covered conductor and bare conductor in combination with EPSS and OCCPV. POGE stated that it was also completing this analysis in 2023.	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	0	NA	8.1.2	Grid Design and System Hardening	Various
Pre-Discovery 78	CaPA	Set WMP-39	CaPA_Set WMP-39	17	CaPA_Set WMP-39_G17	In response to data request CA/Associate/POE-2023WMP-27 question 5, August 18, 2023, POGE stated that it expected to complete its Substation Annual Abatement Effectiveness Study in partnership with Electric Power Research Institute by Q1 of 2024.	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	0	NA	8.1.2.12.2	Grid Design and System Hardening	Other Technologies and Systems - Substation Annual Abatement
Pre-Discovery 79	CaPA	Set WMP-39	CaPA_Set WMP-39	18	CaPA_Set WMP-39_G18	In response to data request CA/Associate/POE-2023WMP-27 question 6, August 18, 2023, POGE stated that it was finalizing a study to assess the recorded reliability improvements at locations that have been undergrounded and/or have been replaced with covered conductor. POGE stated that it anticipated completing this analysis in October of 2023.	<p>Please see attachment "WMP-Chowrey2023-2025_DR_CaPAAssociate_039-2011A&N17CON2.pdf" for the requested information.</p> <p>2023 Actual miles included:</p> <p>08000002: 204.7</p> <p>1-Non08000002: 204.7</p> <p>2-0: 204.7</p> <p>3-Expenditures: 204.7</p>	Holy Wellman	3/22/2024	4/5/2024	4/5/2024	https://www.epa.com/permits/npdes/colleagues-2023-03	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D A-CI POGE 23-18 Progress and Updates on Undergrounding and Risk Mitigation

Pre-Discovery 80	CaPA	Set WMP-39	CaPA_Set WMP-39	19	CaPA_Set WMP-39_Q19	In response to data request CaAdvocates-PGE-2023WMP-39 question 5, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023. a) Has PG&E completed the 2023 Electric Asset Management Plan? b) If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan. c) If the answer to part (a) is no, please explain the delay. d) If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.	i) PG&E is working on completing final updates to the 2023 Electric Asset Management Plan and tentatively plans to publish the document in June 2024. PG&E will provide the completed document once it is finalized and published. ii) Not applicable. iii) The 2023 Electric Asset Management Plan has been reviewed and approved by PG&E leadership. However, the documents will go through the technical writer, formatting and processing, along with the other functional areas' asset management plans. iv) PG&E tentatively expects to publish the 2023 Electric Asset Management Plan in June 2024.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Pages/Support/CAAdvocates-2023-039.aspx	0	NA	NA	NA	NA
Pre-Discovery 80	CaPA	Set WMP-39	CaPA_Set WMP-39	19(a)	CaPA_Set WMP-39_Q19(a)	In response to data request CaAdvocates-PGE-2023WMP-39 question 5, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023. a) Has PG&E completed the 2023 Electric Asset Management Plan? b) If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan. c) If the answer to part (a) is no, please explain the delay. d) If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.	i) Please see "WMP-Discovery2023-2025_DR_CaAdvocates_039Q019(a)1A6401CONF.pdf" for the completed 2023 Electric Asset Management Plan.	Holy Wetman	3/22/2024	6/21/2024	6/18/2024	https://www.pge.com/Pages/Support/CAAdvocates-2023-039.aspx	1	NA	NA	N-Q270 Q866A	NA
Pre-Discovery 81	CaPA	Set WMP-39	CaPA_Set WMP-39	20	CaPA_Set WMP-39_Q20	In response to data request CaAdvocates-PGE-2023WMP-39 question 6, September 27, 2023, PG&E stated the following: "We will evaluate the history of response to wire down conditions in the HFRANFTD, occurring during the regional peak wildfire season of September 1st and November 1st, going back to 2020. We can complete that analysis by December 31, 2023." a) Has PG&E completed the analysis mentioned above? b) If the answer to part (a) is yes, briefly describe your findings. c) If the answer to part (a) is no, please provide a copy of any reports or other output from the analysis. d) If the answer to part (a) is no, please explain the delay. e) If the answer to part (a) is no, please state when PG&E currently expects to complete this analysis.	i) PG&E has not yet completed its evaluation. PG&E is currently evaluating outage ii) High Fire Risk Areas (HFRA), High Fire Threat Districts (HFTD) areas with the least conditions during peak wildfire season between May 1st and November 1st at the time. iii) Not applicable, please see the response to subpart (a). iv) Not applicable, please see the response to subpart (a). v) The HFRANFTD Wire-Down Response time analysis has been delayed due to resource constraints driven by the extended 2023 wildfire season and the 2024 wildfire season planning activities. vi) PG&E expects to complete the analysis by May 2024.	Holy Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Pages/Support/CAAdvocates-2023-039.aspx	0	NA	8.2.3.4	Vegetation Management and Inspections	Fabrizio Miglion