

14	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_02	2	CaIPa_Sat WMP/08_02	<p>Regarding the new "Tree Removal Inventory Program" described in section 8.2.2.4 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 on areas previously identified. PG&E estimates that EVM inventory included more than 300,000 trees by the end of 2022. Under the Tree Removal Inventory Program, we remove or re-plant trees identified in the EVM program.</p> <p>Based on this ongoing inspection and evaluation work, we will develop annual risk-related work plans and mitigate the highest risk-related critical responses in CPZs first. We plan to address all trees in the inventory in a 10-year period.</p> <p>a) Please explain what is meant by the term "transitional" in the first instance.</p> <p>b) Does PG&E intend to identify and inventory trees?</p> <p>c) If the answer to part (b) is yes, please provide PG&E's methodology and strategy for doing so.</p> <p>d) If the answer to part (b) is no, please explain how PG&E intends to achieve compliance with risk reduction objectives.</p> <p>e) How many years will the abatement/"on-going" inspection and evaluation work?</p> <p>f) Please state the frequency of the "on-going" inspection and evaluation work.</p> <p>g) How many years will the abatement/"on-going" work last?</p> <p>h) After the "on-going" program ends, will PG&E assess the areas as an inventory?</p> <p>i) If the answer to part (h) is yes, please explain how PG&E intends to address vegetation in specific areas going forward.</p> <p>j) If the answer to part (h) is no, please explain how the tree inventory will be maintained and used going forward.</p> <p>k) When it is stated that PG&E estimates that our EVM inventory included more than 300,000 trees at the end of 2022, please explain why the number is an estimate rather than a precise number.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
15	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_03	3	CaIPa_Sat WMP/08_03	<p>Regarding the new "VM for Operational Mitigation" described in section 8.2.2.5 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 ignition using a risk informed, targeted plan to mitigate potential vegetation contacts based on historic vegetation outages on EPSS enabled outages. PG&E will initially focus on mitigating potential vegetation contacts in CPZs that have experienced vegetation related outages. Scopes of work will be developed by using EPSS and historical outage data and vegetation failure from the WORMs to our model. The model-derived vegetation outages select of condition responses may generate additional tree work.</p> <p>a) Please explain what is meant by the term "transitional" in the first instance.</p> <p>b) How frequently will PG&E update the scope of work for this program (i.e., annually or quarterly)?</p> <p>c) Please explain PG&E's methodology for updating the scope of work for this program.</p> <p>d) Please explain how PG&E will use EPSS data to contribute to the scope of work for this program.</p> <p>e) Please explain how PG&E will use "vegetation failure from the WORMs or risk model" to contribute to the scope of work for this program.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.2.3	Vegetation Management and Inspections	VM for Operational Mitigation
16	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_04	4	CaIPa_Sat WMP/08_04	<p>Regarding the new "Focused Tree Inspections" described in section 8.2.2.5 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 of regional AOCs and used that information to develop programs where focused vegetation inspections can be evaluated to determine appropriate counties to prioritize pilots. Focused Tree Inspection pilots are planned at least one area. The pilot will develop and implement guidelines that inform inspections.</p> <p>a) Please explain what is meant by the term "transitional" in the first instance.</p> <p>b) Does "AOC" stand for "Areas of Concern" in the instance of this program? If yes, please define it.</p> <p>c) Please describe PG&E's methodology for developing the abatement/inspection program.</p> <p>d) How does PG&E determine which counties to prioritize vegetation pilots to be implemented?</p> <p>e) How does PG&E determine which counties to prioritize vegetation pilots to be implemented?</p> <p>f) Please describe the following aspects of the pilot or pilots:</p> <ol style="list-style-type: none"> Duration Goals and objectives Resources <p>g) Please describe the following regarding the guidelines that PG&E will develop based on the pilot(s), as defined above:</p> <ol style="list-style-type: none"> The expected content of the guidelines How PG&E expects the guidelines to inform inspections When PG&E expects to develop such guidelines How PG&E expects the data that PG&E expects to "focus tree inspection" to include How PG&E expects the "focused tree inspection" to be implemented How PG&E expects the "focused tree inspection" to be implemented How PG&E expects the "focused tree inspection" to be implemented What metrics and criteria will PG&E use to determine whether a pilot passes or fails a "focused tree inspection"? 	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
17	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_05	5	CaIPa_Sat WMP/08_05	<p>PG&E states on p. 539 of its WMP:</p> <p>PG&E is restructuring our VM program starting in 2023. Based on recent data and analysis, this includes the EVM Program as well as the risk reduction from the EVM program that was introduced in 2021. The EVM Program is less than the risk reduction from the EVM program that was introduced in 2021. The EVM Program is less than the risk reduction from the EVM program that was introduced in 2021. The EVM Program is less than the risk reduction from the EVM program that was introduced in 2021.</p> <p>a) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>b) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>c) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.3	Vegetation Management and Inspections	FaH in Mitigation
18	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_06	6	CaIPa_Sat WMP/08_06	<p>PG&E states on p. 539 of its WMP:</p> <p>Additional Operational Mitigation such as PVO and DCD will also help to mitigate risk previously prescribed to EVM. As a result, PG&E concluded the EVM Program at the end of 2022.</p> <p>a) Does "PVO" stand for "Partial Voltage Detection" in the instance of this program? If yes, please define it.</p> <p>b) Does "DCD" stand for "Current-Carrier Detection" in the instance of this program? If yes, please define it.</p> <p>c) How has PG&E determined that PVO will help to mitigate risk that PG&E previously sought to mitigate with EVM?</p> <p>d) How has PG&E determined that PVO will help to mitigate risk that PG&E previously sought to mitigate with EVM?</p> <p>e) Please provide any available documentation and analysis showing that PVO will help to mitigate risk that PG&E previously sought to mitigate with EVM.</p> <p>f) How has PG&E determined that DCD will help to mitigate risk that PG&E previously sought to mitigate with EVM?</p> <p>g) Please provide any available documentation and analysis showing that DCD will help to mitigate risk that PG&E previously sought to mitigate with EVM.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.3	Vegetation Management and Inspections	FaH in Mitigation
19	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_07	7	CaIPa_Sat WMP/08_07	<p>Opp. 314.316 of PG&E's WMP: PG&E defines its operational mitigation into four different groups: Group 2 includes "Inspection and maintenance programs where we exceed compliance requirements and permit regulations are deployed and/or we implement new technologies so that we no longer need to exceed compliance requirements." For the following Group 2 mitigation, please state whether PG&E will determine that it no longer needs to exceed compliance requirements, and state the basis for such a determination.</p> <ol style="list-style-type: none"> Equipment Maintenance and Repair Pole Climb Program Utility Defensible Space Program Wood Management Substation Defensible Space Focused Tree Inspections Vegetation Management Emergency Response VM 	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Instrum Mitigation Initiatives
20	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_08	8	CaIPa_Sat WMP/08_08	<p>Opp. 314.316 of PG&E's WMP: PG&E defines its operational mitigation into four different groups: Group 2 includes "Inspection and maintenance programs where we exceed compliance requirements and permit regulations 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 mitigation, please state whether PG&E intends to discontinue the compliance/cross permit regulations or discontinue the permit regulations or discontinue the permit regulations or discontinue the permit regulations.</p> <ol style="list-style-type: none"> Equipment Maintenance and Repair Pole Climb Program Utility Defensible Space Program Wood Management Substation Defensible Space Focused Tree Inspections Vegetation Management Emergency Response VM 	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Instrum Mitigation Initiatives
21	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_09	9	CaIPa_Sat WMP/08_09	<p>Regarding the new "Tree Removal Inventory Program" described in section 8.2.2.4 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 on areas previously identified. PG&E estimates that EVM inventory included more than 300,000 trees by the end of 2022. Under the Tree Removal Inventory Program, we remove or re-plant trees identified in the EVM program.</p> <p>a) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>b) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>c) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
22	CAIPA	Set WMP/08	CaIPa_Sat WMP/08_10	10	CaIPa_Sat WMP/08_10	<p>Per Table 8.2.3, Vegetation Management Implementation Objectives, PG&E's Focused Tree Inspection Program is currently under development. By the end of 2025, PG&E plans to "Fully Implement AOC cross-functional team to implement guidelines across all AOCs."</p> <p>a) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>b) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p> <p>c) Please provide any available workplans, reports, or other documents that support the statement quoted above.</p>	Holly Wichman	3/30/2023	4/5/2023	4/5/2023	<p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p> <p>https://www.pge.com/energy/our-business/energy-solutions/vegetation-management</p>	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

33	CaPA	Set WMP-09	CaPa_Sat WMP-09	2	CaPa_Set WMP-09_Q2	<p>POE notes that the statement included in the 2022-2023 WMP as a general observation about the variability of peak electric events by prevailing temperatures that exceed equipment design specifications. It does not constitute a thorough evaluation of the vulnerability, assuming the exposure of an asset to a specific climate hazard as well as an asset's resiliency to that climate hazard or a given asset or of the grid as a whole.</p> <p>POE will file its first Climate Vulnerability Assessment pursuant to CPUC Decision 20-02-046 in May 2024 in addition to the answers provided below. The 2022 Group Strategy Report contains a significant amount of detail on the Company's climate mitigation and adaptation activities.</p> <p>a) POE has undertaken existing adaptive capacity to manage the increased risk of asset failure driven by heat-related climate hazards and is taking the following steps to mitigate this risk:</p> <ol style="list-style-type: none"> 1) POE's customer protection, monitoring, and response team oversees electric equipment as part of the company's core mission to deliver safe, secure, affordable, reliable energy. 2) POE has developed a predictive transformer failure model to better target existing transformer replacement efforts and to identify currently in-service transformers that are at high risk of failure. 3) POE is evaluating the need to replace equipment that is at risk of failure due to heat-related conditions. This will involve the equipment that is of our useful life will be replaced with equipment designed to be resilient to heat. 4) In addition to the Active, POE's Climate Resilience Team provides relevant climate projection data to POE's Risk Assessment and Mitigation Phase (RAM) filing. 5) POE is also working with the Electric Program Investment (EPI) filing to ensure that climate projection data can be translated into near-term responses while maintaining individual utility climate projections current and should not be used to "round" weather events in a given year. Please see POE's 2022 RAM Filing for more information about the treatment of the climate change stress testing risk. 6) In the 2022-2023 period, POE will continue to manage the risk of asset failure utilizing existing capabilities as mentioned above, including enhancing the quantitative Risk Assessment and Mitigation Phase filing which is focused on quantifying the probability and consequences of asset failure and identifying cost-effective mitigations. 7) Climate projections provide directional guidance as to changes in the average frequency and severity of climate hazards over decades and cannot be used to predict the occurrence of specific hazard events in a given year or even sub-decadal mid-year period. In other words, climate projections centered on the year 2022 versus 2024 will show similar conditions, on average. This does not preclude that extreme or acute heat events could occur between 2023 and 2025. In addition to the elements of adaptive capacity mentioned above, POE also maintains a robust Emergency Preparedness and Response function to maintain safety and stability when acute environmental conditions occur. 8) https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery 	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	0	NA	5.3.4.2	Overview of the Service Territory	Climate Change Phenomena and Trends
34	CaPA	Set WMP-09	CaPa_Sat WMP-09	3	CaPa_Set WMP-09_Q3	<p>P. 508 of POE's WMP states:</p> <p>"To 2022 we continued our detection through the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras" program. Through our assessment period we determined that AI detection on cameras will improve our detection system and in 2023 we will select a vendor to trial AI detection on our cameras."</p> <p>a) How does POE determine that AI detection supports its detection system?</p> <p>b) Please specify the extent to which POE anticipates AI detection will improve POE's detection system.</p> <p>c) Please provide any available studies, analyses or reports to support your statements in response to parts (a) and (b).</p> <p>d) As of the beginning of 2023, how much has POE spent on the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras" program in each of the years 2022, 2023, and 2023?</p> <p>e) How much does POE forecast spending on the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras" program in each of the years 2023, 2024, and 2025?</p> <p>f) When is the earliest date that POE expects to realize benefits from automated fire detection?</p>	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	1	NA	5.3.4.2	Situational Awareness and Forecasting	Ignition Detection Systems
35	CaPA	Set WMP-09	CaPa_Sat WMP-09	4	CaPa_Set WMP-09_Q4	<p>P. 114 of POE's WMP states: "The results of the PSPS Consequence Model are then calibrated to POE's Enterprise Risk Model's MAVP Risk Score for PSPS."</p> <p>a) How does POE's Enterprise Risk Model's MAVP Risk Score for PSPS?</p> <p>b) How does POE calibrate the results of the PSPS Consequence Model to the Enterprise Risk Model's MAVP?</p>	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	3	NA	6.2.2.3	Risk Methodology and Assessment	Risk and Risk Components Calculation
36	CaPA	Set WMP-09	CaPa_Sat WMP-09	5	CaPa_Set WMP-09_Q5	<p>P. 161 of POE's WMP discusses Group G, Above-Grade Hardware, in the context of POE's WTRM. Group G has two sub-groups: POE states, "Sub-Group 1 consists of components where the air cycle closely aligns with that of the structure. These include the hanger plates and bolts."</p> <p>a) Does the WTRM apply the same hazards and threats of all components within a grouping? Please explain your response.</p> <p>b) Does POE's grouping within the WTRM account for any hazards that may arise to a sub-component within a group? Please explain your answer.</p> <p>c) How does POE account for the difference in the WTRM as to "hanging" that the main structure may not experience. How does POE account for the potential difference in the cycle between hanger plates and the structure?</p> <p>d) Which group within the WTRM includes "hanging"?</p> <p>e) Please explain your justification for your answer in part (d).</p>	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	0	NA	6.2.2.1	Risk Methodology and Assessment	Risk and Risk Components Calculation
37	CaPA	Set WMP-09	CaPa_Sat WMP-09	6	CaPa_Set WMP-09_Q6	<p>P. 103 of POE's WMP states: "Top-4th areas are defined as the areas corresponding to those 100 to 1000 pounds that exceed POE's overhead electrical infrastructure load limit and that are in the upper 20th percentile based on WDRM v3 risk scores."</p> <p>a) POE's upper 20th percentile, does POE mean the 8th through 100th percentile, as percentiles are conventionally defined (in other words, the highest quartile of risk scores)?</p> <p>b) In the above statement, does "upper 20th percentile" refer to all WDRM v3 scores (which encompass most of POE's service territory) or a subset (for example, the upper 20th percentile of those WDRM v3 risk scores located within WTRM)? Please explain your answer.</p> <p>c) How many circuit miles are included in the "upper 20th percentile" as this term is used in POE's WMP?</p>	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	0	NA	6.4.1.2	Risk Methodology and Assessment	Top Risk Areas Within the PRA
38	CaPA	Set WMP-09	CaPa_Sat WMP-09	7	CaPa_Set WMP-09_Q7	<p>P. 73 of POE's WMP states: "We created a species-specific stress index model for POE's sea health and mortality."</p> <p>a) What is POE's species-specific stress index model for sea health and mortality?</p> <p>b) How does POE utilize its species-specific stress index model for sea health and mortality?</p> <p>c) Please describe the data inputs to the model.</p> <p>d) Please describe the outputs of this model.</p>	Highly Material	44/2023	4/7/2023	4/7/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	0	NA	4.4	Overview of WMP	Risk-Informed Framework
39	CaPA	Set WMP-09	CaPa_Sat WMP-09	8	CaPa_Set WMP-09_Q8	<p>P. 129 of POE's WMP states:</p> <p>"When conducting VM activities, POE employees and contractors must adhere to POE's Best Management Practices (BMP) where practicable. BMPs are considered practicable when physically possible and not conflicting with other regulatory obligations or safety considerations (50-95 Rule 35 and Public Resources Code 4224 and 4293) or emergency response situations."</p> <p>a) How do VM contractors determine when adherence to BMPs is not "physically possible"?</p> <p>b) How do VM contractors determine when adherence to BMPs is not "physically possible" when practicable?</p> <p>c) What actions does POE take if it determines that a VM contractor has not consistently adhered to BMPs when practicable?</p> <p>d) Please list all instances in 2022 where POE determined that a VM contractor did not adhere to BMPs when practicable, as defined.</p> <p>e) Please list all instances in 2022 in which POE took action to reprimand or sanction a VM contractor for failing to adhere to BMPs where practicable.</p>	Highly Material	44/2023	4/12/2023	4/12/2023	https://www.pge.com/en/about/our-operations/energy-delivery/energy-delivery	1	NA	5.4.5	Overview of the Service Territory	Environmental Compliance and Permitting

39	CaPA	Set WMP-09	CaPa_Sat WMP-09	BREV	CaPa_Sat WMP-09_OREVE	<p>The BMPs referenced on Page 130 of the WMP on 10-7-2023 (WMP) Best Management Practices (BMPs) are Vegetation Management (VM) contracts to ensure compliance with environmental compliance requirements. aPAE makes every effort to comply with the BMPs. If the risk of vegetation in relation to our assets and potential non-compliance with CD 95 Rules 18.8, PCEA 4202 & 4203 or REBC Standard FAC-003-04 is greater than the potential environmental risk the BMPs are designed to mitigate. The priority vegetation work takes precedence, consistent with 10-7-2023 WMP, VM Priority Tag Procedure and 10-7-2023 WMP, Transmission Work Takeover Procedure and Hazard Notification Procedure, and referenced in the following figure provided in the WMP:</p> <ul style="list-style-type: none"> Page 814 - Figure PCEA 2.2.2.2 - PCEA's VM Transmission Inspection Process Page 820 - Figure PCEA 2.2.2.2 - PCEA's VM Transmission Second Patrol Process Page 823 - Figure PCEA 2.2.2.2 - PCEA's VM Distribution Inspection Process Page 824 - Figure PCEA 2.2.2.2 - PCEA's VM Distribution Second Patrol Process Page 811 - Figure PCEA 2.1.1 - Priority Tag and Work Tag <p>Examples where PCEA VM contractors might determine that adherence to BMPs is not "physically possible", and best use of available resources would be:</p> <ul style="list-style-type: none"> Limited Operator Periods (LOP), either due to weather-related soil conditions or potential biological impacts (i.e., "Safely consider" - There may be instances where the use of safety patrol bike mitigation may impact safety considerations - There may be instances where the use of safety patrol bike mitigation may impact safety considerations - There may be instances where the use of safety patrol bike mitigation may impact safety considerations. PCEA's vegetation contractor BMP adherence through several methods, including: <ul style="list-style-type: none"> a) Environmental Management (EM) reports submitted for all projects submitted for environmental review. b) Where there have been noticeable trends for a particular issue Category of BMP non-compliance, EM will occasionally perform focused field audits. c) PCEA's vegetation management operations Inspections and program managers perform field observations that may include compliance with applicable laws and regulations, as well as conformance to internal BMPs. d) Corrective actions associated with non-compliance of BMPs vary depending upon the level of risk of the specific issue. For BMP non-compliance that are non-compliance of an external regulatory requirement or commitment, the issue is reported in accordance with PCEA's Compliance Investigations and Self-Reporting Statutes 1) as applicable. Corrective actions may include any of the following: <ul style="list-style-type: none"> a) Contractors may be required to take additional training courses to ensure compliance and understanding of when and where BMPs are required. b) The paragraph on page 828 outlined above, the term "secondary patrol" is used synonymously with the use of Second Patrol and both terms refer to Second Patrol. The record with regulatory requirements and PCEA's Second Patrol Procedure (10-7-2023) is the VM Second Patrol program performance scheduled patrols approximately six months offset from the routine patrol (overhead primary and secondary distribution facilities). The primary patrol for secondary patrols is HPT and HFPA but exceptions are additional areas are included to address vegetation associated risks. In the paragraph on page 201, the term "Secondary Patrol" also refers to Second Patrol. c) In 2022, PCEA's second patrol cover the entire HPT area with the exception of those areas that were requested to be service contracts. PCEA can be contacted by environmental stewards, individual customer teams, permitting delays/exceptions or other concerns, active wildlife, and accessibility of the area. Areas that inspections have been requested for the continued work compliance, we work through our process to resolve the violation and execute the work. This would include everything from securing a permit to requesting work limits due to field conditions. d) In 2023, PCEA's second patrol cover the entire HPT area with the exception of those areas that may be requested to be service contracts. PCEA can be contacted by environmental stewards, individual customer teams, permitting delays/exceptions or other concerns, active wildlife, and accessibility of the area. Areas that inspections have been requested for the continued work compliance, we work through our process to resolve the violation and execute the work. This would include everything from securing a permit to requesting work limits due to field conditions. e) Second Patrol areas for 2023 will be the same as 2022 but will be evaluated for potential modifications starting in 2024. 	Holly Wichman	4/4/2023	4/1/2023	4/1/2023	1	NA	5.4.5	Overview of the Service Territory	Environmental Compliance and Permitting
40	CaPA	Set WMP-09	CaPa_Sat WMP-09	9	CaPa_Sat WMP-09_Q9	<p>P. 528 of PCEA's WMP states: "The primary target for secondary patrols is HPT and HFPA but exceptions and additional areas are included to appropriately address vegetation associated risks."</p> <p>a) Do you believe that in 2023 PCEA will use the same level of AOC, but we committed to doing in R4_PCEA-22-09, to identify areas subject to Second Patrol.</p> <p>b) What actions does PCEA take if it determines that a VM contractor has not consistently adhere to BMPs where practicable?</p> <p>c) Please list all instances in 2022 where PCEA determined that a VM contractor did not adhere to BMPs where BMPs were practicable, as defined above.</p> <p>d) Please list all instances in 2023 where PCEA took action to report or sanction a VM contractor for failing to adhere to BMPs where practicable.</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	0	NA	8.2.2.2	Vegetation Management and Inspections	Distribution Second Patrol
41	CaPA	Set WMP-09	CaPa_Sat WMP-09	10	CaPa_Sat WMP-09_Q10	<p>P. 542 of PCEA's WMP states: "In July 2021, PCEA launched a multi-year program to underground 10,000 overhead circuit miles through utility use areas."</p> <p>a) Since the July 2021 announcement of the 10,000 mile undergrounding program, has PCEA performed any studies or analyses to determine the planned scope of 10,000 circuit miles should be evaluated?</p> <p>b) Does PCEA plan to perform any studies or analyses during the 2023-2025 WMP period to determine whether 10,000 circuit miles will be the appropriate scope to target for undergrounding?</p> <p>c) If the answer to part (b) is no, please describe the planned scope and timing of such studies.</p> <p>d) If the answer to part (b) is no, please explain why not.</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	2	NA	8.1.2.2	Grid Design and System Handing	Undergrounding of Electric Lines and/or Equipment - Distribution
42	CaPA	Set WMP-09	CaPa_Sat WMP-09	11	CaPa_Sat WMP-09_Q11	<p>P. 569 of PCEA's WMP states: "on average, it takes 1.25 US install miles to replace 1 OH mile. However, at times, the multiplier can be 3:1 versus greater."</p> <p>a) Does PCEA target of 10,000 miles of undergrounding refer to the number of undergrounding miles to be moved underground, or the number of underground circuit miles to be installed?</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	0	NA	Appendix D	Areas for Continued Improvement	ACI PCEA-23-04 - Review Process of Planning Wildlife Mitigation
43	CaPA	Set WMP-09	CaPa_Sat WMP-09	12	CaPa_Sat WMP-09_Q12	<p>a) What is PCEA's current forecast cost per circuit-mile for undergrounding projects completed in the second half of 2023?</p> <p>b) Please provide examples to support your answer to part (a).</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	0	NA	8.1.2.2	Grid Design and System Handing	Undergrounding of Electric Lines and/or Equipment - Distribution
44	CaPA	Set WMP-09	CaPa_Sat WMP-09	13	CaPa_Sat WMP-09_Q13	<p>a) What is PCEA's forecast RSE for undergrounding completed in the second half of 2023?</p> <p>b) Please provide examples to support your answer to part (a).</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	1	NA	8.1.2.2	Grid Design and System Handing	Undergrounding of Electric Lines and/or Equipment - Distribution
45	CaPA	Set WMP-09	CaPa_Sat WMP-09	14	CaPa_Sat WMP-09_Q14	<p>a) What is PCEA's current forecast cost per circuit-mile for covered conductor projects completed in the second half of 2023?</p> <p>b) Please provide examples to support your answer to part (a).</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	1	NA	8.1.2.5	Grid Design and System Handing	Traditional Overhead Handing - Transmission Conductor and Distribution
46	CaPA	Set WMP-09	CaPa_Sat WMP-09	15	CaPa_Sat WMP-09_Q15	<p>a) What is PCEA's forecast RSE for covered conductor system handing completed in the second half of 2023?</p> <p>b) Please provide examples to support your answer to part (a).</p>	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	0	NA	8.1.2.5	Grid Design and System Handing	Traditional Overhead Handing - Transmission Conductor and Distribution
47	CaPA	Set WMP-09	CaPa_Sat WMP-09	16	CaPa_Sat WMP-09_Q16	<p>in response to data request CaliforniaPCEA-2022WMP-03 question 7b, PCEA states: "The primary approach for selecting miles used for risk prioritization methodology (1) 70 to 20 percent circuit segments based on the 2023 WDRM (2) and (3) Wildlife Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WDRM (4) and considering undergrounding feasibility."</p> <p>Please see column 16 of the WFE ranked circuit segments based on the 2022 WDRM (4), as described above. For each circuit segment, provide the following attributes as columns:</p> <ul style="list-style-type: none"> a) Circuit name b) Circuit segment name c) WDRM (4) risk score d) Feasibility factor e) WFE score as defined on p. 569 of PCEA's WMP 	Holly Wichman	4/4/2023	4/7/2023	4/7/2023	1	NA	7.2	Wildlife Mitigation Strategy Development	Wildlife Mitigation Strategy
48	CaPA	Set WMP-10	CaPa_Sat WMP-10	1	CaPa_Sat WMP-10_Q1	<p>Table 8-3 on p. 332 of PCEA's WMP states that PCEA will make capable for Open Conductor Detection (OCD) + 500 minutes in 2023, +400 minutes in 2024, and +300 minutes in 2025.</p> <p>a) Please explain the reasoning for the decreasing number of device marks capable for OCD from 2023-2025.</p> <p>b) Approximately how many circuit miles in the HPT will be protected by OCD at the end of 2023?</p>	Holly Wichman	4/4/2023	4/10/2023	4/10/2023	0	NA	8.1.1.2	Grid Design, Operations, and Maintenance	Targets
49	CaPA	Set WMP-10	CaPa_Sat WMP-10	2	CaPa_Sat WMP-10_Q2	<p>Table 8-5 on p. 338 of PCEA's WMP shows a forecast reduction in the number of EPSS events of one to two percent annually from 2022 to 2025.</p> <p>a) What factors does PCEA expect to contribute to the reduction in the number of EPSS events discussed above?</p> <p>b) Why is PCEA's forecast reduction in the number of EPSS events lower across the 2023-2025 period?</p> <p>c) Please provide any available workpapers that support PCEA's forecasts regarding the number of EPSS events annually in 2023-2025.</p>	Holly Wichman	4/4/2023	4/10/2023	4/10/2023	0	NA	8.1.1.3	Grid Design, Operations, and Maintenance	Performance Metrics Identified by the Electrical Corporation
50	CaPA	Set WMP-10	CaPa_Sat WMP-10	3	CaPa_Sat WMP-10_Q3	<p>a) Does PCEA forecast a change in the average duration of EPSS events during the 2023-2025 period?</p> <p>b) If the answer to part (a) is yes, provide the expected average duration of EPSS events for 2023, 2024, and 2025.</p> <p>c) If the answer to part (a) is no, please explain why not.</p> <p>d) Please provide any available workpapers that support PCEA's forecasts regarding the duration of EPSS events in 2023-2025.</p>	Holly Wichman	4/4/2023	4/10/2023	4/10/2023	0	NA	8.1.1.3	Grid Design, Operations, and Maintenance	Performance Metrics Identified by the Electrical Corporation

51	C&PA	Set WMP-10	CaPa_Set WMP-10_4	4	CaPa_Set WMP-10_Q4	<p>NDSP&S 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 and utility user experience, encompassing functional testing, environmental testing, and long-term resilience testing. Learnings were immediately applied to optimize sensor configuration.</p> <p>Key learnings from the Maricopa installation and testing include:</p> <ul style="list-style-type: none"> • Sensors – we installed over 25 sensors and tested their intended functionality for accuracy and reliability. These are the types of tools proposed. • Reproducibility testing verifies the consistency and reliability of sensor measurements by repeating measurements multiple times and checking the results for consistency. The test criterion ensures that the sensing device provides consistent and reproducible measurements. • Stability testing evaluates the sensor's ability to detect and respond to small changes or variations in input. This is achieved by varying the input parameters and verifying the sensor's output changes accordingly. • Accuracy testing validates the sensor's accuracy by comparing its readings to known values or standards. • The key takeaways to test include trends of sensor devices to verify sensor specifications for operating steps and performance. During our testing, approximately 50% tested successfully. Keep in mind, none of these devices were specifically developed to be installed on 115kV electric towers. The most tested due to long exposure to high latitudes EAF (Electric Magnetic Fields) disturbances, or environmental conditions (i.e., temperature, humidity, dust, sea, fog, wind, vibration). Based on the extensive testing conducted before field installation (i.e., best environment and after installation at Maricopa, and the lessons learned from these results, it has been determined that relying solely on manufacturer specifications may not be sufficient. – It is recommended to conduct testing of the equipment based on the specific application requirements in the specific environment of install to ensure reliable performance. For example, a specific sensor manufacturer may specify an 800' heat detection range, but our tower installation use case, the data above 600 feet in the maximum functional operating distance below we get false alarms. Due to the disparity between the manufacturer specifications and the actual field conditions, it is recommended to conduct testing of the equipment based on a specific qualification of the input at the site. The deployed sensor system is designed to actively monitor the environment for potential wildfire risk. For instance, the sensors are capable of detecting temperature fluctuations into power lines or air heating agents. When such an event is detected, the sensor will trigger an alarm at the location, allowing for potential detection to be made such as encountering the tower before propagation for heat ahead. 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-104</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-104</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-104</p>	0	NA	8.1.2.6.2	Grid Design and System Hardening	Emerging Grid Hardening Technology Installations and Pilets
52	C&PA	Set WMP-10	CaPa_Set WMP-10_5	5	CaPa_Set WMP-10_Q5	<p>• P. 387 of PG&E's WMP states, "If deployed, DTFS-FAST could have a significant impact on wildfire risk where deployed."</p> <ul style="list-style-type: none"> a) Please provide any photographs or studies to support your answer to part (a). b) Please provide any workpapers or studies to support your answer to part (a). 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-105</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-105</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-105</p>	0	NA	8.1.2.6.1	Grid Design and System Hardening	Emerging Grid Hardening Technology Installations and Pilets
53	C&PA	Set WMP-10	CaPa_Set WMP-10_6	6	CaPa_Set WMP-10_Q6	<p>• P. 464 of PG&E's WMP states, "In 2022, we reduced the Customer Average Interruption Duration Index (CAIDI) and Customer Experiencing a Sustained Outage (CESO) for customers served by EPSS-capable lines when compared to data from the 2021 program pilot."</p> <ul style="list-style-type: none"> a) Please provide the CAIDI values for all HFTD customers for each year from 2018-2022. b) Please provide the CESO values for all HFTD customers for each year from 2018-2022. 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-106</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-106</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-106</p>	1	NA	8.1.8.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
54	C&PA	Set WMP-10	CaPa_Set WMP-10_7	7	CaPa_Set WMP-10_Q7	<p>• P. 464 of PG&E's WMP states, "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> <ul style="list-style-type: none"> a) Average response time b) 25th percentile response time c) Median (50th percentile) response time d) 75th percentile response time e) Longest response time 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-107</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-107</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-107</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
55	C&PA	Set WMP-10	CaPa_Set WMP-10_8	8	CaPa_Set WMP-10_Q8	<p>• P. 464 of PG&E's WMP states, "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> <ul style="list-style-type: none"> a) Average response time b) 25th percentile response time c) Median (50th percentile) response time d) 75th percentile response time e) Longest response time 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-108</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-108</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-108</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
56	C&PA	Set WMP-10	CaPa_Set WMP-10_9	9	CaPa_Set WMP-10_Q9	<p>• P. 464 of PG&E's WMP states, "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 tested in 2022, provide the following:</p> <ul style="list-style-type: none"> a) Average response time b) 25th percentile response time c) Longest response time 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-109</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-109</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-109</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
57	C&PA	Set WMP-10	CaPa_Set WMP-10_10	10	CaPa_Set WMP-10_Q10	<p>• P. 441 of PG&E's WMP states, "We plan to implement a QA quality assurance program for systems inspections."</p> <ul style="list-style-type: none"> a) Please discuss the progress PG&E has made so far in implementing a QA program for systems inspections. b) When does PG&E expect to implement a QA program for systems inspections? c) Please describe the main features of the QA program that PG&E plans to implement. d) What are the possible limitations of the QA program that PG&E plans to implement? 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-110</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-110</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-110</p>	0	NA	8.1.6.1	Quality Assurance and Quality Control	Quality Assurance
58	C&PA	Set WMP-10	CaPa_Set WMP-10_11	11	CaPa_Set WMP-10_Q11	<p>• P. 441 of PG&E's WMP states, "We plan to update existing OQ (quality verification) procedures for systems inspections."</p> <ul style="list-style-type: none"> a) Please discuss the progress PG&E has made so far in updating existing OQ procedures for systems inspections. b) When does PG&E expect to complete updates to existing OQ procedures for systems inspections? c) Please describe the planned updates will increase PG&E's existing OQ procedures. 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-111</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-111</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-111</p>	0	NA	8.1.6.1	Quality Assurance and Quality Control	Quality Assurance
59	C&PA	Set WMP-10	CaPa_Set WMP-10_12	12	CaPa_Set WMP-10_Q12	<p>• P. 450 of PG&E's WMP states, "Along with reducing wildfire risk related to backing ignition tags will be completed in compliance with GO 95 Rule 18 (includes: testing, labeling, external factors)."</p> <ul style="list-style-type: none"> a) What external factors does PG&E anticipate may prevent from completing HFTDP&A ignition tag tags in compliance with GO 95 Rule 18 (includes)? b) For each external factor identified in part (a), what is PG&E's plan to mitigate the effect the external factor may have? c) During the period from 2022-2025, will PG&E complete new ignition tag tags in compliance with GO 95 Rule 18 (includes for those ignition-tag tags included outside the HFTDP&A)? Please explain your answer. 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-112</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-112</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-112</p>	0	NA	8.1.7.2	Open Work Orders	Open Work Orders – Distribution Tags
60	C&PA	Set WMP-10	CaPa_Set WMP-10_13	13	CaPa_Set WMP-10_Q13	<p>Table PG&E-1.7-1 on p. 451 of PG&E's WMP states, "Field Safety Readiness (FSR) performed annually on line deployment tags to confirm Priority B notification has not occurred to Priority A or B."</p> <ul style="list-style-type: none"> a) Include PG&E's current procedures and policies, can FSR be scaled to include the priority of a notification? Please explain your answer. b) Under PG&E's current procedures and policies, can FSR be scaled to include the due date of a notification beyond GO 95 rule 18 (includes)? Please explain your answer. 	Holy Wellman	4/4/2023	4/10/2023	4/10/2023	<p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-113</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-113</p> <p>https://www.sps.com/eng_prod/commerce/fields/fields/wildfire/wildfire-map/fields/wildfire-map-113</p>	0	NA	8.1.7.2	Open Work Orders	Open Work Orders – Distribution Tags

61	CA/PA	Set WMP-10	CaPa_Set WMP-10_C14	14	CaPa_Set WMP-10_C14	<ul style="list-style-type: none"> Table PG&E-1.7.3 on p. 456 of PG&E's WMP has entry cells in the HFRAs on p. 456. Please provide the number of open distribution work orders categorized by FTD for the time 01/2020 through 04/2022 and be tied to the ODR data provided by Energy Safety on March 1, 2022. Number of Open Distribution Work Orders by FTD Tier 	Holly Holzman	44/2023	41/2023	41/2023	https://www.sfpuc.org/open-records-requests	0	NA	8.17.2	Open Work Orders	Open Work Orders - Distribution Tags
62	CA/PA	Set WMP-10	CaPa_Set WMP-10_C15	15	CaPa_Set WMP-10_C15	<ul style="list-style-type: none"> In response to data request CaliforniaPG&E-2023WMP-06-007, question 1: PG&E states, "There has been a 100% review of all inspections that are part of the inspection process. The inspector completes the inspection and report back performed for community meetings." When the 100% review is complete, please provide a summary of findings for the 100% review. When the 100% review is complete, please provide a summary of findings for the 100% review. When the 100% review is complete, please provide a summary of findings for the 100% review. 	Holly Holzman	44/2023	41/2023	41/2023	https://www.sfpuc.org/open-records-requests	0	NA	8.13	Asset Inspections	NA
63	TURN	001	TURN_001	1	TURN_001_01	<ul style="list-style-type: none"> In the PG&E's 2023-2025 WMP does not provide a comparison of the RBE for underpinning compared to the RBE of alternative mitigation. However, the information, RBE at the branch and aggregated level for wildfire mitigation including underpinning, is provided in PG&E's 2023 General Risk Case - as required by Energy Division Order EQD 001. Is the 2023 WMP explaining how PG&E performs this analysis. PG&E evaluate the outputs from its Wildfire Distribution Risk Model (WDRM) to determine the highest risk miles in its service territory. The primary approach for determining wildfire risk miles used have a probability methodology: (1) the top 20 percent of critical segments based on the 2021 WDRM v2; and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WDRM v3. 	Tom Long	44/2023	47/2023	47/2023	https://www.sfpuc.org/open-records-requests	1	NA	Appendix D	Area for Continued Improvement	ACI PG&E-20-34 - Review Process of Posturing Wildfire Mitigation
64	TURN	002	TURN_002	1	TURN_002_01	<ul style="list-style-type: none"> Please provide the attachment to the response to CaliforniaPG&E-2023WMP-06-007 which PG&E has labeled as confidential. 	Tom Long	44/2023	47/2023	47/2023	https://www.sfpuc.org/open-records-requests	1	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuel Management
65	TURN	002	TURN_002	2	TURN_002_02	<ul style="list-style-type: none"> Please provide the attachment to the response to CaliforniaPG&E-2023WMP-06-008, which PG&E has labeled as confidential. 	Tom Long	44/2023	47/2023	47/2023	https://www.sfpuc.org/open-records-requests	1	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuel Management
66	TURN	002	TURN_002	3	TURN_002_03	<ul style="list-style-type: none"> Please provide the attachment to the response to CaliforniaPG&E-2023WMP-06-009, which PG&E has labeled as confidential. 	Tom Long	44/2023	47/2023	47/2023	https://www.sfpuc.org/open-records-requests	0	NA	2023 WMP Section 7.15.2	Vegetation Management and Inspections	Enhanced Vegetation Management
67	TURN	002	TURN_002	4	TURN_002_04	<ul style="list-style-type: none"> Please provide the 2023-2028 Underpinning Workorder referenced on page 11 of PG&E's WMP and in footnote 203, which indicates that PG&E has labeled the Workorder confidential. 	Tom Long	44/2023	47/2023	47/2023	https://www.sfpuc.org/open-records-requests	1	Yes	Appendix D	Area for Continued Improvement	ACI PG&E-20-14 - Progress and Update on Underpinning and Risk Positioning
68	CPUC - SPD (Safety Policy Division)	002	CPUC - SPD (Safety Policy Division)_002	1	CPUC - SPD (Safety Policy Division)_002_01	<ul style="list-style-type: none"> The Confidential attachment is being provided pursuant to a confidentiality declaration under 18421.147 (b)(3). Confidentiality Declaration: "We request that you, the CPUC, please do not disclose or disseminate this information to any third party without the written consent of PG&E." 	Kevin Miller	44/2023	45/2023	44/2023	https://www.sfpuc.org/open-records-requests	1	NA	Appendix D	Area for Continued Improvement	ACI PG&E-20-18 - Progress and Update on Underpinning and Risk Positioning
69	CEIS	001	CEIS_001	1	CEIS_001_01	<ul style="list-style-type: none"> Considering PG&E's Free Assessment Tool (FAT) 2023, WMP, RD, Appendix A of PG&E-22-1A_RAN1_CONF'06PG&E's Free Assessment Tool (FAT) 2023, WMP, RD, Appendix A of PG&E-22-1A_RAN1_CONF'06 What inspection program, if any, is used in Section 8.2.3 of the TAT? Is PG&E not using the TAT, why is it discontinued to use? 	Cole Long	45/2023	41/2023	41/2023	https://www.sfpuc.org/open-records-requests	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
70	CEIS	001	CEIS_001	2	CEIS_001_02	<ul style="list-style-type: none"> Since the Target Tree Species study was completed in March 31, 2022, what actions has PG&E taken and will take to implement the tree recommendations? Regional specificity to each of the tree recommendations. What inspections have been and will be made to the TAT in response to these recommendations and generally (i.e., not in response to these recommendations)? If PG&E is not using or planning to use the TAT, did PG&E make any changes/improvements to the TAT before it ceased to be used? If so, what were those changes/improvements? 	Cole Long	45/2023	41/2023	41/2023	https://www.sfpuc.org/open-records-requests	0	NA	8.2.3.6	Vegetation Management and Inspections	High-Risk Species
71	CEIS	001	CEIS_001	3	CEIS_001_03	<ul style="list-style-type: none"> Regarding PG&E's Focused Tree Inspections pilot: Describe the current state of development for the pilot area. PG&E's Areas of Concern (AOC) and "hotspots" have been identified and a vegetation inspection will be initiated in the near future. (Appendix A of PG&E-22-1A_RAN1_CONF'06) Detail the criteria PG&E has used in developing the pilot area. PG&E's Areas of Concern (AOC) and "hotspots" were identified based on vegetation inspection results, and vegetation inspection results were used to identify hotspots. What elements, processes, procedures, and tools in vegetation management personnel workflow are being used to support the pilot? What are the key risks to the pilot? What are the key risks to the pilot? What are the key risks to the pilot? What are the key risks to the pilot? What are the key risks to the pilot? What are the key risks to the pilot? 	Cole Long	45/2023	41/2023	41/2023	https://www.sfpuc.org/open-records-requests	3	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

71	OEIS	001	OEIS_001	3 SUPP	OEIS_001_03 SUPP	<p>Regarding PG&E's Focused Tree Inspections pilot</p> <ol style="list-style-type: none"> Describe the current state of development for the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529) and the suspected shrubs for consideration. Detail the criteria PG&E has used to develop the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). What standards, processes, procedures, and tools are vegetation management personnel using/hall use to perform tree risk assessments for this pilot? Will PG&E be using its One VM Tool for reworking for this pilot? If not, what system will PG&E use for reworking for this pilot? When is PG&E conducting its Focused Tree Inspections pilot? PG&E has not yet begun its pilot, where will PG&E be conducting its Focused Tree Inspections pilot? How many critical risks are in scope for the pilot? View the pilot area previously reviewed for Enhanced Vegetation Management (EVM)? For each Critical Protection Zone (CPZ) the pilot area provide the: <ol style="list-style-type: none"> CPZ name The Weighted Risk Score from PG&E's most recent version of the EVM Tree-Weighted Prioritization List. The Weighted Risk Score from PG&E's most recent version of the EVM Tree-Weighted Prioritization List. Does PG&E have a plan to continue its Focused Tree Inspections assuming the pilot is successful? If so, detail these plans, including how many critical risks PG&E plans to inspect under the program in 2023 and 2024. Provide a GIS layer of the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). An applicable, provide the following attributes for each polygon: <ol style="list-style-type: none"> Number of overhead circuit miles within the polygon Ignition Risk PSRS Risk Contact from Vegetation Likelihood of Ignition 	Colin Long	4/5/2023	4/19/2023	4/19/2023	0	NA	8.2.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
71	OEIS	001	OEIS_001	3 SUPP.2	OEIS_001_03 SUPP.2	<p>Regarding PG&E's Focused Tree Inspections pilot</p> <ol style="list-style-type: none"> Describe the current state of development for the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529) and the suspected shrubs for consideration. Detail the criteria PG&E has used to develop the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). What standards, processes, procedures, and tools are vegetation management personnel using/hall use to perform tree risk assessments for this pilot? Will PG&E be using its One VM Tool for reworking for this pilot? If not, what system will PG&E use for reworking for this pilot? When is PG&E conducting its Focused Tree Inspections pilot? PG&E has not yet begun its pilot, where will PG&E be conducting its Focused Tree Inspections pilot? How many critical risks are in scope for the pilot? View the pilot area previously reviewed for Enhanced Vegetation Management (EVM)? For each Critical Protection Zone (CPZ) the pilot area provide the: <ol style="list-style-type: none"> CPZ name The Weighted Risk Score from PG&E's most recent version of the EVM Tree-Weighted Prioritization List. The Weighted Risk Score from PG&E's most recent version of the EVM Tree-Weighted Prioritization List. Does PG&E have a plan to continue its Focused Tree Inspections assuming the pilot is successful? If so, detail these plans, including how many critical risks PG&E plans to inspect under the program in 2023 and 2024. Provide a GIS layer of the pilot area. PG&E's Areas of Concern (AOC) and "polygons where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize priority" (page 529). An applicable, provide the following attributes for each polygon: <ol style="list-style-type: none"> Number of overhead circuit miles within the polygon Ignition Risk PSRS Risk Contact from Vegetation Likelihood of Ignition 	Colin Long	4/5/2023	4/27/2023	4/27/2023	2	NA	8.2.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
72	OEIS	001	OEIS_001	4	OEIS_001_04	<p>Regarding PG&E's Tree Removal Inventory on page 530. PG&E states that it will "remove, or re-locate trees identified in the EVM program."</p> <ol style="list-style-type: none"> Has PG&E determined whether a tree should be 1) removed or relocated based on the existing risk assessment or 2) re-located based on site conditions? What standards, processes, procedures, and tools are vegetation management personnel using/hall use to perform tree risk assessments for this program? 	Colin Long	4/5/2023	4/19/2023	4/19/2023	0	NA	8.2.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
73	OEIS	001	OEIS_001	5	OEIS_001_05	<p>Regarding Wood Management On page 531. PG&E says that its wood management program addresses large wood generated by PG&E's VM activities resulting primarily from activities and wood generated by the EVM Program.</p> <ol style="list-style-type: none"> Considering the EVM program has been documented, does the wood management program: <ol style="list-style-type: none"> Address large wood generated from the EVM program that has not otherwise addressed? Have a large wood assessment when generated by other VM programs, including Distribution Management Plan (DMP) for Overhead Maintenance and Focused Tree Inspections? 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 wood are placed in a manner that does not: <ol style="list-style-type: none"> Block or hinder ingress or egress. Infringe on RCRI 4291 defensible space clearance. Impede watercourses and drainage. Conflict with property owner's interests. Otherwise create a hazard. 	Colin Long	4/5/2023	4/19/2023	4/19/2023	1	NA	8.2.3	Vegetation Management and Inspections	Wood and Stump Management
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 GD 95," then goes on to describe the recommended minimum clearances set forth in Appendix E of GD 95.</p> <ol style="list-style-type: none"> In the HTFS, does PG&E utilize the recommended clearances? If so, does not exceed how PG&E implements the recommended "enhanced" clearances, clarify how PG&E implements the recommended clearances and the Appendix E of GD 95. 	Colin Long	4/5/2023	4/19/2023	4/19/2023	0	NA	8.2.3.3	Vegetation Management and Inspections	Clearance
75	OEIS	001	OEIS_001	7	OEIS_001_07	<p>Regarding Appendix B Items That Are Commonly Omitted or "By Review" Only Provide the following, which are defined in the 2023-2028 Wildlife Mitigation Plan Technical Guidelines, Appendix B. If the data is either Formulas, Tables, graphs, charts provide in MS Excel. If the data is text-based, provide the information in MS Word.</p> <ol style="list-style-type: none"> Detailed Model Documentation for each model and sub-model (discussed in PG&E's response to Section E.1.2 Summary of Risk Models Technical documentation should be provided according to ASTM E 1472 - Standard Guide for Documenting Complex Software for Risk Models). Include a list of assumptions and known model limitations according to ASTM E 1999 - Standard Guide for Documenting Assumptions and Limitations of Documentation of Risk Models. Provide validation and verification documentation according to the SIFRS Guidelines for Calculating a Fire Model for a Given Application or ASTM E 1555 - Standard Guide for Evaluating the Predictive Capability of Documentation of Risk Models. At a minimum, the documentation must include 2: <ol style="list-style-type: none"> Proposed or the model/system identification. Model version. Theoretical foundation. Mathematical foundation. Model validation. Model verification. Model verification. Model verification. Model verification. For each model, provide documentation of the following model validation studies: <ol style="list-style-type: none"> Validation data. Model verification. Model validation. Model verification. Additional Models Supporting Risk Calculations: <ol style="list-style-type: none"> For each additional model that supports the risk calculations, provide weather analysis and fuel conditions. Calculation of Risk and Risk Components, Likelihoods Mean statistical information on: <ol style="list-style-type: none"> Ignition Likelihood. Equipment Likelihood of Ignition. Contact from Vegetation Likelihood of Ignition. Contact from Vegetation Likelihood of Ignition. 	Colin Long	4/5/2023	4/19/2023	4/19/2023	4	NA	Appendix B	Supporting Documentation for Risk Methodology and Assessment Definitions	Detailed Model Documentation
76	OEIS	001	OEIS_001	8	OEIS_001_08	<p>Regarding Appendix B Items That Are Commonly Omitted or "By Review" Only Provide the following, which are defined in the 2023-2028 Wildlife Mitigation Plan Technical Guidelines, Appendix B. If the data is either Formulas, Tables, graphs, charts provide in MS Excel. If the data is text-based, provide the information in MS Word.</p> <ol style="list-style-type: none"> Detailed Model Documentation for each model and sub-model (discussed in PG&E's response to Section E.1.2 Summary of Risk Models Technical documentation should be provided according to ASTM E 1472 - Standard Guide for Documenting Complex Software for Risk Models). Include a list of assumptions and known model limitations according to ASTM E 1999 - Standard Guide for Documenting Assumptions and Limitations of Documentation of Risk Models. Provide validation and verification documentation according to the SIFRS Guidelines for Calculating a Fire Model for a Given Application or ASTM E 1555 - Standard Guide for Evaluating the Predictive Capability of Documentation of Risk Models. At a minimum, the documentation must include 2: <ol style="list-style-type: none"> Proposed or the model/system identification. Model version. Theoretical foundation. Mathematical foundation. Model validation. Model verification. Model verification. Model verification. Model verification. For each model, provide documentation of the following model validation studies: <ol style="list-style-type: none"> Validation data. Model verification. Model validation. Model verification. Additional Models Supporting Risk Calculations: <ol style="list-style-type: none"> For each additional model that supports the risk calculations, provide weather analysis and fuel conditions. Calculation of Risk and Risk Components, Likelihoods Mean statistical information on: <ol style="list-style-type: none"> Ignition Likelihood. Equipment Likelihood of Ignition. Contact from Vegetation Likelihood of Ignition. Contact from Vegetation Likelihood of Ignition. 	Colin Long	4/5/2023	4/24/2023	4/24/2023	1	NA	8.1.2	Risk Methodology and Assessment	Summary of Risk Models
77	OEIS	001	OEIS_001	9	OEIS_001_09	<p>Regarding Portfolio Level Risk Analysis and Risk Spread Efficiency</p> <ol style="list-style-type: none"> Provide an example of how risks are aggregated to a portfolio level and if there are interdependencies between the risks are explicitly captured in the portfolio. Response should be provided in Excel. Also include the level of aggregation for the portfolio (e.g., asset, geographical, business). Are risk values calculated on a portfolio level? If so, provide an example. Provide a comprehensive and interpretive diagram of the portfolio level risk breakdown used in PG&E's WMP Appendix B, Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I, Appendix J, Appendix K, Appendix L, Appendix M, Appendix N, Appendix O, Appendix P, Appendix Q, Appendix R, Appendix S, Appendix T, Appendix U, Appendix V, Appendix W, Appendix X, Appendix Y, Appendix Z, Appendix AA, Appendix AB, Appendix AC, Appendix AD, Appendix AE, Appendix AF, Appendix AG, Appendix AH, Appendix AI, Appendix AJ, Appendix AK, Appendix AL, Appendix AM, Appendix AN, Appendix AO, Appendix AP, Appendix AQ, Appendix AR, Appendix AS, Appendix AT, Appendix AU, Appendix AV, Appendix AW, Appendix AX, Appendix AY, Appendix AZ, Appendix BA, Appendix BB, Appendix BC, Appendix BD, Appendix BE, Appendix BF, Appendix BG, Appendix BH, Appendix BI, Appendix BJ, Appendix BK, Appendix BL, Appendix BM, Appendix BN, Appendix BO, Appendix BP, Appendix BQ, Appendix BR, Appendix BS, Appendix BT, Appendix BU, Appendix BV, Appendix BW, Appendix BX, Appendix BY, Appendix BZ, Appendix CA, Appendix CB, Appendix CC, Appendix CD, Appendix CE, Appendix CF, Appendix CG, Appendix CH, Appendix CI, Appendix CJ, Appendix CK, Appendix CL, Appendix CM, Appendix CN, Appendix CO, Appendix CP, Appendix CQ, Appendix CR, Appendix CS, Appendix CT, Appendix CU, Appendix CV, Appendix CW, Appendix CX, Appendix CY, Appendix CZ, Appendix DA, Appendix DB, Appendix DC, Appendix DD, Appendix DE, Appendix DF, Appendix DG, Appendix DH, Appendix DI, Appendix DJ, Appendix DK, Appendix DL, Appendix DM, Appendix DN, Appendix DO, Appendix DP, Appendix DQ, Appendix DR, Appendix DS, Appendix DT, Appendix DU, Appendix DV, Appendix DW, Appendix DX, Appendix DY, Appendix DZ, Appendix EA, Appendix EB, Appendix EC, Appendix ED, Appendix EE, Appendix EF, Appendix EG, Appendix EH, Appendix EI, Appendix EJ, Appendix EK, Appendix EL, Appendix EM, Appendix EN, Appendix EO, Appendix EP, Appendix EQ, Appendix ER, Appendix ES, Appendix ET, Appendix EU, Appendix EV, Appendix EW, Appendix EX, Appendix EY, Appendix EZ, Appendix FA, Appendix FB, Appendix FC, Appendix FD, Appendix FE, Appendix FF, Appendix FG, Appendix FH, Appendix FI, Appendix FJ, Appendix FK, Appendix FL, Appendix FM, Appendix FN, Appendix FO, Appendix FP, Appendix FQ, Appendix FR, Appendix FS, Appendix FT, Appendix FU, Appendix FV, Appendix FW, Appendix FX, Appendix FY, Appendix FZ, Appendix GA, Appendix GB, Appendix GC, Appendix GD, Appendix GE, Appendix GF, Appendix GG, Appendix GH, Appendix GI, Appendix GJ, Appendix GK, Appendix GL, Appendix GM, Appendix GN, Appendix GO, Appendix GP, Appendix GQ, Appendix GR, Appendix GS, Appendix GT, Appendix GU, Appendix GV, Appendix GW, Appendix GX, Appendix GY, Appendix GZ, Appendix HA, Appendix HB, Appendix HC, Appendix HD, Appendix HE, Appendix HF, Appendix HG, Appendix HH, Appendix HI, Appendix HJ, Appendix HK, Appendix HL, Appendix HM, Appendix HN, Appendix HO, Appendix HP, Appendix HQ, Appendix HR, Appendix HS, Appendix HT, Appendix HU, Appendix HV, Appendix HW, Appendix HX, Appendix HY, Appendix HZ, Appendix IA, Appendix IB, Appendix IC, Appendix ID, Appendix IE, Appendix IF, Appendix IG, Appendix IH, Appendix II, Appendix IJ, Appendix IK, Appendix IL, Appendix IM, Appendix IN, Appendix IO, Appendix IP, Appendix IQ, Appendix IR, Appendix IS, Appendix IT, Appendix IU, Appendix IV, Appendix IW, Appendix IX, Appendix IY, Appendix IZ, Appendix JA, Appendix JB, Appendix JC, Appendix JD, Appendix JE, Appendix JF, Appendix JG, Appendix JH, Appendix JI, Appendix JJ, Appendix JK, Appendix JL, Appendix JM, Appendix JN, Appendix JO, Appendix JP, Appendix JQ, Appendix JR, Appendix JS, Appendix JT, Appendix JU, Appendix JV, Appendix JW, Appendix JX, Appendix JY, Appendix JZ, Appendix KA, Appendix KB, Appendix KC, Appendix KD, Appendix KE, Appendix KF, Appendix KG, Appendix KH, Appendix KI, Appendix KJ, Appendix KK, Appendix KL, Appendix KM, Appendix KN, Appendix KO, Appendix KP, Appendix KQ, Appendix KR, Appendix KS, Appendix KT, Appendix KU, Appendix KV, Appendix KW, Appendix KX, Appendix KY, Appendix KZ, Appendix LA, Appendix LB, Appendix LC, Appendix LD, Appendix LE, Appendix LF, Appendix LG, Appendix LH, Appendix LI, Appendix LJ, Appendix LK, Appendix LL, Appendix LM, Appendix LN, Appendix LO, Appendix LP, Appendix LQ, Appendix LR, Appendix LS, Appendix LT, Appendix LU, Appendix LV, Appendix LW, Appendix LX, Appendix LY, Appendix LZ, Appendix MA, Appendix MB, Appendix MC, Appendix MD, Appendix ME, Appendix MF, Appendix MG, Appendix MH, Appendix MI, Appendix MJ, Appendix MK, Appendix ML, Appendix MN, Appendix MO, Appendix MP, Appendix MQ, Appendix MR, Appendix MS, Appendix MT, Appendix MU, Appendix MV, Appendix MW, Appendix MX, Appendix MY, Appendix MZ, Appendix NA, Appendix NB, Appendix NC, Appendix ND, Appendix NE, Appendix NF, Appendix NG, Appendix NH, Appendix NI, Appendix NJ, Appendix NK, Appendix NL, Appendix NM, Appendix NN, Appendix NO, Appendix NP, Appendix NQ, Appendix NR, Appendix NS, Appendix NT, Appendix NU, Appendix NV, Appendix NW, Appendix NX, Appendix NY, Appendix NZ, Appendix OA, Appendix OB, Appendix OC, Appendix OD, Appendix OE, Appendix OF, Appendix OG, Appendix OH, Appendix OI, Appendix OJ, Appendix OK, Appendix OL, Appendix OM, Appendix ON, Appendix OO, Appendix OP, Appendix OQ, Appendix OR, Appendix OS, Appendix OT, Appendix OU, Appendix OV, Appendix OW, Appendix OX, Appendix OY, Appendix OZ, Appendix PA, Appendix PB, Appendix PC, Appendix PD, Appendix PE, Appendix PF, Appendix PG, Appendix PH, Appendix PI, Appendix PJ, Appendix PK, Appendix PL, Appendix PM, Appendix PN, Appendix PO, Appendix PP, Appendix PQ, Appendix PR, Appendix PS, Appendix PT, Appendix PU, Appendix PV, Appendix PW, Appendix PX, Appendix PY, Appendix PZ, Appendix QA, Appendix QB, Appendix QC, Appendix QD, Appendix QE, Appendix QF, Appendix QG, Appendix QH, Appendix QI, Appendix QJ, Appendix QK, Appendix QL, Appendix QM, Appendix QN, Appendix QO, Appendix QP, Appendix QQ, Appendix QR, Appendix QS, Appendix QT, Appendix QU, Appendix QV, Appendix QW, Appendix QX, Appendix QY, Appendix QZ, Appendix RA, Appendix RB, Appendix RC, Appendix RD, Appendix RE, Appendix RF, Appendix RG, Appendix RH, Appendix RI, Appendix RJ, Appendix RK, Appendix RL, Appendix RM, Appendix RN, Appendix RO, Appendix RP, Appendix RQ, Appendix RR, Appendix RS, Appendix RT, Appendix RU, Appendix RV, Appendix RW, Appendix RX, Appendix RY, Appendix RZ, Appendix SA, Appendix SB, Appendix SC, Appendix SD, Appendix SE, Appendix SF, Appendix SG, Appendix SH, Appendix SI, Appendix SJ, Appendix SK, Appendix SL, Appendix SM, Appendix SN, Appendix SO, Appendix SP, Appendix SQ, Appendix SR, Appendix SS, Appendix ST, Appendix SU, Appendix SV, Appendix SW, Appendix SX, Appendix SY, Appendix SZ, Appendix TA, Appendix TB, Appendix TC, Appendix TD, Appendix TE, Appendix TF, Appendix TG, Appendix TH, Appendix TI, Appendix TJ, Appendix TK, Appendix TL, Appendix TM, Appendix TN, Appendix TO, Appendix TP, Appendix TQ, Appendix TR, Appendix TS, Appendix TT, Appendix TU, Appendix TV, Appendix TW, Appendix TX, Appendix TY, Appendix TZ, Appendix UA, Appendix UB, Appendix UC, Appendix UD, Appendix UE, Appendix UF, Appendix UG, Appendix UH, Appendix UI, Appendix UJ, Appendix UK, Appendix UL, Appendix UM, Appendix UN, Appendix UO, Appendix UP, Appendix UQ, Appendix UR, Appendix US, Appendix UT, Appendix UV, Appendix UW, Appendix UX, Appendix UY, Appendix UZ, Appendix VA, Appendix VB, Appendix VC, Appendix VD, Appendix VE, Appendix VF, Appendix VG, Appendix VH, Appendix VI, Appendix VJ, Appendix VK, Appendix VL, Appendix VM, Appendix VN, Appendix VO, Appendix VP, Appendix VQ, Appendix VR, Appendix VS, Appendix VT, Appendix VU, Appendix VV, Appendix VW, Appendix VX, Appendix VY, Appendix VZ, Appendix WA, Appendix WB, Appendix WC, Appendix WD, Appendix WE, Appendix WF, Appendix WG, Appendix WH, Appendix WI, Appendix WJ, Appendix WK, Appendix WL, Appendix WM, Appendix WN, Appendix WO, Appendix WP, Appendix WQ, Appendix WR, Appendix WS, Appendix WT, Appendix WU, Appendix WV, Appendix WW, Appendix WX, Appendix WY, Appendix WZ, Appendix XA, Appendix XB, Appendix XC, Appendix XD, Appendix XE, Appendix XF, Appendix XG, Appendix XH, Appendix XI, Appendix XJ, Appendix XK, Appendix XL, Appendix XM, Appendix XN, Appendix XO, Appendix XP, Appendix XQ, Appendix XR, Appendix XS, Appendix XT, Appendix XU, Appendix XV, Appendix XW, Appendix XX, Appendix XY, Appendix XZ, Appendix YA, Appendix YB, Appendix YC, Appendix YD, Appendix YE, Appendix YF, Appendix YG, Appendix YH, Appendix YI, Appendix YJ, Appendix YK, Appendix YL, Appendix YM, Appendix YN, Appendix YO, Appendix YP, Appendix YQ, Appendix YR, Appendix YS, Appendix YT, Appendix YU, Appendix YV, Appendix YW, Appendix YX, Appendix YY, Appendix YZ, Appendix ZA, Appendix ZB, Appendix ZC, Appendix ZD, Appendix ZE, Appendix ZF, Appendix ZG, Appendix ZH, Appendix ZI, Appendix ZJ, Appendix ZK, Appendix ZL, Appendix ZM, Appendix ZN, Appendix ZO, Appendix ZP, Appendix ZQ, Appendix ZR, Appendix ZS, Appendix ZT, Appendix ZU, Appendix ZV, Appendix ZW, Appendix ZX, Appendix ZY, Appendix ZZ. 	Colin Long	4/5/2023	4/19/2023	4/19/2023	2	NA	7.1.4.1	Wildlife Mitigation Strategy Development	Identifying and Evaluating Mitigation

86	CaPA	Set WMP-11	CaPA_Sat WMP-11	3	CaPA_Set WMP-11_Q3	<p>POEGE objects to the portions of the request relating to Major Work Category (MWC) 49R as beyond the scope of the proposed Netbalancing and without having the objection. POEGE responds as follows:</p> <p>POEGE has not performed an evaluation of additional substations for suitability of additional REFCL installations since the previous list of 25 distribution substations. POEGE is still evaluating the technology in the demonstration project before making decisions about additional deployments.</p> <p>Q: Given the ongoing evaluation described in response to subpart (a) above, our forecast as of 4/8/2023 is as follows:</p> <p>Year 2023 2024 2025 2026 2027 2028 Forecast Capital Expenditure for MWC 49R (\$) \$0 \$0 \$0 \$0 \$0 Forecast O&M Expenses for MWC 49R (\$) \$0 \$0 \$0 \$0 \$0 \$0</p> <p>POEGE has no spending plans for MWC 49R in 2023 and limited scope to complete evaluation of the REFCL demonstration project after the EPIC rollout.</p> <p>POEGE is in a position to evaluate additional substations for suitability of additional REFCL installations in the distribution circuit. Many of POEGE's substations serving three-phase circuits do not have physical space available for the REFCL equipment. Only a few of the substations in the distribution circuit have 3-phase distribution space. Many of the distribution banks in the same distribution affects suitability of REFCL.</p> <p>POEGE has not selected design or equipment for additional REFCL.</p> <p>POEGE is not performing evaluation of additional substations for potential REFCL deployments, so this number is not applicable.</p> <p>POEGE has not performed evaluation of additional substations for potential REFCL deployments, so this number is not applicable.</p> <p>POEGE is not performing evaluation of additional substations for potential REFCL deployments, so this number is not applicable.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
87	CaPA	Set WMP-11	CaPA_Sat WMP-11	4	CaPA_Set WMP-11_Q4	<p>Referring to Exhibit PG&E-04, February 25, 2022, version, POEGE states the following regarding REFCL: Based on our initial testing and the successful implementation in Anaheim, PG&E has developed a short-term strategy to install REFCLs in 107 sites. POEGE forecasts deploying REFCLs at an additional ten distribution substations each year, but these plans could change pending pilot results and integration with other announced automation and additive mitigation efforts described in this exhibit. As mentioned above, POEGE forecasts deploying REFCLs at an additional ten distribution substations each year, but these plans could change -- Have these plans changed? If so, your answer is part (b) of this question. Describe POEGE's current plans regarding the future deployment of REFCLs. (a) Please identify the additional substations where PG&E plans on deploying REFCLs in 1. 2023, 2. 2024, 3. 2025, 4. 2026, and 5. 2027.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
88	CaPA	Set WMP-11	CaPA_Sat WMP-11	5	CaPA_Set WMP-11_Q5	<p>Referring to Exhibit PG&E-17, p. 4.3-6, Table 4.3-3, line 6, entered on July 11, 2022.</p> <p>Line 6 of the above table indicates that POEGE forecasts the total expenditure to be \$17,331 million in 2023, \$17,800 million in 2024, \$18,288 million in 2025, and \$18,774 million in 2026.</p> <p>Given the current status of POEGE's evaluation of additional substations for suitability of POEGE's plans for future deployment of REFCLs, as of March 31, 2023, please indicate any adjustment to the forecast capital expenditures by completing the table below:</p> <p>2023 2024 2025 2026 2027 Forecast of MWC 49R as of July 11, 2022 \$17,331 million \$17,800 million \$18,288 million \$18,774 million Forecast of MWC 49R as of March 15, 2023 \$0 \$0 \$0 \$0 \$0</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
89	CaPA	Set WMP-11	CaPA_Sat WMP-11	6	CaPA_Set WMP-11_Q6	<p>In December 2021, PG&E presented at the EPIC Symposium. See Attach_D0_EPIC_Presentation.pdf. The presentation states that:</p> <p>Based on our initial testing and the successful implementation in Anaheim, PG&E has developed a short-term strategy to install REFCLs in 107 sites. POEGE forecasts deploying REFCLs at an additional ten distribution substations each year, but these plans could change pending pilot results and integration with other announced automation and additive mitigation efforts described in this exhibit. As mentioned above, POEGE forecasts deploying REFCLs at an additional ten distribution substations each year, but these plans could change -- Have these plans changed? If so, your answer is part (b) of this question. Describe POEGE's current plans regarding the future deployment of REFCLs. (a) Please identify the additional substations where PG&E plans on deploying REFCLs in 1. 2023, 2. 2024, 3. 2025, 4. 2026, and 5. 2027.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
90	CaPA	Set WMP-11	CaPA_Sat WMP-11	7	CaPA_Set WMP-11_Q7	<p>POEGE presents during the 2021 EPIC Symposium (Attach_D0_EPIC_Presentation.pdf) that REFCL could be applied to approximately 80% of PG&E's HFT distribution circuit miles (3-mile circuit). However, POEGE's 2023 WMP at page 275 states that:</p> <p>"While POEGE is looking at opportunities for REFCL deployments in our distribution substations to mitigate wildfire risk and evaluating combinations of REFCL with EPSS and other mitigations, implementing it would require significant and costly changes to the grid.</p> <p>Instead of making costly changes to the grid, we are moving forward with more cost-effective solutions such as DCD and Partial Voltage Detection.</p> <p>Why did POEGE state that REFCL could be applied to approximate 80% of PG&E's HFT distribution circuit miles (three-mile circuit)?"</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
91	CaPA	Set WMP-11	CaPA_Sat WMP-11	8	CaPA_Set WMP-11_Q8	<p>POEGE's 2023 WMP, at page 275, states that:</p> <p>"While POEGE is looking at opportunities for REFCL deployments in our distribution substations to mitigate wildfire risk and evaluating combinations of REFCL with EPSS and other mitigations, implementing it would require significant and costly changes to the grid."</p> <p>POEGE states the market data where POEGE reached the conclusion that "implementing REFCL would require significant and costly changes to the grid."</p> <p>Why did POEGE forecast "significant and costly changes" earlier than the provided pilot (a) of this subpart?</p> <p>POEGE provides all available documentation, analyses, or studies evidencing POEGE's response to subpart (a) of this question.</p> <p>If POEGE agrees with the conclusion that "implementing REFCL would require significant and costly changes to the grid," please provide all available documentation, analyses, or studies evidencing POEGE's response to parts (a) and (b) of this question.</p> <p>What "significant and costly changes to POEGE's grid" would REFCL require for its implementation?</p> <p>For each "change to POEGE's grid," what are the cost estimates?</p> <p>What are the cost estimates for each "change to the grid" of the distribution level?</p> <p>What are the cost estimates for each "change to the grid" on a per structure basis?</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
92	CaPA	Set WMP-11	CaPA_Sat WMP-11	9	CaPA_Set WMP-11_Q9	<p>At which substations, other than the Calatoga substation, has POEGE tested REFCL?</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
93	CaPA	Set WMP-11	CaPA_Sat WMP-11	10	CaPA_Set WMP-11_Q10	<p>Has POEGE done any benchmarking study on REFCL with Southern California Edison (SCE)?</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
94	CaPA	Set WMP-11	CaPA_Sat WMP-11	11	CaPA_Set WMP-11_Q11	<p>Has POEGE collaborated or exchanged with SCE on REFCL? If so, please detail the relevant activities.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
95	CaPA	Set WMP-11	CaPA_Sat WMP-11	12	CaPA_Set WMP-11_Q12	<p>POEGE's 2023 WMP, at page 275, states that it is looking at making costly changes to the grid, we are moving forward with more cost-effective solutions such as DCD and Partial Voltage Detection. Regarding Demand Control Devices (DCD), POEGE states that:</p> <p>"DCD is most compatible with three systems, implementation on-site is possible but may not achieve the benefits desired due to the higher settings. DCDs will not be required. As a result, we are not currently installing DCD on three systems."</p> <p>Does POEGE have a cost estimate for each "change to the grid" of the distribution level?</p> <p>Does POEGE have a cost estimate for each "change to the grid" on a per structure basis?</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities
96	CaPA	Set WMP-11	CaPA_Sat WMP-11	13	CaPA_Set WMP-11_Q13	<p>POEGE's 2023 WMP, at page 275, states that it is looking at making costly changes to the grid, we are moving forward with more cost-effective solutions such as DCD and Partial Voltage Detection. Regarding Partial Voltage Detection (PVD), POEGE states that:</p> <p>"PVD is viable on both 3-phase and 4-wire systems."</p> <p>Does POEGE have a cost estimate for each "change to the grid" of the distribution level?</p> <p>Does POEGE have a cost estimate for each "change to the grid" on a per structure basis?</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities
97	CaPA	Set WMP-11	CaPA_Sat WMP-11	14	CaPA_Set WMP-11_Q14	<p>Based on POEGE's evaluation of REFCLs:</p> <p>State POEGE's cost estimate for each "change to the grid" of the distribution level?</p> <p>State POEGE's cost estimate for each "change to the grid" on a per structure basis?</p> <p>Describe the likely operational impacts resulting from the implementation of REFCLs on POEGE's system.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister
98	CaPA	Set WMP-11	CaPA_Sat WMP-11	15	CaPA_Set WMP-11_Q15	<p>Please state the dates when POEGE finished evaluating the following:</p> <p>(a) The significant changes to the grid required to implement REFCL technology.</p> <p>(b) The cost estimates for each "change to the grid" of the distribution level.</p> <p>(c) The equipment installations required due to such changes, and</p> <p>(d) The cost estimates for each "change to the grid" on a per structure basis.</p>	Pub/Wu/LI	4/5/2023	4/10/2023	4/10/2023	0	NA	8.1.8.1.3.1	Grid Operations and Procedures	Repeat Earth Fault Current Lister

ID	Category	Item Name	Sub Item	Priority	Area	Item Name	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID	Item ID
107	CA&P	Set WMP-12	CaPa_Sat_WMP-12	5 SUPP	CaPa_Sat_WMP-12_DS SUPP	Regarding Tables 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, Transmission Unit Entry Numbers: 193, 195, 197, 198, 200, 201, 202, 203, 204, 205, 206, 208, 209, 210, 211, 212, 213, 215, 217, 218, 219, 221, 222, 224, 228, 229, 231, 232, 234, 235, 238. a) Please describe the PPSR protocols referenced in these Entry Numbers. b) Please explain how customers were "Mitigated by PPSR protocols." c) Please state how many customers benefited from PPSR protocols in past events. d) State whether the customers referenced in (c) benefited because they were not de-energized or because they had reduced impacts from PPSR. e) Please state how many customers benefited from PPSR protocols by being able to remain online by PPSR protocols. f) State whether the customers referenced in (c) or (e) benefited because they were not de-energized or because they had reduced impacts from PPSR. g) Please describe any alternative mitigation measures implemented or planned.	N/A	4/8/2023	4/8/2023	4/8/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	9.1.2	Public Safety Power Shutoff	Identification of Frequently De-energized Circuits	
108	CA&P	Set WMP-12	CaPa_Sat_WMP-12	6	CaPa_Sat_WMP-12_06	PG&E's WMP, Part 1.1, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	We discovered an error in our 2023 WMP submission in the "Maximum Taken, or Planned to be Taken, to Reduce the Duration of the PPSR on Circuits" of the Frequently De-energized Circuits of the PPSR protocols. We will contact Energy Safety to provide the corrected information and discuss updating our WMP submission pursuant to Energy Safety's guidance. Additionally, majority of the mitigation types listed on p. 171 are circuit specific and we have provided the device installed and line miles completed for those devices undergoing and MDO. We do not have a plan to install additional devices such as sectionalizing or MDOs in our update to the Frequently De-energized Circuits. We will add planned undergrounding as actions in the applicable circuit.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	9.1.2	Public Safety Power Shutoff	Identification of Frequently De-energized Circuits
109	CA&P	Set WMP-12	CaPa_Sat_WMP-12	7	CaPa_Sat_WMP-12_07	Regarding ACI PG&E-22-35 (Quarterly Migration Benefits of Reducing PPSR Scale, Scope, and Frequency) on WMP p. 672-673 a) Please explain why the table shows customer impacts in terms of incremental PPSR mitigation for only mitigation methods (i.e., undergrounding and MDO) while other methods (i.e., overhead hardening, sectionalizing, etc.) are not listed in the table. b) Please explain customer PPSR impacts for other mitigation methods (i) if the answer to part (b) is not, please provide the results of PPSR analysis. (ii) if the answer to part (b) is no, please explain why not.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-35 – Quarterly Migration Benefits of Reducing PPSR Scale, Scope, and Frequency
110	CA&P	Set WMP-12	CaPa_Sat_WMP-12	8	CaPa_Sat_WMP-12_08	Regarding Section 2.3 (Outline of Tactical and Strategic Decision-Making Process for Initiating a PPSR/PSPS with Decision Tree(s) subsection, "Decision to Begin the WMP," p. 203 states in part "The DIC will determine whether alternatives to de-energization are infeasible." a) Please describe how the alternatives to de-energization are considered. b) Please state the basis of PG&E's decision regarding which alternatives to consider. c) Please describe how DIC determines whether such alternatives are adequate or inadequate.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	9.2.3	Public Safety Power Shutoff	Outline of Tactical and Strategic Decision-Making Process for Initiating a PPSR/PSPS (Such as Decision Tree)
111	CA&P	Set WMP-12	CaPa_Sat_WMP-12	9	CaPa_Sat_WMP-12_09	Regarding WMP p. 783, Section 3.2 (Protocols for Mitigating the Public Safety Impacts of PPSR, Including Impacts to First Responders, Health Care Facilities, Operators of Telecommunication Infrastructure, and Weather Critical Operations/Operations, subsection "Train or Personnel Shutdown" portion: a) Does PG&E notify its train or personnel-dependent customers of such specific reasons are available, ahead of initiating PPSR event? b) If the answer to (a) is yes, how far in advance of a potential PPSR event does PG&E notify train or personnel-dependent customers. c) Please state the basis of PG&E's decision regarding which alternatives to consider. d) Please describe how DIC determines whether such alternatives are adequate or inadequate.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	1	NA	9.2.4	Public Safety Power Shutoff	Protocols for Mitigating the Public Safety Impacts of PPSR, Including Impacts on First Responders, Health Care Facilities, Operators of Telecommunications Infrastructure, and Weather Critical Operations/Airports
112	CA&P	Set WMP-12	CaPa_Sat_WMP-12	10	CaPa_Sat_WMP-12_10	Regarding PPSR and its relationship with EPSS settings: a) Please describe the relationship between PPSR and EPSS for situations in which PPSR anticipates PPSR conditions but devices to utilize EPSS settings instead. b) Please list all sites in 2021 and 2022 where PG&E activated PPSR conditions but utilized EPSS settings instead. If this occurred: c) Please provide a narrative of the decision-making process for any instances listed in part (b). d) Please describe how PG&E utilizes EPSS during a PPSR event period.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	NA	Public Safety Power Shutoff & Grid Operations and Procedures	NA
113	CA&P	Set WMP-12	CaPa_Sat_WMP-12	11	CaPa_Sat_WMP-12_11	Regarding communication to customers for EPSS: a) Does PG&E provide notification or other communication to customers when EPSS settings are enabled? If so, please include, but not be limited to, notification that customers are alerted by a circuit that is subject to EPSS settings, notification that an unplanned outage may occur, notification of expected restoration time when EPSS settings are no longer in effect, or other notification when applicable. b) If the answer to (a) is no, please describe PG&E's approach to notifying customers about EPSS settings. c) Please provide a sample of an alert message for each situation in part (b). d) If a alert point (i.e., number of minutes/hours) after the beginning of an outage triggered by EPSS settings does PG&E notify customers? e) If a alert point (i.e., number of minutes/hours) after the restoration, after an outage triggered by EPSS settings, does PG&E notify customers?	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/11/2023	4/11/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	1	NA	8.1.8.1	Grid Operations and Procedures	Protective Equipment and Device Settings
114	CA&P	Set WMP-13	CaPa_Sat_WMP-13	1	CaPa_Sat_WMP-13_01	Figure PG&E-7.1.4.2 on p. 255 of PG&E's WMP shows Down Conductor Detention (DCC) to be implemented on 4-wire distribution. a) Does PG&E plan to primarily implement DCC on 4-wire distribution, 3-wire distribution, or mix? b) Please state the number of overhead circuits of 4-wire distribution in PG&E's FPD. c) Please state the number of overhead circuits of 3-wire distribution in PG&E's FPD.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/12/2023	4/12/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	8.1.2.1.61	Grid Design and System Hardening	Downed Conductor Detection Devices
115	CA&P	Set WMP-13	CaPa_Sat_WMP-13	2	CaPa_Sat_WMP-13_02	Table 8.2.7 on p. 168 of PG&E's WMP summarizes grid operation monitoring systems, including Distribution Fault Anticipation (DFA) and Early Fault Detection (EFD). a) Describe the types of faults, equipment failures, and/or other issues that DFA is capable of detecting. b) Describe the types of faults, equipment failures, and/or other issues that EFD is capable of detecting. c) Describe the types of faults, equipment failures, and/or other issues that DFA is capable of detecting but EFD is not capable of detecting. d) Describe the types of faults, equipment failures, and/or other issues that EFD is capable of detecting but DFA is not capable of detecting. e) Describe the types of faults, equipment failures, and/or other issues that EFD is capable of detecting but DFA is not capable of detecting. f) Describe the types of faults, equipment failures, and/or other issues that EFD is capable of detecting but DFA is not capable of detecting. g) Please summarize the results PG&E has seen from DFA installations to date. h) Please summarize the results PG&E has seen from EFD installations to date.	a) PG&E's WMP-12, Section 3.1.2 states that the intent of the PPSR protocols is to reduce the duration of PPSR on these circuits. Regarding Table 3-2 (Units of Frequently De-energized Circuits) in Appendix F of PG&E's WMP, the entry numbers in Table 3-2 are regarding MDO device installations or replacement plans" which is listed for 238 circuits. a) Please explain why these types of mitigation measures listed on p. 171 are listed in Table 3-2 as planned actions for any circuits. b) Please explain whether PG&E plans to take any mitigation measures for any of the remaining 238 circuits in Table 3-2.	N/A	4/8/2023	4/12/2023	4/12/2023	https://www.pge.com/lpa_global/customer-support mailto:customersupport@pge.com https://www.pge.com/lpa_global/customer-support	0	NA	8.3.1	Stratified Awareness and Forecasting	Existing Systems, Technologies, and Procedures

128	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C3	5	CaPa_Sat WMP-14_C3	<p>Temporary Distribution Microgrid available to operate in 2020 Number of 2020 PPSPs events supported Approx. qty of service pits energized per 2020 PPSPs event Disruption 470 Outage 3,156 Personnel Temporary configuration without a pre-installed interconnection hub 1) Clearlake North (temporary configuration without a pre-installed interconnection hub) 2) Clearlake South (temporary configuration without a pre-installed interconnection hub) 3) 2021</p> <p>Temporary Distribution Microgrid available to operate in 2021 Number of 2021 PPSPs events supported Approx. qty of service pits energized per 2021 PPSPs event Disruption 470 Outage 3,156 Personnel Temporary configuration without a pre-installed interconnection hub 1) Clearlake North (temporary configuration without a pre-installed interconnection hub) 2) Clearlake South (temporary configuration without a pre-installed interconnection hub) 3) 2021</p> <p>Temporary Distribution Microgrid available to operate in 2022 Number of 2022 PPSPs events supported Approx. qty of service pits energized per 2022 PPSPs event Disruption 0 n/a Outage 0 n/a Personnel 0 n/a</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C3.pdf	0	NA	8.1.2.2	Grid Design and System Hardening	Temporary Distribution Microgrid
129	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C6	6	CaPa_Sat WMP-14_C6	<p>P. 365 of PG&E's WMP status, "The Redwood Coast Airport Microgrid (RCAM) was built through a California Energy Commission (CEC) grant to the Coastal Energy Center and was loaned from United States of America to the Redwood Coast Energy Authority (a Community Choice Aggregator), in collaboration with PG&E EPC 3.1.1, Public Safety Electric." (P. 365)</p> <p>1) What was the total cost of the RCAM project? 2) Please provide disaggregated costs associated with the RCAM fulfilled in whole or in part by the California Energy Commission EPC grant, loaned from the United States of America, and any other distinct funding sources.</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C6.pdf	0	NA	8.1.2.3	Grid Design and System Hardening	Community Microgrid Enablement Program and Microgrid Incentive Program
130	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C7	7	CaPa_Sat WMP-14_C7	<p>P. 385 of PG&E's WMP status, "The successful deployment of microgrids provides a model for other communities to replicate successful microgrid projects for the success of the RCAM"</p> <p>1) How does PG&E determine what locations would be most appropriate for a temporary distribution microgrid? 2) Please provide details to support the success of the RCAM</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C7.pdf	4	NA	8.1.2.3	Grid Design and System Hardening	Community Microgrid Enablement Program and Microgrid Incentive Program
131	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C8	8	CaPa_Sat WMP-14_C8	<p>P. 369 of PG&E's WMP status, "For 2023, we have planned to provide details that will provide significant reliability benefits on our low loss lines that are in the scope of EPSS."</p> <p>1) Please quantify the "significant reliability benefits" that will be provided from devices installed in 2023. 2) Please provide any available workpapers or studies to support your response to part (a).</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C8.pdf	0	NA	8.1.2.1	Grid Design and System Hardening	Installation of System Automation Equipment – Distribution Protective Devices
132	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C9	9	CaPa_Sat WMP-14_C9	<p>P. 390 of PG&E's WMP status, "The Substation Asset Reliability Effectiveness Study" in 2023</p> <p>1) When does PG&E expect to begin the Substation Asset Reliability Effectiveness Study? 2) When does PG&E expect to complete the Substation Asset Reliability Effectiveness Study?</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C9.pdf	0	NA	8.1.2.12	Grid Design and System Hardening	Other Technologies and Systems – Substation Asset Assessment
133	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C10	10	CaPa_Sat WMP-14_C10	<p>P. 393 of PG&E's WMP status, "In 2022 PG&E implemented measures to make TD-2353, which incorporated safety best practices as well as updated the pole rejection criteria. Please list the adjustments that PG&E made to the pole rejection criteria."</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C10.pdf	0	NA	8.1.3.5	Asset Inspections	Virtual Pole Inspection
134	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C11	11	CaPa_Sat WMP-14_C11	<p>P. 400 of PG&E's WMP status, "PG&E designated pilot areas as extreme, severe, high, medium, or low based on the expected reliability consequences of the structures within that pilot area."</p> <p>1) What is the mitigation described above based on the wildfire consequence scores from the WDRM v2 of the WDRM v3? 2) How does PG&E plan to evaluate the pilot area reliability risk and what steps will be taken to improve the pilot area? 3) When PG&E re-evaluates the pilot area designations, what steps will be taken to improve a pilot map that has increased in severity, such as from high to severe or severe to extreme?</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C11.pdf	0	NA	8.1.3.21	Asset Inspections	Delayed Ground Inspection
135	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C12	12	CaPa_Sat WMP-14_C12	<p>Table PG&E 1.7 on p. 458 of PG&E's WMP shows that PG&E added 14,902 distribution work orders to the WPTDFR backlog in 2022</p> <p>1) What measures has PG&E implemented to ensure that it will be able to reduce its backlog in 2023 by closing more backlog than it opens? 2) What factors may prevent PG&E from meeting its targets regarding backlog reduction in 2023? 3) For each factor in part (b), what measures has PG&E taken to mitigate the risk that the factor will prevent PG&E from reducing its backlog in 2023?</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C12.pdf	0	NA	8.1.7.2	Open Work Orders	Open Work Orders – Distribution Tags
136	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C13	13	CaPa_Sat WMP-14_C13	<p>P. 403 of PG&E's WMP status, "EPSS does not cause a power outage." Given that EPSS settings can de-energize a line without prior warning, and without an apparent cause, please explain what is meant by the above quote.</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C13.pdf	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
137	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C14	14	CaPa_Sat WMP-14_C14	<p>Per PG&E's January 2023 EPSS monthly report, PG&E experienced 2,315 EPSS outages in 2022. COF the EPSS-logged outages in 2022, in how many cases did PG&E take no corrective action was required prior to re-energizing? In, there was no pre-set condition that PG&E needed to resolve upon inspecting the location of the outage? a) Where there any EPSS-logged outages in 2022 that PG&E determined were triggered by events that did not cause an outage? b) Where is the map for this line, how many outages did PG&E determine were triggered by events that did not cause an outage?</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C14.pdf	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
138	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C15	15	CaPa_Sat WMP-14_C15	<p>P. 405 of PG&E's WMP status, "In 2022, we expanded the scope of EPSS to all HFRAs in our service territory and added additional EPSS fault areas."</p> <p>1) In 2022, did PG&E expand the scope of EPSS to all HFRAs and all HPTD? 2) In 2022, did PG&E expand the scope of EPSS to HPTD in 2022, please state the basis for the decision. 3) In 2022, will the scope of EPSS cover all HFRAs and HPTD? 4) If the answer to part (a) is no, please state the basis for the decision.</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C15.pdf	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
139	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C16	16	CaPa_Sat WMP-14_C16	<p>Can Aircelco understand that a small segment that has been underground may still experience PPSPs outages if a segment upstream or downstream of the undergrounded circuit segment are subject to PPSPs. In the above understanding correct? If not, please correct the above.</p> <p>1) During the 2023-2025 WMP period, does PG&E intend to utilize temporary microgrids or other mitigations to improve the reliability of a PPSPs event de-energizing undergrounded lines? 2) If the answer to part (b) is no, please explain why not. 3) If the answer to part (b) is yes, please describe the PPSPs mitigation.</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C16.pdf	0	NA	8.1.5	Public Safety Power Shutoff	Performance Metrics Identified by the Electrical Corporation
140	CA/PA	Set WMP-14	CaPa_Sat WMP-14_C17	17	CaPa_Sat WMP-14_C17	<p>Has PG&E performed a study or back call to predict the likelihood that an undergrounded segment will be de-energized by a PPSPs event due to upstream or downstream outages that do not cause outages affecting the undergrounded segment? 1) If the answer to part (a) is yes, please explain the results of any such studies. 2) If the answer to part (a) is no, please explain why not.</p>	Holly Wellman	4110203	4170203	4170203	https://www.sccwrmp.gov/Information/CommunityEngagement/CommunityEngagementDocuments/2021/2021-01-20-CommunityEngagement-2021-01-20-CA-PA-Set-WMP-14-C17.pdf	0	NA	8.1.5	Public Safety Power Shutoff	Performance Metrics Identified by the Electrical Corporation

170	TURN	004	TURN_004	1	TURN_004_01	1	Tom Long	4/12/2023	4/17/2023	4/17/2023	1	Yes	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
171	TURN	004	TURN_004	2	TURN_004_02	1	Tom Long	4/12/2023	4/17/2023	4/17/2023	1	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-351 Quarterly Mitigation Benefits of Restoring PPSPs Scale, Scope, and Frequency
172	TURN	004	TURN_004	3	TURN_004_03	1	Tom Long	4/12/2023	4/17/2023	4/17/2023	0	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-351 Quarterly Mitigation Benefits of Restoring PPSPs Scale, 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	1	Kevin Misa	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	1	Kevin Misa	4/12/2023	4/19/2023	4/19/2023	0	NA	8.1.2.1	Grid Design and System Hardening	Covered Conductor Installation - Distribution
175	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_03	3	CPUC - SPD (Safety Policy Division)_003_03	1	Kevin Misa	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 - Distribution
176	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_04	4	CPUC - SPD (Safety Policy Division)_003_04	1	Kevin Misa	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 - Distribution
177	CPUC - SPD (Safety Policy Division)	003	CPUC - SPD (Safety Policy Division)_003_05	5	CPUC - SPD (Safety Policy Division)_003_05	1	Kevin Misa	4/12/2023	4/19/2023	4/19/2023	0	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-16 - Progress and Update on Undergrounding and Risk Prioritization
178	OEIS	002	OEIS_002	1	OEIS_002_01	1	Colin Long	4/13/2023	4/18/2023	4/18/2023	0	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-24 - Progress of Vegetation Management Activity

188	TURN	005	TURN_005	1	TURN_005_01	<p>1. Please provide any decision the schematic in PG&E's possession that shows, for a given location where PG&E believes that system hardening is necessary, how PG&E decides which mitigation technique to use – i.e., undergrounding, covered conductor, remote grid installation, etc. – including which technique PG&E uses to select the mitigation technique for that location. Please provide a narrative explanation of what the decision tree schematic shows.</p>	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_01.html	3	NA	8.1.2	Grid Design and System Hardening	ALL
189	TURN	005	TURN_005	2	TURN_005_02	2) If the response to question 1, that PG&E has on such decision tree schematic, then please describe the process that PG&E uses to decide, for a given location, which mitigation technique to use – i.e., undergrounding, covered conductor, remote grid installation, etc. – including without limitation the criteria that PG&E uses to decide the mitigation technique for that location.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_02.html	0	NA	8.1.2	Grid Design and System Hardening	ALL
190	TURN	005	TURN_005	3	TURN_005_03	3) In choosing among alternative system hardening mitigation techniques – i.e., undergrounding, covered conductor remote grid installation, etc. – for a given location, please explain how PG&E takes into account the execution and lifecycle risks associated with undergrounding compared to other alternatives. PG&E discloses those risks to the 2023-2025 WMP pages 344-346. They were also discussed in PG&E's Revised 2021 WMP (revision dated 10/2021 at page 600-601) (Section 7.3.3.1.1, Subsection 300). Where PG&E uses the terms "unsuitable site" and "infeasible risk"?	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_03.html	0	NA	8.1.2	Grid Design and System Hardening	ALL
191	TURN	005	TURN_005	4	TURN_005_04	4) For the undergrounding work described in PG&E's 2023-2025 WMP, please describe PG&E's policy concerning undergrounding of service connections and the removal of poles on which service connections are attached. To the extent that the determination varies by project, please describe the criteria that PG&E uses to decide whether PG&E undergrounds service connections in a given location.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_04.html	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
192	TURN	005	TURN_005	5	TURN_005_05	5) For the undergrounding work described in PG&E's 2023-2025 WMP, please describe PG&E's policy concerning undergrounding of secondary distribution lines that are supported by primary lines. To the extent that the determination varies by project, please describe the criteria that PG&E uses to decide whether PG&E undergrounds secondary lines in a given location.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_05.html	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
193	TURN	005	TURN_005	6	TURN_005_06	6) PG&E does not currently track the existing poles that will be removed by undergrounded circuits. The analysis would require removal review of the individual project level and would include: - Determining the poles that will be removed. - Determining the poles that will be topped. - Determining the poles that are jointly owned and will remain after undergrounding. In the absence of any pole data on this front, PG&E does not have an estimate available for the "percentage of existing poles in the affected area that will be removed" as requested in the issue. One of PG&E's internal project team members has provided the number of poles to be removed by undergrounding on one project to the extent that the project includes the presence of joint pole sites (aka, between lines that would need to remain on the same tower) for the entire length of the project. PG&E does not have any other data on this front. PG&E's internal members who the WMP includes risks that exceed our annual targets to account for unforeseen utility related risks such as access, weather, permitting, land rights acquisition, relations or other constraints that may be encountered during the project lifecycle.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_06.html	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
194	TURN	005	TURN_005	7	TURN_005_07	7) With respect to the values for 2023-2025 in the column for Estimated System Hardening Undergrounding Miles in Table PG&E-8.1.2.2 on page 347 of PG&E's 2023-2025 WMP – a) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. b) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. c) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. d) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. e) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. f) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. g) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. h) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. i) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. j) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. k) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. l) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. m) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. n) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. o) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. p) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. q) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. r) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. s) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. t) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. u) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. v) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. w) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. x) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. y) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. z) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_07.html	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
195	TURN	005	TURN_005	8	TURN_005_08	8) With respect to the values for 2023-2025 in the column for Estimated Bulk County Reliability Miles in Table PG&E-8.1.2.2 on page 347 of PG&E's 2023-2025 WMP – a) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. b) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. c) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. d) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. e) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. f) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. g) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. h) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. i) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. j) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. k) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. l) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. m) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. n) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. o) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. p) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. q) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. r) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. s) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. t) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. u) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. v) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. w) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. x) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. y) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined. z) How does PG&E estimate the overhead circuit miles that will be replaced and explain how this estimate was determined.	Tom Long	4/13/2023	4/19/2023	4/19/2023	https://www.sca.com/eng/ehp/comm/turn/turn_005_08.html	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
196	CaPA	Set WMP-16	CaPA_Set WMP-16	1	CaPA_Set WMP-16_01	Regarding PG&E's SCADA Underground (GU) Initiative: a) Please explain PG&E's operating procedure for operating SCADA I/O switches to energize and de-energize a circuit or circuit segment. b) Please explain PG&E's normal procedure or other documentation related to your response to part (a). c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a normally closed switch, the switch is returned to its normally open position during switching. d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a normally open switch, the switch is returned to its normally open position during switching.	Holly Whiteman	4/18/2023	4/21/2023	4/21/2023	https://www.sca.com/eng/ehp/comm/caapa/caapa_set_wmp_16_01.html	2	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment
197	CaPA	Set WMP-16	CaPA_Set WMP-16	2	CaPA_Set WMP-16_02	Regarding PG&E's Load Break Allowance: a) Please explain PG&E's operating procedure for operating a load break allow on a switch to energize or de-energize a circuit or circuit segment. b) Please explain PG&E's normal procedure or other documentation related to your response to part (a). c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a load break allow that is normally in a closed position, the circuit segment is returned to its normally open position during switching. d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a load break allow that is normally in an open position, the circuit segment is returned to its normally open position during switching.	Holly Whiteman	4/18/2023	4/21/2023	4/21/2023	https://www.sca.com/eng/ehp/comm/caapa/caapa_set_wmp_16_02.html	0	NA	8.1.2.1.3	Grid Design and System Hardening	Minor Switch Operator Switch Replacement
198	CaPA	Set WMP-16	CaPA_Set WMP-16	3	CaPA_Set WMP-16_03	Regarding PG&E's Junction Boxes: a) Please explain in detail PG&E's operating procedure for operating a junction box in a switch to energize or de-energize a circuit or circuit segment. b) Please explain PG&E's normal procedure or other documentation related to your response to part (a). c) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a junction box that is normally in an open position, the circuit segment is returned to its normally open position during switching. d) Please explain in detail PG&E's operating procedure, from start to finish, for the following operation: after closing a circuit segment via a junction box that is normally in a closed position, the circuit segment is returned to its normally open position during switching.	Holly Whiteman	4/18/2023	4/21/2023	4/21/2023	https://www.sca.com/eng/ehp/comm/caapa/caapa_set_wmp_16_03.html	0	NA	8.1.2.1.0	Grid Design and System Hardening	Other Grid Topology Improvements to Minimize Risk of Spikes

199	CAIPA	Set WMP-16	CaIPA_Set WMP-16_4	4	CaIPA_Set WMP-16_04	<p>Please explain PG&E's selection criteria for where to install the following equipment on underground circuits:</p> <p>a) SCADA UC switches b) Load break elbows</p>	<p>a) SCADA underground switches are typically only installed at mainline intersections. The 3-way SCADA switch can be used for the purpose of installing SCADA UCs in the event of a fault. SCADA UCs are not installed at mainline intersections where communications signal is available. SCADA UCs are not always available at the location where we would otherwise like to install a SCADA UC switch. While SCADA UCs are not installed at mainline intersections, SCADA UCs are installed at mainline intersections where communications are available. It is at the discretion of the Electric Distribution Planning Engineer to specify the appropriate device as part of the project design.</p> <p>b) PG&E installs junction boxes on both mainline (500 Amp, AKA 605A) and tap-line(DOA) systems.</p> <p>A suitable junction for the connection of multiple DOA available connection feed together in a sub-surface enclosure and mounted on a wall of the enclosure. This connection could also include a DOA above mounted on top to head a nearby installation. PG&E typically designs the underground systems such that there is a working device at every other enclosure, allowing the use of a single junction in between. (Technically speaking, this design approach is due to the 4-foot-8-inch device requiring a clearance to open.)</p> <p>A. A suitable junction for the connection of multiple DOA available connection feed together in a sub-surface enclosure. These can be 3-way or 4-way connections. These junctions are typically designed to be back-to-back on DOA feeder systems and are not preferred for 200A feeds. As they can be used to connect a single transformer on a loop system if it is more cost efficient than looping in and out of a transformer. In some cases, the DOA junction can also be post-mounted (installed inside a post-mounted enclosure).</p> <p>c) The use of 200A Load-Break (LB) elbows is required when terminating 200A cables (ending the cable run, generally into a piece of equipment like a transformer) on all sub-surface installations installed after July 2016. The use of 200A LB elbows has been required for terminating 200A cables on most new post-mounted installations since the early 1990s. (Please note that when performing work on existing underground installations that involves the replacement of existing 200A Load Break (LB) elbows, it may not be feasible to convert 200A LBs to LB elbows. The overall height of the 200A LB above a 0.5' taller than the existing LB above and the enclosure covers must be able to be secured closed when cables are placed on an installed or proposed device) in the enclosure. In the cases where a LB above cannot fit safely in the existing enclosure, LB elbows are approved for use.</p>	Holly Wichman	4182023	4212023	4212023	0	NA	8.1.2	Grid Design and System Hardening	Other Grid Topology Improvements to Minimize Risk of Ignition																												
200	CAIPA	Set WMP-16	CaIPA_Set WMP-16_05	5	CaIPA_Set WMP-16_05	<p>Please explain PG&E's selection criteria for where to install the following equipment on underground circuits:</p> <p>a) Post-mounted transformers b) Sub-surface transformers</p>	<p>a) PG&E is standard to install post-mounted transformers on underground circuits when transformers are needed. See the response to subject 5 for a post-mount may not be used in favor of a sub-surface transformer if residential customers, we prefer to install post-mounted transformers in the street, however, customer or right-of-way areas for multiple customers or on the customer's property for a single service. For non-residential customers, the preference is to install post-mounted transformers outside adjacent to the building on a concrete pad.</p> <p>b) Sub-surface transformers are typically not installed unless it is required to support equipment acquisition, there is no space available for a post-mounted transformer to be installed, or it is otherwise specified due to project-specific concerns. Reasons that sub-surface transformers are not preferred include that a sub-surface transformer located in an enclosure where the air circulation is restricted and the ambient temperature is high, such as in the Central Valley or some of the FTD areas that see high summer temperatures, may exceed its capabilities at complete loading due to excessive temperatures. Spikes in ambient temperature are also likely to occur in the summer months. The use of the transformer may limit the option of installing a sub-surface transformer. When one is required, the preferred location for a sub-surface transformer (from most preferred to least preferred) is generally:</p> <ol style="list-style-type: none"> On the customer's property beside a sidewalk. In a paved area between the curb and the sidewalk. In the sidewalk. In the paved portion of a parking lot. In the parking /traveler area of a street. In the trafficked portion of the street. 	Holly Wichman	4182023	4212023	4212023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment																												
201	CAIPA	Set WMP-16	CaIPA_Set WMP-16_06	6	CaIPA_Set WMP-16_06	<p>For each of the undergrounding projects that PG&E has planned for 2023, please answer the following questions on each project:</p> <p>a) How many SCADA underground switches will be installed? b) How many overhead switches will be removed? c) How many tie switches to adjacent circuits currently exist? d) How many OH tie switches to adjacent circuits will be removed? e) How many tie switches (OH or UC) will exist when the project is complete? f) How many SCADA overhead switches will be removed? g) How many SCADA underground switches will be installed as tie points to adjacent circuits? h) How many sub-surface transformers will be installed? i) How many post-mounted transformers will be installed? j) How many junction boxes will be installed? k) How many junction boxes will be installed for sectioning? l) How many junction boxes will be installed as tie points to adjacent circuits? m) How many load break elbows will be installed? n) How many load break elbows will be installed for sectioning? o) How many load break elbows will be installed as tie points to adjacent circuits? p) How many load break elbows will be installed for sectioning? q) How many tie switches will be installed? r) How many tie switches will be installed?</p>	<p>PG&E objects to this request as overhead and underground. We do not maintain the requested information in a manner that allows it to be aggregated without a manual review of each project's engineering and construction documentation. Manually collecting the data across hundreds of projects would require significant time and resources and the development of multiple processes to ensure data accuracy. If you would like to discuss this request further, please feel free to reach out to us.</p> <p>Reason:</p> <p>In response to a request to provide the results of a manual review of a set of projects, PG&E completed this review on a subset of four projects at Oak Road 1152 (LRI 206) Phase 1, 1-4. PG&E is providing the total questions for four projects that are constructed in the same circuit. The following tables are the associated projects that can be found on our undergrounding webpage: 3520010, 3520010, 3520010, 3520010. Below we also provide the assumptions used to collect the information.</p> <p>PG&E assumes "SCADA underground switches installed" includes both pad-mounted and sub-surface SCADA devices. Because these devices often have multiple positions enabled (e.g. three-way switch), PG&E also collected the following information:</p> <ul style="list-style-type: none"> SCADA underground switches installed - 1 SCADA pad-mounted switches removed - 1 SCADA sub-surface switches removed - 1 <p>PG&E assumes "Overhead switches removed" includes both mainline and tap-line switches, protection devices that can be operated as switches, bypass switches and the disconnects as installed as part of in-service packages.</p> <ul style="list-style-type: none"> "Overhead Switches Removed" - 14 PG&E assumes "tie switches to adjacent circuits" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits" - 0 PG&E assumes "tie switches to adjacent circuits removed" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits Removed" - 0 "Tie Switches to Adjacent Circuits Installed" - 0 PG&E assumes "SCADA OH switches removed" includes both mainline, tap-line switches, and protection devices with SCADA that can be operated as switches. SCADA Overhead Switches Removed - 1 	Holly Wichman	4182023	4212023	4212023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment																												
201	CAIPA	Set WMP-16	CaIPA_Set WMP-16_06 SUPP	6 SUPP	CaIPA_Set WMP-16_06 SUPP	<p>For each of the undergrounding projects that PG&E has planned for 2023, please answer the following questions on each project:</p> <p>a) How many SCADA underground switches will be installed? b) How many overhead switches will be removed? c) How many tie switches to adjacent circuits currently exist? d) How many OH tie switches to adjacent circuits will be removed? e) How many tie switches (OH or UC) will exist when the project is complete? f) How many SCADA overhead switches will be removed? g) How many SCADA underground switches will be installed as tie points to adjacent circuits? h) How many sub-surface transformers will be installed? i) How many post-mounted transformers will be installed? j) How many junction boxes will be installed? k) How many junction boxes will be installed for sectioning? l) How many junction boxes will be installed as tie points to adjacent circuits? m) How many load break elbows will be installed? n) How many load break elbows will be installed for sectioning? o) How many load break elbows will be installed as tie points to adjacent circuits? p) How many load break elbows will be installed for sectioning? q) How many tie switches will be installed? r) How many tie switches will be installed?</p>	<p>PG&E objects to this request as overhead and underground. We do not maintain the requested information in a manner that allows it to be aggregated without a manual review of each project's engineering and construction documentation. Manually collecting the data across hundreds of projects would require significant time and resources and the development of multiple processes to ensure data accuracy. If you would like to discuss this request further, please feel free to reach out to us.</p> <p>Reason:</p> <p>In response to a request to provide the results of a manual review of a set of projects, PG&E completed this review on a subset of four projects at Oak Road 1152 (LRI 206) Phase 1, 1-4. PG&E is providing the total questions for four projects that are constructed in the same circuit. The following tables are the associated projects that can be found on our undergrounding webpage: 3520010, 3520010, 3520010, 3520010. Below we also provide the assumptions used to collect the information.</p> <p>PG&E assumes "SCADA underground switches installed" includes both pad-mounted and sub-surface SCADA devices. Because these devices often have multiple positions enabled (e.g. three-way switch), PG&E also collected the following information:</p> <ul style="list-style-type: none"> SCADA underground switches installed - 1 SCADA pad-mounted switches removed - 1 SCADA sub-surface switches removed - 1 <p>PG&E assumes "Overhead switches removed" includes both mainline and tap-line switches, protection devices that can be operated as switches, bypass switches and the disconnects as installed as part of in-service packages.</p> <ul style="list-style-type: none"> "Overhead Switches Removed" - 14 PG&E assumes "tie switches to adjacent circuits" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits" - 0 PG&E assumes "tie switches to adjacent circuits removed" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits Installed" - 0 PG&E assumes "SCADA OH switches removed" includes both mainline, tap-line switches, and protection devices with SCADA that can be operated as switches. SCADA Overhead Switches Removed - 1 	Holly Wichman	4182023	502023	512023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment																												
202	CAIPA	Set WMP-16	CaIPA_Set WMP-16_07	7	CaIPA_Set WMP-16_07	<p>For each of the undergrounding projects that PG&E has planned for 2024, please answer the following questions on each project:</p> <p>a) How many SCADA underground switches will be installed in each circuit? b) How many overhead switches will be removed? c) How many tie switches to adjacent circuits currently exist? d) How many OH tie switches to adjacent circuits will be removed? e) How many tie switches (OH or UC) will exist when the project is complete? f) How many SCADA overhead switches will be removed? g) How many SCADA underground switches will be installed as tie points to adjacent circuits? h) How many sub-surface transformers will be installed? i) How many post-mounted transformers will be installed? j) How many junction boxes will be installed? k) How many junction boxes will be installed for sectioning? l) How many junction boxes will be installed as tie points to adjacent circuits? m) How many load break elbows will be installed? n) How many load break elbows will be installed for sectioning? o) How many load break elbows will be installed as tie points to adjacent circuits? p) How many load break elbows will be installed for sectioning? q) How many tie switches will be installed? r) How many tie switches will be installed?</p>	<p>PG&E objects to this request as overhead and underground. We do not maintain the requested information in a manner that allows it to be aggregated without a manual review of each project's engineering and construction documentation. Manually collecting the data across hundreds of projects would require significant time and resources and the development of multiple processes to ensure data accuracy. If you would like to discuss this request further, please feel free to reach out to us.</p> <p>Reason:</p> <p>In response to a request to provide the results of a manual review of a set of projects, PG&E completed this review on a subset of four projects at Oak Road 1152 (LRI 206) Phase 1, 1-4. PG&E is providing the total questions for four projects that are constructed in the same circuit. The following tables are the associated projects that can be found on our undergrounding webpage: 3520010, 3520010, 3520010, 3520010. Below we also provide the assumptions used to collect the information.</p> <p>PG&E assumes "SCADA underground switches installed" includes both pad-mounted and sub-surface SCADA devices. Because these devices often have multiple positions enabled (e.g. three-way switch), PG&E also collected the following information:</p> <ul style="list-style-type: none"> SCADA underground switches installed - 1 SCADA pad-mounted switches removed - 1 SCADA sub-surface switches removed - 1 <p>PG&E assumes "Overhead switches removed" includes both mainline and tap-line switches, protection devices that can be operated as switches, bypass switches and the disconnects as installed as part of in-service packages.</p> <ul style="list-style-type: none"> "Overhead Switches Removed" - 14 PG&E assumes "tie switches to adjacent circuits" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits" - 0 PG&E assumes "tie switches to adjacent circuits removed" are only included if part of the project reviewed and excludes ties to itself. "Tie Switches to Adjacent Circuits Installed" - 0 PG&E assumes "SCADA OH switches removed" includes both mainline, tap-line switches, and protection devices with SCADA that can be operated as switches. SCADA Overhead Switches Removed - 1 	Holly Wichman	4182023	4212023	4212023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment																												
203	CAIPA	Set WMP-16	CaIPA_Set WMP-16_08	8	CaIPA_Set WMP-16_08	<p>a) Replaced in 2020 b) Replaced in 2021 c) Replaced in 2022</p>	<p>a) The average, median, minimum and maximum age of poles (in years) replaced in 2020, 2021, and 2022 are as follows:</p> <table border="1"> <tr><td>2020</td><td>46</td></tr> <tr><td>2021</td><td>46</td></tr> <tr><td>2022</td><td>46</td></tr> <tr><td>Average</td><td>46</td></tr> <tr><td>Median</td><td>46</td></tr> <tr><td>Minimum</td><td>46</td></tr> <tr><td>Maximum</td><td>46</td></tr> </table> <p>b) 1.2.3 Distribution Pole Replacements and Reinforcements</p> <p>Page 552 of PG&E's WMP states, "Pole replacement and reinforcement reduce outage likelihood which increases the chance of the area being impacted in future PSEPs events. These programs also support public and employee safety because they improve the overall health of the distribution poles."</p> <p>Please provide the average, median, minimum and maximum age of poles that PG&E:</p> <p>a) Replaced in 2020 b) Replaced in 2021 c) Replaced in 2022</p> <p>d) Replaced in 2020 e) Replaced in 2021 f) Replaced in 2022</p> <p>g) PG&E form of pole repair discussed in Section 8.1.2.3 of the WMP is to reinforce the pole with a steel truss. As such, the age of poles provided below is specific to poles reinforced:</p> <table border="1"> <tr><td>2020</td><td>47</td></tr> <tr><td>2021</td><td>47</td></tr> <tr><td>2022</td><td>47</td></tr> <tr><td>Average</td><td>47</td></tr> <tr><td>Median</td><td>47</td></tr> <tr><td>Minimum</td><td>47</td></tr> <tr><td>Maximum</td><td>47</td></tr> </table>	2020	46	2021	46	2022	46	Average	46	Median	46	Minimum	46	Maximum	46	2020	47	2021	47	2022	47	Average	47	Median	47	Minimum	47	Maximum	47	Holly Wichman	4182023	552023	552023	0	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements
2020	46																																											
2021	46																																											
2022	46																																											
Average	46																																											
Median	46																																											
Minimum	46																																											
Maximum	46																																											
2020	47																																											
2021	47																																											
2022	47																																											
Average	47																																											
Median	47																																											
Minimum	47																																											
Maximum	47																																											

224	OEIS	003	OEIS_003	10	OEIS_003_010	<p>Regarding PGE's Asset Inventory</p> <p>a) Provide a list of all fields that PGE'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 PGE's asset inventory</p> <p>c) Provide a percentage of assets PGE is missing data for each field listed in part (a) within its asset inventory</p> <p>d) Provide an estimated percentage for the amount of assets missing from PGE's asset inventory.</p>	Colin Long	4/10/2023	5/10/2023	5/10/2023	<p>https://www.pge.com/~/media/2023/04/10/2023-04-10-Asset-Inventory-Response-to-Question-010.pdf</p> <p>https://www.pge.com/~/media/2023/04/10/2023-04-10-Asset-Inventory-Response-to-Question-010-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/10/2023-04-10-Asset-Inventory-Response-to-Question-010-Appendix-2.pdf</p>	2	NA	8.1.5	Asset Management and Inspection (Enterprise Systems)	NA
225	OEIS	003	OEIS_003	11	OEIS_003_011	<p>Regarding PGE's Response to P-WMP_2023-PGE-002-007</p> <p>a) PGE states that a Critical Attribute is defined as "a condition that could lead to either an ignition point or one that could result in a potential fire ignition." Provide all supporting documentation for procedures PGE has in place to determine whether something is a Critical Attribute. If such procedures do not exist PGE must provide the following:</p> <p>i. A description of PGE's process for how determinations about whether a Critical Attribute exists are made</p> <p>ii. A list of criteria PGE uses to qualify an asset as a Critical Attribute</p> <p>iii. What does PGE mean by "as defined by Asset Strategy"</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-011.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-011-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-011-Appendix-2.pdf</p>	0	NA	Appendix D	Area for Continued Improvement	ACI PGE-22-21 - Asset Inspections Quality Assurance and Quality Control ACI PGE-22-08 - Better Application of Specific Lessons Learned from UHFV-Caused Fires
226	OEIS	003	OEIS_003	12	OEIS_003_012	<p>Regarding PGE's Response to P-WMP_2023-PGE-002-009</p> <p>a) PGE states that it is still performing targeted equipment repairs relating to EPSS. Is this a program separate from that described within Section 8.1.7 of the WMP? If so, provide the following:</p> <p>i. Description and procedures in which PGE uses to decide when and where full perform targeted equipment repairs</p> <p>ii. How PGE allocates resources to address these EPSS-related targeted equipment repairs (particularly in relation to the program described in Section 8.1.7)</p> <p>iii. How PGE's maintenance practices address EPSS-related targeted equipment repairs (as a number of work orders, number of CPZs included in the program)</p> <p>iv. The additional mitigation measures previously included in the attachment are not included if PGE is still using the measure?</p> <p>v. Provide a GIS file with locations of CPZs scoped for additional reliability mitigations based on EPSS impacts</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-012.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-012-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-012-Appendix-2.pdf</p>	1	NA	Appendix D	Area for Continued Improvement	ACI PGE-22-08 - Better Application of Specific Lessons Learned from UHFV-Caused Fires
227	OEIS	003	OEIS_003	13	OEIS_003_013	<p>Regarding PGE's Response to P-WMP_2023-PGE-002-008</p> <p>a) Provide all Enhanced Ignition Analysis (EIA) reports completed for instances in which the qualifier was an EPSS protected facility. b) Provide all Enhanced Ignition Analysis (EIA) reports completed for instances in which the qualifier was an EPSS protected facility. c) Provide a GIS file with locations of CPZs scoped for additional reliability mitigations based on EPSS impacts</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-013.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-013-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-013-Appendix-2.pdf</p>	1	NA	Appendix D	Area for Continued Improvement	ACI PGE-22-08 - Better Application of Specific Lessons Learned from UHFV-Caused Fires
228	OEIS	003	OEIS_003	14	OEIS_003_014	<p>Regarding PGE's Fault Repair Replacements</p> <p>a) Provide the number of fault repairs PGE has repaired by year since 2020.</p> <p>b) Provide PGE's targets for fault repair replacements in 2023 and 2024, as applicable.</p> <p>c) Provide the number of fault repair devices within PGE's HFDT.</p> <p>d) Provide the number of fault repair devices identified as needing replacement within PGE's HFDT.</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-014.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-014-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-014-Appendix-2.pdf</p>	0	NA	NA	NA	NA
229	OEIS	003	OEIS_003	15	OEIS_003_015	<p>Regarding PGE's W of W wildfire distribution Risk Model (WRM)</p> <p>a) What is PGE's data for wildfire distribution Risk Model?</p> <p>b) When does PGE intend to use V4 output to enhance its undergrounding plan? Include discussion on details of how this may affect PGE's undergrounding plan.</p> <p>c) Provide a list of the differences and improvements being made to V4 compared to V3.</p> <p>d) Is V4 undergoing third-party review similar to V2 and V3? If so, provide a status update on the review, including expected completion date for the related report.</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-015.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-015-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-015-Appendix-2.pdf</p>	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 PGE's response to OEIS Data Request 2 Question 5 Attachment 1</p> <p>a) How do PGE determine a mitigation effectiveness of 11% for down conductor detection (DCD)?</p> <p>b) In Table 8-4, PGE has indicated 2023, 2024 and 2023 targets for DCD. Additionally, in response to Callibrated Data Request 10 Question 1, PGE explains that 1,000 miles will be covered by DCD by 2025. However, within the attachment, PGE only demonstrates coverage of approximately 27.3M, 1.4M, and 0 miles in 2023, 2024, and 2025 respectively 2 Explain the discrepancy.</p> <p>c) Include the number of miles DCD covered in 2022, as well as how many additional miles will be covered based on PGE's targets for 2023, 2024, and 2025 broken down by year.</p> <p>d) How do PGE determine a mitigation effectiveness of 46% for EPSS?</p> <p>e) Why is a single average reduction (P/D) not included when PGE's mitigations within the attachment? If so, what would the mitigation effectiveness be for including P/D?</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-016.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-016-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-016-Appendix-2.pdf</p>	0	NA	8.1.2.10	Grid Design and System Hardening	Downed Conductor Detection Devices
231	OEIS	003	OEIS_003	17	OEIS_003_017	<p>Regarding unclassified letters in 8.4.6</p> <p>PGE discusses "red trigger" customers, "orange" customers, and "yellow" customers (including cities, utilities, and other governmental entities in 8.4.6 however, definitions of each term are not provided)</p> <p>a) Provide a definition, as it pertains to both wildfire and PSPS events in the context of Section 8.4.6, and the criteria by which these groups were identified as such for:</p> <p>i. "Red trigger" customers</p> <p>ii. "Orange" customers</p> <p>iii. "Yellow" customers</p>	Colin Long	4/10/2023	4/26/2023	4/26/2023	<p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-017.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-017-Appendix-1.pdf</p> <p>https://www.pge.com/~/media/2023/04/26/2023-04-26-Response-to-Question-017-Appendix-2.pdf</p>	0	NA	8.4.6	Emergency Preparedness	Customer Support in Wildfire and PSPS Emergencies

Row	CA/PA/TURN	System	Table	CA/PA/TURN	System	Table	CA/PA/TURN	System	Table	CA/PA/TURN
232	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_01	1	CaPA_Sat WMP-17_01	232	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_01	1
233	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_02	2	CaPA_Sat WMP-17_02	233	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_02	2
234	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_03	3	CaPA_Sat WMP-17_03	234	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_03	3
235	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_04	4	CaPA_Sat WMP-17_04	235	CA/PA	Sat WMP-17	CaPA_Sat WMP-17_04	4
236	TURN	006	TURN_006_01	1	TURN_006_01	236	TURN	006	TURN_006_01	1
237	TURN	006	TURN_006_02	2	TURN_006_02	237	TURN	006	TURN_006_02	2
238	TURN	006	TURN_006_03	3	TURN_006_03	238	TURN	006	TURN_006_03	3
239	TURN	006	TURN_006_04	4	TURN_006_04	239	TURN	006	TURN_006_04	4

250	CAIPA	Set WMP-18	CaPa_Set WMP-18	5	CaPa_Set WMP-18_Q5	<p>In response to question 19(b)(8) of CalEIR/California-PGE-2023/WMP-18, PGEAE states:</p> <p>The difference in projected vegetation management costs of \$24,461,000 between 2023 and 2024 is due to several factors, this is how PGEAE will achieve this reduction: (1) Transferring from EVM to three new programs (2) reducing the amount of Routine VM work conducted each year commensurate with the amount of undergrounding miles completed; and (3) reducing unit costs through efficiencies over the rate case period through targeted programmatic adjustments that refine processes and improve resource efficiency.</p> <p>a) How does transferring from EVM to three new programs result in a cost reduction?</p> <p>b) Please provide the following information about anticipated VM cost reductions from undergrounding in the below Year:</p> <p>Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 2024 2025</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024 See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	8.2.5.2	Vegetation Management and Inspections	Quality Control
250	CAIPA	Set WMP-18	CaPa_Set WMP-18	5 SUPP	CaPa_Set WMP-18_Q5 SUPP	<p>In response to question 19(b)(8) of CalEIR/California-PGE-2023/WMP-18, PGEAE states:</p> <p>The difference in projected vegetation management costs of \$24,461,000 between 2023 and 2024 is due to several factors, this is how PGEAE will achieve this reduction: (1) Transferring from EVM to three new programs (2) reducing the amount of Routine VM work conducted each year commensurate with the amount of undergrounding miles completed; and (3) reducing unit costs through efficiencies over the rate case period through targeted programmatic adjustments that refine processes and improve resource efficiency.</p> <p>a) How does transferring from EVM to three new programs result in a cost reduction?</p> <p>b) Please provide the following information about anticipated VM cost reductions from undergrounding in the below Year:</p> <p>Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 2024 2025</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	8.2.5.2	Vegetation Management and Inspections	Quality Control
251	CAIPA	Set WMP-18	CaPa_Set WMP-18	6	CaPa_Set WMP-18_Q6	<p>In response to question 19(b)(8) of CalEIR/California-PGE-2023/WMP-18, PGEAE states:</p> <p>The difference in projected vegetation management costs of \$24,461,000 between 2023 and 2024 is due to several factors, this is how PGEAE will achieve this reduction: (1) Transferring from EVM to three new programs (2) reducing the amount of Routine VM work conducted each year commensurate with the amount of undergrounding miles completed; and (3) reducing unit costs through efficiencies over the rate case period through targeted programmatic adjustments that refine processes and improve resource efficiency.</p> <p>a) For which specific programs does PGEAE anticipate reducing unit costs as mentioned in the quote above?</p> <p>b) For each individual program identified by you in response to the previous part, please state the following:</p> <p>i. Program/Initiative name ii. How/where does PGEAE anticipate reducing unit costs? iii. Describe the targeted programmatic adjustments that PGEAE is considering or planning to make. iv. State the current unit costs and the applicable costs. v. State the unit costs that PGEAE anticipates achieving in 2024 (on average for the year). vi. State the unit costs that PGEAE anticipates achieving in 2025 (on average for the year).</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	8.2.5.2	Vegetation Management and Inspections	Quality Control
252	CAIPA	Set WMP-18	CaPa_Set WMP-18	7	CaPa_Set WMP-18_Q7	<p>Please provide the following information regarding actual and projected costs for each WMP initiative under Chapter 8.2 (Vegetation Management and Inspections). Each initiative should be a row in the table below:</p> <p>WMP Initiative Number Initiative Name 2022 2023 2024 2025 Capital Expenditure (Actual) Capital Expenditure (Forecast) 2022 Operating Expense (Actual) 2023 Operating Expense (Forecast) 2024 Operating Expense (Forecast) 2025 Operating Expense (Forecast)</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	8.2	Vegetation Management and Inspections	NA
253	TURN	008	TURN_008	1	TURN_008_Q1	<p>Please provide PGEAE's most recent calculation of RSEs for Undergrounding, by year from 2023-2025, at the most granular level for which PGEAE has completed them. For this question, "undergrounding" refers to all programs that underground distribution lines for wildfire mitigation purposes and/or fire risk reduction. Please provide the worksheets with the supporting inputs and calculations for these RSEs in Excel format.</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>2</p>	NA	7.2	Wildfire Mitigation Strategy Development	Risk Impact of Mitigation Initiatives
254	TURN	008	TURN_008	2	TURN_008_Q2	<p>Please provide PGEAE's most recent calculation of RSEs for Covered Conductor, by year from 2023-2025, at the most granular level for which PGEAE has completed them. Please identify all activities that PGEAE includes in the calculation of RSE for Covered Conductor. Please provide the worksheets with the supporting inputs and calculations for these RSEs in Excel format.</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	7.2.2	Wildfire Mitigation Strategy Development	Risk Impact of Mitigation Initiatives
255	TURN	008	TURN_008	3	TURN_008_Q3	<p>Regarding the Undergrounding Decision Tree provided in response to Data Request 5.1, A.6h-1, is there an error in the alternative responses to the question of the "right" VM a rule or project scope change mitigation implementation? If yes, please explain the "yes" and "no" alternatives should be figured. If there is an error, please provide a corrected Decision Tree.</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>0</p>	NA	8.1.2	Grid Design and System Hardening	ALL
256	TURN	008	TURN_008	4	TURN_008_Q4	<p>The first paragraph of the response to TURN data request 5.4 states that, historically, PGEAE has obtained more granular wildfire and larger wildfire associated with the overall primary distribution powerlines, compared to lower voltage secondary distribution lines, service conductors and high voltage transmission lines.</p> <p>a) Please provide, in the Excel format, the data on which the statement is based, and provide an explanation of what PGEAE believes the data shows.</p> <p>b) Please provide the data from 2015 to the present, allowing for each primary distribution overhead line, secondary distribution overhead lines, service conductors, and high voltage transmission lines.</p> <p>Number of ignitions: i. Number of ignitions normalized by mileage. ii. Size (e.g., acres) of fires resulting from ignitions, and iii. Number of structures destroyed by fires resulting from ignitions.</p> <p>See response above for 2023. See response above for 2024. 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p>	<p>443 Year Number of Undergrounding Miles to be Completed Planned reduction in Number of Routine VM Miles Amount of Routine VM Cost Savings from Undergrounding (\$M) 2023 565 Miles Planned for 2023 2024 440 Miles Planned for 2024</p> <p>1</p>	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

257	TURN	008	TURN_008	5	TURN_008_Q5	<p>In response to TURN DR 4, after finalizing PG&E's not undergrounding service drops as not undergrounding secondary lines in most cases. PG&E states in the last paragraph, "We will overhead remaining secondary and service lines to existing open-wire secondary, guy service, and line-connects with the current standard overhead construction." (Emphasis added)</p> <p>What is meant by the word "existing"? Is this correct?</p> <p>Does the term "existing" describe an undergrounding project, some of the "undergrounding" work typically consists of overhead hardening of secondary and service lines? Please explain your answer.</p> <p>Does the term "existing" describe an undergrounding project which includes overhead hardening of secondary and service lines and when an undergrounding project would not include such overhead hardening work, please describe an estimate of the percentage of undergrounding projects that include overhead hardening of secondary and service lines.</p> <p>1) Is Table 3-2 of the WMP for the new "100 undergrounding" (initials C4-04) the target miles for "undergrounding work" include overhead hardening of secondary and service lines? If not, where is the overhead hardening of secondary and service lines described in the DR response to "It will be 43"?</p> <p>2) Do PG&E's unit cost estimates for "undergrounding" include the costs of overhead hardening of secondary and service lines that are included in "undergrounding" projects? Please explain your response.</p> <p>3) Do PG&E's RISE calculations for "undergrounding" include miles, costs, and reduction benefits from overhead hardening of secondary and service lines that may be included in "undergrounding" projects? Please explain your response.</p>	Tom Long	4240203	4270203	4270203	0	NA	8.1,2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution	
258	TURN	008	TURN_008	6	TURN_008_Q6	<p>PG&E's WMP (p. 25) states that "SCC has determined that lines with covered conductors have a 90% risk in PPSIS situations. When a causal (or fully attributable causal) segment is all covered conductors, the de-energization potential has experienced a reduction in PPSIS activities."</p> <p>Please provide any data, studies or reports in PG&E's possession that address whether bare covered conductors have experienced a reduction in PPSIS activities.</p> <p>Please provide any reports or studies in PG&E's possession that assess whether any de-energization thresholds should be changed for circuits in portions thereof with covered conductors.</p> <p>Does PG&E have plans to do any studies in the future to assess whether any de-energization thresholds should be changed for circuits in portions thereof with covered conductors? If yes, describe what will be studied and the planned timing for the study or studies.</p>	Tom Long	4240203	4270203	4270203	0	NA	8.1,2.1.4.9	Grid Design and System Hardening & PPSIS	Covered Conductors and PPSIS	
259	CaPA	Set WMP-19	CaPA_Set WMP-19	1	CaPA_Set WMP-19_Q1	<p>Please list PG&E's expected average useful life for a given installation of the following technologies: i)DCD ii)RELOC</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q1-2023-cad-reloc-reports-09-08-2023.pdf</p>	0	NA	8.1	Grid Design, Operations, and Maintenance	Open Conductor Detection Devices Report Error Feed Content Linker
260	CaPA	Set WMP-19	CaPA_Set WMP-19	2	CaPA_Set WMP-19_Q2	<p>In 2023, what is the average per-circuit-mile cost that PG&E expects to incur for asset inspection and maintenance for a covered conductor distribution line installed in the HFTD?</p> <p>In 2023, what is the average per-circuit-mile cost that PG&E expects to incur for asset inspection and maintenance for a bare distribution line installed in the HFTD?</p> <p>Please state the assumptions and inputs for your estimates for parts (a) through (d).</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q2-2023-asset-inspection-and-maintenance-costs-09-08-2023.pdf</p>	0	NA	8.1,5	Asset Management and Inspection (Enterprise Systems)	NA
261	CaPA	Set WMP-19	CaPA_Set WMP-19	3	CaPA_Set WMP-19_Q3	<p>State the total costs that PG&E incurred in 2022 for asset inspections and maintenance on covered conductor distribution lines installed in the HFTD.</p> <p>State the total number of circuits/miles of covered conductor distribution lines that PG&E had in the HFTD on January 1, 2022.</p> <p>State the total costs that PG&E incurred in 2022 for asset inspections and maintenance on bare overhead distribution lines installed in the HFTD.</p> <p>State the total number of circuits/miles of bare overhead distribution lines that PG&E had in the HFTD on January 1, 2022.</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q3-2022-asset-inspection-and-maintenance-costs-09-08-2023.pdf</p>	0	NA	8.1,2	Grid Design, Operations, and Maintenance	Grid Design and System Hardening
261	CaPA	Set WMP-19	CaPA_Set WMP-19	3USSPP	CaPA_Set WMP-19_Q3USSPP	<p>State the total costs that PG&E incurred in 2022 for asset inspections and maintenance on covered conductor distribution lines installed in the HFTD.</p> <p>State the total number of circuits/miles of covered conductor distribution lines that PG&E had in the HFTD on January 1, 2022.</p> <p>State the total costs that PG&E incurred in 2022 for asset inspections and maintenance on underground distribution lines installed in the HFTD.</p> <p>State the total number of circuits/miles of underground distribution lines that PG&E had in the HFTD on January 1, 2022.</p> <p>State the total costs that PG&E incurred in 2022 for asset inspections and maintenance on bare overhead distribution lines installed in the HFTD.</p> <p>State the total number of circuits/miles of bare overhead distribution lines that PG&E had in the HFTD on January 1, 2022.</p>	Holly Wehman	4250203	5100203	5100203	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q3-2022-asset-inspection-and-maintenance-costs-09-08-2023.pdf</p>	0	NA	8.1,2	Grid Design, Operations, and Maintenance	Grid Design and System Hardening
262	CaPA	Set WMP-19	CaPA_Set WMP-19	4	CaPA_Set WMP-19_Q4	<p>In 2023, what is the average per-circuit-mile cost that PG&E expects to incur for vegetation management on a bare overhead distribution line installed in the HFTD?</p> <p>In 2023, what is the average per-circuit-mile cost that PG&E expects to incur for vegetation management on an underground distribution line installed in the HFTD?</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q4-2023-vegetation-management-costs-09-08-2023.pdf</p>	0	NA	8.2	Vegetation Management and Inspections	NA
263	CaPA	Set WMP-19	CaPA_Set WMP-19	5	CaPA_Set WMP-19_Q5	<p>State the total costs that PG&E incurred in 2022 for vegetation management on overhead distribution lines in the HFTD.</p> <p>State the total costs that PG&E incurred in 2022 for vegetation management on underground distribution lines in the HFTD.</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q5-2022-vegetation-management-costs-09-08-2023.pdf</p>	0	NA	8.2	Vegetation Management and Inspections	NA
264	CaPA	Set WMP-19	CaPA_Set WMP-19	6	CaPA_Set WMP-19_Q6	<p>Please describe the vegetation management activities that PG&E currently undertakes on rights-of-way with the following characteristics: i) PG&E describes any changes PG&E plans to make during the 2023-2025 WMP period regarding the vegetation management activities that PG&E plans to undertake on rights-of-way with underground lines in the HFTD. ii) PG&E describes any procedures, processes, or manuals that describe PG&E's approach to vegetation management on rights-of-way with underground lines in the HFTD.</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q6-2023-vegetation-management-activities-09-08-2023.pdf</p>	0	NA	8.2	Vegetation Management and Inspections	NA
265	CaPA	Set WMP-19	CaPA_Set WMP-19	7	CaPA_Set WMP-19_Q7	<p>Please describe the vegetation management activities that PG&E currently undertakes on rights-of-way with the following characteristics: i) PG&E describes any changes PG&E plans to make during the 2023-2025 WMP period regarding the vegetation management activities that PG&E plans to undertake on rights-of-way with underground lines in the HFTD. ii) PG&E describes any procedures, processes, or manuals that describe PG&E's approach to vegetation management on rights-of-way with underground lines in the HFTD.</p>	Holly Wehman	4250203	4282023	4282023	<p>https://www.pge.com/docs/default-source/customer-experience/2023-2025-wmp/capareports/ca-pa-set-wmp-19-q7-2023-vegetation-management-activities-09-08-2023.pdf</p>	0	NA	8.1,7,2	Open Work Orders	Open Work Orders - Distribution Tags

266	CaPA	Set WMP-19	CaPa_Sat WMP-19_08	8	CaPa_Sat WMP-19_08	<p>Page 454 of PG&E's WMP states "We divide remaining notifications into two groups: (1) ignition risk notifications in the HFD/DFRA, and (2) non-ignition risk notifications in the HFD/DFRA."</p> <p>a) How does PG&E determine whether a maintenance issue is an "ignition risk notification" or a "non-ignition risk notification?"</p> <p>b) Are there circumstances where a job is a "non-ignition risk" but still poses other public safety hazards?</p> <p>c) If the answer to part (b) is yes, please list all such circumstances.</p>	<p>Any notification with a higher than zero wildfire risk score is considered an ignition risk notification.</p> <p>b) Yes, there are some instances where a non-ignition risk notification is not considered an ignition risk notification. For example, a job that involves the replacement of a transformer or a capacitor bank is not considered an ignition risk notification. However, if the job involves the replacement of a transformer or a capacitor bank that is located in a high-voltage area, it may be considered an ignition risk notification.</p> <p>c) Yes, there are some public safety hazards associated with non-ignition risk notifications. For example, a job that involves the replacement of a transformer or a capacitor bank may result in a power outage, which could be a public safety hazard. However, if the job involves the replacement of a transformer or a capacitor bank that is located in a high-voltage area, it may be considered an ignition risk notification.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	8.1.7.2	Open Work Orders	Open Work Orders - Distribution Tags
267	CaPA	Set WMP-19	CaPa_Sat WMP-19_09	9	CaPa_Sat WMP-19_09	<p>Page 455 of PG&E's WMP mentions an internal study that stated: "For the weather program, it may be necessary to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria."</p> <p>a) In response to this report, has PG&E assessed the need to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria?</p> <p>b) If the answer to part (a) is yes, please describe the results of any such assessment.</p> <p>c) In the 2022-2023 period, does PG&E plan to assess (or continue assessing) the need to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria?</p>	<p>a) Yes, PG&E has assessed the need to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria. This assessment was completed in 2022 and the results are included in the 2023 WMP.</p> <p>b) Yes, PG&E has assessed the need to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria. This assessment was completed in 2022 and the results are included in the 2023 WMP.</p> <p>c) Yes, PG&E plans to assess (or continue assessing) the need to position additional weather stations in canyons and other regions where short-term winds can rapidly meet criteria in the 2023-2024 period.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	Appendix D	Area for Continued Improvement	ACI PG&E-22-10 - Justification of Weather Station Network Density
268	CaPA	Set WMP-19	CaPa_Sat WMP-19_10	10	CaPa_Sat WMP-19_10	<p>Table PG&E-22-11 on page 603 of PG&E's WMP lists the component tasks of covered conductor installation. Below the table, PG&E states: "The tasks in Table PG&E-22-11 include the components for CC that are comparable with the other COAs as part of the joint COA efforts. They do not include all component tasks that are part of our comprehensive Overhead System Hardening Program."</p> <p>a) How does PG&E determine which tasks are included in Table PG&E-22-11?</p> <p>b) For each item in Table PG&E-22-11, indicate the reference in part (a) to please provide a brief description of the work and materials used to include each component.</p>	<p>a) PG&E determines which tasks are included in Table PG&E-22-11 based on the components for CC that are comparable with the other COAs as part of the joint COA efforts. They do not include all component tasks that are part of our comprehensive Overhead System Hardening Program.</p> <p>b) For each item in Table PG&E-22-11, PG&E provides a brief description of the work and materials used to include each component.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	Appendix D	Area for Continued Improvement	ACI PG&E-22-11 - Covered Conductor Effectiveness Lessons Learned
269	CaPA	Set WMP-19	CaPa_Sat WMP-19_11	11	CaPa_Sat WMP-19_11	<p>Pages 468-469 of PG&E's WMP describe PG&E's amplified wildfire risk spend effectiveness (SWRISE), used to prioritize its undergrounding program.</p> <p>a) How does PG&E determine which SWRISE value is used to determine which projects are prioritized for undergrounding?</p> <p>b) How does PG&E determine which SWRISE value is used to determine which projects are prioritized for undergrounding?</p> <p>c) How does PG&E determine which SWRISE value is used to determine which projects are prioritized for undergrounding?</p>	<p>a) PG&E determines which SWRISE value is used to determine which projects are prioritized for undergrounding based on the SWRISE value for each project.</p> <p>b) PG&E determines which SWRISE value is used to determine which projects are prioritized for undergrounding based on the SWRISE value for each project.</p> <p>c) PG&E determines which SWRISE value is used to determine which projects are prioritized for undergrounding based on the SWRISE value for each project.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	Appendix D	Area for Continued Improvement	ACI PG&E-22-14 - Review Process of Firebreak Wildfire Mitigation
270	CaPA	Set WMP-19	CaPa_Sat WMP-19_12	12	CaPa_Sat WMP-19_12	<p>Attachment 11: PG&E's response to data request California-REG-2022-01-01 states that on November 16, 2022, an interactive inspection indicated that a pole had 18% remaining strength. On January 14, 2023, the inspector issued a permit to replace the pole by January 15, 2023.</p> <p>a) Why was the log for the above pole created approximately two months after the video footage?</p> <p>b) Describe the steps PG&E took between November 16, 2022 and January 14, 2023 to address the safety of the pole until it was replaced.</p> <p>c) Why was the log created with a one-year deadline based on the log creation date, rather than a deadline based on the date of the initial footage?</p> <p>d) How does PG&E conduct procedures and processes in the compliance deadline if a new log based on the log creation date is the date of the initial footage? Please explain your answer.</p> <p>e) Was a priority 6 log the appropriate priority level in this instance? Why or why not?</p>	<p>a) The log was created approximately two months after the video footage because the log creation date is the date of the initial footage.</p> <p>b) PG&E conducted procedures and processes in the compliance deadline if a new log based on the log creation date is the date of the initial footage.</p> <p>c) The log was created with a one-year deadline based on the log creation date, rather than a deadline based on the date of the initial footage.</p> <p>d) PG&E conducted procedures and processes in the compliance deadline if a new log based on the log creation date is the date of the initial footage.</p> <p>e) Yes, a priority 6 log was the appropriate priority level in this instance.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	8.1.3.2.3	Asset Inspections	Intrusive Pole Inspectors
271	CaPA	Set WMP-19	CaPa_Sat WMP-19_13	13	CaPa_Sat WMP-19_13	<p>The PG&E Independent Safety Monthly Status Update Report by Falmeg Energy Pathways on October 4, 2022, page 9 states:</p> <p>"During the period, the ISM reviewed data provided by PG&E related to PG&E's Underground Transmission asset tags and the average age of certain PG&E Underground Transmission Assets. For example, 60% of one type of underground transmission asset was 10 years old."</p> <p>a) How does PG&E determine the average age of its underground transmission assets?</p> <p>b) How does PG&E determine the average age of its underground transmission assets?</p> <p>c) How does PG&E determine the average age of its underground transmission assets?</p>	<p>a) PG&E determines the average age of its underground transmission assets based on the age of the assets.</p> <p>b) PG&E determines the average age of its underground transmission assets based on the age of the assets.</p> <p>c) PG&E determines the average age of its underground transmission assets based on the age of the assets.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	1	NA	8.1.2.5	Grid Design and System Hardening	Traditional Overhead Hardening - Transmission Conductors and Distribution
272	CaPA	Set WMP-19	CaPa_Sat WMP-19_14	14	CaPa_Sat WMP-19_14	<p>On April 13, 2023, Cal Advertiser met with a Senior Director of Grid Research Innovation and Development at PG&E. During this meeting, PG&E stated that REFCL is not a suitable product.</p> <p>a) Does the above statement accurately reflect PG&E's current assessment of REFCL? Please explain your answer.</p> <p>b) If the answer to part (a) is yes, please state all the reasons why PG&E believes REFCL is not a suitable product.</p>	<p>a) Yes, the above statement accurately reflects PG&E's current assessment of REFCL.</p> <p>b) PG&E believes REFCL is not a suitable product because it does not meet the requirements for a suitable product.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	8.1.8.1.3.1	Grid Design, Operations, and Maintenance	8.1.8.1.3.1 Report Earth Fault Current Limiter
273	CaPA	Set WMP-19	CaPa_Sat WMP-19_15	15	CaPa_Sat WMP-19_15	<p>a) Has PG&E performed a study to estimate the combined effectiveness of one or more combinations of covered conductor (CC), DCOP, and REFCL in mitigating wildfires, when installed on distribution circuits under the FTD?</p> <p>b) If the answer to part (a) is no, please explain why not.</p> <p>c) If the answer to part (a) is no, does PG&E plan to perform such a study? If so, provide the timeline for initiating and completing it.</p> <p>d) If the answer to part (a) is yes, please provide the results of any such study, including any reports, workshops, or other work products.</p>	<p>a) PG&E has performed a study to estimate the combined effectiveness of one or more combinations of covered conductor (CC), DCOP, and REFCL in mitigating wildfires, when installed on distribution circuits under the FTD.</p> <p>b) No, PG&E has not performed a study to estimate the combined effectiveness of one or more combinations of covered conductor (CC), DCOP, and REFCL in mitigating wildfires, when installed on distribution circuits under the FTD.</p> <p>c) PG&E plans to perform such a study in the future.</p> <p>d) PG&E has performed a study to estimate the combined effectiveness of one or more combinations of covered conductor (CC), DCOP, and REFCL in mitigating wildfires, when installed on distribution circuits under the FTD.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	8.1.2	Grid Design and System Hardening	Vegetation
274	CaPA	Set WMP-19	CaPa_Sat WMP-19_16	16	CaPa_Sat WMP-19_16	<p>Table 7 on page 20 of the Joint COA Covered Conductor Working Group Report lists COE's estimate of the combined effectiveness of its covered conductor program, asset inspections, and several vegetation management programs.</p> <p>a) Has PG&E performed a similar estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs?</p> <p>b) If the answer to part (a) is yes, please explain the results of PG&E's estimate.</p> <p>c) If the answer to part (a) is no, please explain why not.</p> <p>d) If the answer to part (a) is no, does PG&E plan to perform such a study?</p>	<p>a) PG&E has performed a similar estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs.</p> <p>b) PG&E's estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs is included in the 2023 WMP.</p> <p>c) PG&E has not performed a similar estimate of the combined effectiveness of covered conductor, asset inspections, and vegetation management programs.</p> <p>d) PG&E plans to perform such a study in the future.</p>	Holly Whitman	4/5/2023	4/8/2023	4/8/2023	0	NA	Appendix D	Area for Continued Improvement	ACI PG&E-22-11 - Covered Conductor Effectiveness Lessons Learned
275	CaPA	Set WMP-20	CaPa_Sat WMP-20_01	1	CaPa_Sat WMP-20_01	<p>a) Describe PG&E's planned process for retiring an asset from service.</p> <p>b) Describe how PG&E records the retirement of an asset from service.</p>	<p>a) PG&E's planned process for retiring an asset from service is included in the 2023 WMP.</p> <p>b) PG&E records the retirement of an asset from service in the 2023 WMP.</p>	Holly Whitman	4/6/2023	5/3/2023	5/3/2023	1	NA	8.1.5	Asset Management and Inspection (Enterprise Systems)	NA
276	CaPA	Set WMP-20	CaPa_Sat WMP-20_02	2	CaPa_Sat WMP-20_02	<p>In 2022, as part of its WMP system hardening activities, did PG&E retire from service (i.e., replace, remove, destroy, or decommission) any assets that had not been fully depreciated at the time of retirement?</p> <p>a) Please describe how PG&E records the retirement of assets during 2022 system hardening activities.</p>	<p>a) PG&E has retired from service (i.e., replaced, removed, destroyed, or decommissioned) assets that had not been fully depreciated at the time of retirement.</p> <p>b) PG&E records the retirement of assets during 2022 system hardening activities in the 2023 WMP.</p>	Holly Whitman	4/6/2023	5/3/2023	5/3/2023	0	NA	8.1.2	Grid Design and System Hardening	All
277	CaPA	Set WMP-20	CaPa_Sat WMP-20_03	3	CaPa_Sat WMP-20_03	<p>In 2022, as part of its WMP system hardening activities, did PG&E retire from service (i.e., replace, remove, destroy, or decommission) any assets that had not been fully depreciated at the time of retirement?</p> <p>a) Please describe how PG&E records the retirement of assets during 2023 system hardening activities.</p>	<p>a) PG&E has retired from service (i.e., replaced, removed, destroyed, or decommissioned) assets that had not been fully depreciated at the time of retirement.</p> <p>b) PG&E records the retirement of assets during 2023 system hardening activities in the 2023 WMP.</p>	Holly Whitman	4/6/2023	5/3/2023	5/3/2023	0	NA	8.1.2	Grid Design and System Hardening	All

ID	System	Request No.	Request Title	Priority	Request Description	Requestor	Due Date	Start Date	End Date	URL	Status	Notes	Comments
292	CaPA	Set WMP/21	CaPA_Set WMP/21	3	CaPA_Set WMP/21_Q3								
293	CaPA	Set WMP/21	CaPA_Set WMP/21	4	CaPA_Set WMP/21_Q4								
294	MGRA	Data Request No. 4	MGRA_Data Request No. 4	1	MGRA_Data Request No. 4_Q1								
295	MGRA	Data Request No. 4	MGRA_Data Request No. 4	2	MGRA_Data Request No. 4_Q2								
296	MGRA	Data Request No. 4	MGRA_Data Request No. 4	3	MGRA_Data Request No. 4_Q3								
297	MGRA	Data Request No. 4	MGRA_Data Request No. 4	4	MGRA_Data Request No. 4_Q4								
298	MGRA	Data Request No. 4	MGRA_Data Request No. 4	5	MGRA_Data Request No. 4_Q5								
299	MGRA	Data Request No. 4	MGRA_Data Request No. 4	6	MGRA_Data Request No. 4_Q6								
300	MGRA	Data Request No. 4	MGRA_Data Request No. 4	7	MGRA_Data Request No. 4_Q7								
301	MGRA	Data Request No. 4	MGRA_Data Request No. 4	8	MGRA_Data Request No. 4_Q8								
302	TURN	010	TURN_010	1	TURN_010_Q1								
303	TURN	010	TURN_010	2	TURN_010_Q2								
304	TURN	010	TURN_010	3	TURN_010_Q3								
305	TURN	010	TURN_010	4	TURN_010_Q4								
306	TURN	010	TURN_010	5	TURN_010_Q5								
307	TURN	010	TURN_010	6	TURN_010_Q6								

322	CAIQA	Set WMP-23	CAIQA_Set WMP-23_02	CAIQA_Set WMP-23_010	<p>The CONFIDENTIAL statements are being provided pursuant to the accompanying confidentiality declaration.</p> <p>1) The areas below and high-voltage systems were part of the 2023 quality assurance and inspection program.</p> <p>2) Zero Tolerance - Work Not Done (WN/D) (4) Misused Inspectors (1) Unsafe conductor practices (10) High-Risk (1) Environmental/contaminated conductors (3) Internal/external (2) Wrong sign inspectors (2) PCB transformers (4) To mitigate the non-conformance in the future, below are some of the actions taken by PG&E for the zero-tolerance program.</p> <p>3) Misused Inspectors - PG&E performs quality reviews and dispatches any missed areas for urgent inspections. PG&E provides annual reporting to the CPUC, on any and all late or missed CGSE Inspections.</p> <p>4) Unsafe conductor practices - Based on page 15 of WMP-Dissemination2023_DR_California02_02-03-2023-02-04-CONF.pdf, the guidance for the field employees is to visually check for accessories connected or disconnected and ensure hardware which has been removed is properly stored or disposed of. If observed, create EC notification to replace connectors or disconnect hardware.</p> <p>5) Environmental/contaminated conductors (Internal/External) - Based on page 14 of WMP-Dissemination2023_DR_California02_02-03-2023-02-04-CONF.pdf, the guidance for the field employees is to visually check the field employees to ensure that all conductors (primary/secondary), associated equipment, and hardware are inspected for non-compliance on the weather head or on the conductor's termination point. If observed, create EC notification to repair or replace the conductor.</p> <p>6) Wrong sign inspectors - The guidance for the field employees is that if a sign is observed in a wrong work area, they should stop work and report the sign to their supervisor. If observed, create EC notification to correct the sign.</p> <p>7) PCB transformers - Based on the TD-2035 EOPM Manual Assessments and Notification section for PCB Transformers testing - Based on the TD-2035 EOPM Manual Assessments and Notification section for PCB Transformers testing - Based on the TD-2035 EOPM Manual Assessments and Notification section for PCB Transformers testing - Based on the TD-2035 EOPM Manual Assessments and Notification section for PCB Transformers testing.</p> <p>8) To mitigate the non-compliance in the future:</p> <p>a) Please describe all actions PG&E has taken to reduce the risk of critical attribute non-compliance in future distribution system inspections.</p> <p>b) Please describe all actions PG&E has taken to reduce the risk of critical attribute non-compliance in future distribution system inspections.</p> <p>c) Please compare and contrast the 2022 Quality Verification Distribution Audit mentioned above and the QA program for systems inspections that PG&E plans to implement pursuant to 8.1.6.1 in PG&E's WMP.</p>	Holly Whiteman	5/30/2023	5/30/2023	5/30/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	2	NA	8.1.6.1	Grid Design and System Hardening	Quality Assurance and Quality Control
323	CAIQA	Set WMP-23	CAIQA_Set WMP-23_11	CAIQA_Set WMP-23_011	<p>Table PG&E-8.1.2-3 on page 349 of PG&E's WMP lists the number of underground miles to be performed in the Top 20 percent Risk-Rated Circuit Segments for 2022, 2023, 2024, and 2025. The table notes: "The 2023 risk work for segments is based on the 2021 WORM v3. The 2024-2025 risk work for segments is based on the 2022 WORM v4."</p> <p>a) Please define "Top 20 percent Risk-Rated Circuit Segments" for each year from 2023-2025.</p> <p>b) How many circuit miles are contained within the "Top 20 percent Risk-Rated Circuit Segments" for each year from 2023-2025?</p> <p>c) Does the phrase "Top 20 percent Risk-Rated Circuit Segments" refer to the top 20 percent of circuit segments PG&E's entire service territory across the WFTD or other categorization? Please explain your answer.</p>	Holly Whiteman	5/30/2023	5/30/2023	5/30/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
324	CAIQA	Set WMP-23	CAIQA_Set WMP-23_01	CAIQA_Set WMP-23_01	<p>PG&E states in WMP-Dissemination2023_DR_California02_02-03-2023-02-04-CONF.pdf, subparts c, and d. Additionally, we have been investigating three or more times any other year from 2019 to 2022. These circuits are noted below as "integrated with PSPS Protocols." Please explain in detail how circuit ID 152481100 (circuit name discussed in 1210) would have been mitigated by PSPS Protocols.</p>	Holly Whiteman	5/30/2023	5/30/2023	5/30/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	9.2	Public Safety Power Shutoff	Protocols on PSPS
325	CAIQA	Set WMP-23	CAIQA_Set WMP-23_02	CAIQA_Set WMP-23_02	<p>See response to question 1 in this data request for explanation on how the current PSPS Protocols would mitigate customer service.</p>	Holly Whiteman	5/30/2023	5/30/2023	5/30/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	9.2	Public Safety Power Shutoff	Protocols on PSPS
326	CAIQA	Set WMP-23	CAIQA_Set WMP-23_03	CAIQA_Set WMP-23_03	<p>Regarding PG&E's AFN/FPLA (Appendix C - Programmatic Assessment Particulars to Customer "Trust" (A) - A) please provide the demographic (sexually inclusive) breakdown and income distribution. If none, list the reasons why you are not able to provide this information.</p> <p>b) Please provide the demographic (sexually inclusive) breakdown and income distribution. If none, list the reasons why you are not able to provide this information.</p> <p>c) Generator and Safety Battery Program (GBPP).</p>	Holly Whiteman	5/30/2023	5/30/2023	5/30/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	3	NA	8.5.3	Community Outreach and Engagement	Engagement with Access and Functional Needs Population
327	OEIS	004	OEIS_004	1	<p>Regarding Igration Probability Weather Model (IPW) - PG&E's WMP states IPW Evaluation analyzes positive and negative changes in grid performance and identifies potential areas of concern. It provides a methodology approach to weigh more recent years' learned performance more heavily in the four model output (i.e., TRS).</p> <p>a) Please describe the methodology used to evaluate changes in grid performance and reliability.</p> <p>b) Provide a description of changes in event, ignition, and outage numbers and locations of changes PG&E has observed in the IPW model compared to the IPW model used in the 2019 WMP. Please explain the impact of these changes on the IPW model.</p> <p>c) Provide a description of changes in event, ignition, and outage numbers and locations of changes PG&E has observed in the IPW model compared to the IPW model used in the 2019 WMP. Please explain the impact of these changes on the IPW model.</p> <p>d) Provide a description of changes in event, ignition, and outage numbers and locations of changes PG&E has observed in the IPW model compared to the IPW model used in the 2019 WMP. Please explain the impact of these changes on the IPW model.</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	9.2.1	Public Safety Power Shutoff	Risk Thresholds (e.g., WS, FPL, etc.) and Decision-Making Process that Determine the Need for a PSPS
328	OEIS	004	OEIS_004	2	<p>Regarding EPSS in IPW Model</p> <p>a) How does the IPW Model account for EPSS-enabled circuits?</p> <p>b) How does the IPW Model account for EPSS-enabled circuits?</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	9.2.1	Public Safety Power Shutoff	Risk Thresholds (e.g., WS, FPL, etc.) and Decision-Making Process that Determine the Need for a PSPS
329	OEIS	004	OEIS_004	3	<p>Regarding AFN Action Reports for Emergency Preparedness</p> <p>Please provide the most recent AFN Action Report from emergency training exercises for the following exercises:</p> <ul style="list-style-type: none"> Table 8-39 Personnel Training AFN Emergency Preparedness Training Program PSPS Restoration Process PSPS Execution in Distribution Center (DCC) Operations Table 8-41 Internal DRB Simulation, And Tabletop Exercise Program Operations Based WFTD FE Operations Based WFTD FE Table 8-42 External DRB Simulation, And Tabletop Exercise Program Operations Based WFTD FE 	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	2	NA	8.4.2.2	Emergency Preparedness	Personnel Training
330	OEIS	004	OEIS_004	4	<p>Regarding Customer Groups in PSPS Disruption-04</p> <p>a) How does PG&E define this group of customers (not limited to AFN, MEL, and sub-partners) who are at high risk of being impacted by PSPS?</p> <p>b) How does PG&E define this group of customers (not limited to AFN, MEL, and sub-partners) who are at high risk of being impacted by PSPS?</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	0	NA	8.5.3	Commonly Outreach and Engagement	Engagement With Access and Functional Needs Populations
331	OEIS	004	OEIS_004	5	<p>Regarding Areas of Concern and Focused Tree Inspections (FTI)</p> <p>a) How does PG&E address risk from power lines that are not adequately dead, dry, or decluttered in non-forested areas?</p> <p>b) During FTI, during FTI, what information is inspected into OneWork? Provide a copy of the form(s) within OneWork inspections are required to complete FTI.</p> <p>c) During FTI, during FTI, what information is inspected into OneWork? Provide a copy of the form(s) within OneWork inspections are required to complete FTI.</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
332	OEIS	004	OEIS_004	6	<p>Regarding Enhanced Vegetation Management</p> <p>a) Provide the following table with information regarding EVM</p> <p>WFTD Miles Completed</p> <p>Inspector Skills Potential Trees</p> <p>Tree Volume</p> <p>Average Trees Per Mile</p> <p>% of Miles in Top 20% of Risk</p> <p>2019</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Total</p> <p>b) Provide a GIS layer of the features showing where EVM work was completed.</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi... https://www.pge.com/gea/4836/communi...	1	NA	8.2.2.6	Vegetation Management and Inspections	Discouraged Programs

332	OEIS	004	OEIS_004	GREV	OEIS_004_GREV	<p>Regarding Enhanced Vegetation Management</p> <p>• Provide the following table with information regarding EVM:</p> <p>Year HFTD Miles Completed Increased Data Pointed Trees Trees Worked Average Trees Per Mile % of Miles in Top 20% of Risk</p> <p>2015 2016 2017 2018 2019 2020 Total</p> <p>Provide a GIS layer of the features showing where EVM work was completed.</p>	Coltr Lang	5/4/2023	5/15/2023	5/15/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
333	OEIS	004	OEIS_004		OEIS_004_07	<p>Q7: Regarding Vegetation-Caused Outages</p> <p>• Provide the following table of vegetation-caused outages by mode of failure in the HFTD between 2015 and 2022, broken out by year. PG&E may add additional rows (i.e., mode of failure) if needed.</p> <p>2015 2016 2017 2018 2019 2020 2021 2022</p> <p>Search (within radial: 1-30) Search (within radial: 4.1-20) Search (within radial: 4-6) Search (radial, distance unknown) Search (overhang) Crest Tree Tree Fall (investigative default) Tree Fall (upright default) Tree Fall (down) Tree Core Inrt Other/Unknown N/A</p>	Coltr Lang	5/4/2023	5/9/2023	5/9/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	1	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-28 – Progression of Effectiveness of Enhanced Clearance Joint Study
334	OEIS	004	OEIS_004		OEIS_004_08	<p>Regarding Vegetation Hazards Mitigated by PSPS</p> <p>• Does PG&E have data on vegetation hazards mitigated by PSPS? If so, provide the following table of vegetation hazards mitigated by mode of failure in the HFTD between 2015 and 2022, broken out by year. PG&E may add additional rows (i.e., mode of failure) if needed.</p> <p>MODE OF FAILURE FOR VEGETATION HAZARDS MITIGATED BY PSPS</p> <p>2015 2016 2017 2018 2019 2020 2021 2022</p> <p>Search (within radial: 1-30) Search (within radial: 4.1-20) Search (within radial: 4-6) Search (radial, distance unknown) Search (overhang) Crest Tree Tree Fall (investigative default) Tree Fall (upright default) Tree Fall (down) Tree Core Inrt Other/Unknown N/A</p>	Coltr Lang	5/4/2023	5/9/2023	5/9/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	0	NA	9.2.2	Public Safety Power Shutoff	Method Used to Compile and Validate the Relative Consequence of PSPS and Wetline
335	OEIS	004	OEIS_004		OEIS_004_09	<p>Regarding Coordination with Other Utilities on PSPS Wind Thresholds</p> <p>• In response to ACI PG&E-22-31, PG&E is in collaboration with the joint IOU team. PG&E has performed a self-study to evaluate how covered conductors reduce system risk compared to bare conductors.</p> <p>• PG&E is in collaboration with the covered conductor effectiveness study (Table 6-45, Line 1) to evaluate the effectiveness of covered conductors on reducing the risk of ignition.</p> <p>• PG&E is in collaboration with other utilities on covered conductor effectiveness of evaluating the effect of covered conductors on reducing the risk of ignition.</p> <p>• PG&E is in collaboration with other utilities on covered conductor effectiveness of evaluating the effect of covered conductors on reducing the risk of ignition.</p> <p>• PG&E is in collaboration with other utilities on covered conductor effectiveness of evaluating the effect of covered conductors on reducing the risk of ignition.</p>	Coltr Lang	5/4/2023	5/9/2023	5/9/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	1	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-31 – PSPS Wind Threshold Change Evaluation
336	OEIS	004	OEIS_004		OEIS_004_10	<p>Regarding Tree Falls and PSPS</p> <p>• PG&E is in collaboration with the joint IOU team. PG&E is performing a self-study to evaluate how covered conductors reduce system risk compared to bare conductors.</p> <p>• PG&E is in collaboration with other utilities on covered conductor effectiveness of evaluating the effect of covered conductors on reducing the risk of ignition.</p> <p>• PG&E is in collaboration with other utilities on covered conductor effectiveness of evaluating the effect of covered conductors on reducing the risk of ignition.</p>	Coltr Lang	5/4/2023	5/9/2023	5/9/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	0	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-31 – PSPS Wind Threshold Change Evaluation
337	OEIS	004	OEIS_004		OEIS_004_11	<p>Regarding RSE (Risk-Based) Information Requested by the WMP</p> <p>2022-2025 WMP Guidelines make specific requests for RSE, administrative risk reduction and cost, and prioritization decisions.</p> <p>1.4.1: Identifying and Evaluating Mitigation Initiatives</p> <p>(a) The procedures for identifying and evaluating mitigation initiatives (comparable to 2018 S&PP Supplement Section 2.0) including the use of risk-by-tree initiatives (i.e., targeted efficiency) and evaluating the benefits and drawbacks of mitigation.</p> <p>(b) Explain how the electrical corporation is integrating its responses to maintain risk reduction. Describe how the proposed initiatives are an efficient use of electrical corporation resources and focus on achieving the greatest risk reduction with the most benefit (i.e., cost and resource efficiency).</p> <p>(c) The electrical corporation must describe how it prioritizes mitigation initiatives to reduce both safety and PSPS risk. The description must include the following:</p> <p>(i) A high-level schematic showing the procedures and evaluation criteria used to evaluate potential mitigation initiatives. At a minimum, the schematic must demonstrate the role of quantitative risk assessment, resource allocation, evaluation of other performance objectives (e.g., cost, timing) identified by the electrical corporation, and RSE impact.</p> <p>(ii) PG&E must provide a graph of HFRM WMP 8.0 System Handling Bylaws, Figure 6.8-1.1, but the detail provided does not allow evaluation to recreate with context from section 8) and the also missing important components of RSE. In particular, a detailed description of RSE (the risk-by-tree process) is needed to reconcile with the information provided in tables 7-2 and 7-4. Please complete the following, including but not limited to, as applicable:</p> <ul style="list-style-type: none"> Provide RSE (Risk-by-tree) information in a new RSE table as follows, nested in descending order of RSE. Initiative Tracking ID WMP Category Circuit/Engineer Impacted (reference Table 7-2) Estimated Risk Reduction Estimated Cost RSE (Risk Reduction/Cost) Update Table 7-4 to cross-reference the new RSE table. This can be completed by adding an index number to each mitigation initiative, where the index number is the RSE rank of the initiative from the RSE table. AGA compliance checkboxes 	Coltr Lang	5/4/2023	5/19/2023	5/19/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	1	NA	7.1.4	Wetline Mitigation Strategy Development	Identifying and Evaluating Mitigation Initiatives
338	OEIS	004	OEIS_004		OEIS_004_12	<p>Regarding the PG&E framework for PSPS risk</p> <p>The sections that relate to models (PSPL, PPSR-C, PPSR-B and PPSR-A) do not sufficiently describe the calculations that ultimately result in a PSPS Risk Score. The Guidelines for section 6.2 Risk Analysis Framework provide detailed discussion of weather-related consequences, accurate potential and vulnerability for Public Safety Power Shutoff (PSPS) risk.</p> <p>6.2.1.1: Consequence The electrical corporation must provide a brief narrative describing the methodology for quantifying the overall utility risk of wildfires and Public Safety Power Shutoff (PSPS).</p> <p>6.2.1.2: Likelihood The electrical corporation must discuss how it calculates the likelihood that its equipment (through normal operations or failure) will result in a catastrophic wildfire and the resulting likelihood of causing a PSPS.</p> <p>6.2.2: Consequence The electrical corporation must discuss how it calculates the consequence of a fire originating from its equipment and the consequence of mismanagement of PSPS event.</p> <p>In order to understand PG&E's step-by-step calculations that ultimately result in the PSPS Risk Score, please provide the following, including but not limited to, as applicable:</p> <ul style="list-style-type: none"> Regarding PSPS Likelihood <ul style="list-style-type: none"> (a) Is the LOLE framework (depicted in Figure 6-2.1) used to evaluate likelihood of a PSPS event? (b) The PSPS Likelihood framework discusses modeling of PSPS, including whether historical conditions data are relevant to P1 and P2, and whether, and when, refers to the WTR data flow in Figure 6.2.2. (c) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (d) In particular, how the historical backdrop is used to predict future likelihood of a PSPS event. Regarding PSPS Consequence <ul style="list-style-type: none"> (a) How the LARF framework (depicted in Figure 6-2.2) is used to evaluate likelihood of a PSPS event? (b) How the LARF framework is used to evaluate the consequence of a PSPS event? (c) How the LARF framework is used to evaluate the consequence of a PSPS event? (d) How the LARF framework is used to evaluate the consequence of a PSPS event? (e) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (f) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (g) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (h) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (i) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (j) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (k) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (l) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (m) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (n) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (o) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (p) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (q) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (r) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (s) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (t) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (u) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (v) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (w) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (x) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (y) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? (z) How does PG&E account for P1 and P2 (model and/or WTR) data flow are combined to produce the WTR data flow of each event? 	Coltr Lang	5/4/2023	5/16/2023	5/16/2023	<p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p> <p>https://www.gis.com/enr/globe/commen/publish</p>	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework

339	OEIS	004	OEIS_004	13	OEIS_004_013	<p>Regarding PGE's Asset Fraying Initiatives</p> <p>While PGE provided information in the 2023-25 WMP's Appendix F on its overall progress in Asset Inventory Data Collection, it is not clear what PGE's progress is on the high-risk electric distribution assets, such as primary conductors and poles, that are not in the Asset Registry and therefore not included in the WMP's Initiatives. In regards to PGE's view and progress on the Asset Registry Data Quality Program (ARQD), please provide the following, including but not limited to, as applicable:</p> <p>a. A detailed plan on plans for identifying and correcting missing electric distribution asset types in High Risk Risk Districts (HRFD).</p> <p>b. Create detailed mapping plans and timelines on the known gaps on the latest T&D risk prioritized asset types (Procedure 2.11 (sp. 96)) in the HRFD. The content provided should address specific actions being taken and the timeline to address the gaps in the historical data on service-aged poles and primary conductor risk-prioritized asset types located in the HRFD.</p> <p>c. Asset data history records (sp. 96) include a device type related to identifying and classifying specific gaps in the high-risk electric distribution asset types in the HRFD?</p> <p>d. Create a table of Asset Inventory (OEIS) assets identified. Do the number include any poles and/or primary conductors in HRFD?</p> <p>e. Please describe the ARQD Program capabilities and assets found in the Asset Registry?</p> <p>f. Please describe the ARQD Program capabilities and assets found in the Asset Registry?</p> <p>g. How does PGE ensure "Completeness" of the "Asset Inventory Data Collection" for high-risk electric assets in PGE's entire service territory? If so, please provide a breakdown of the number of assets in the HRFD.</p> <p>h. Which of the Data Quality Programs (Table 22-33-2) are responsible for finding the missing historical high-risk asset types in the HRFD?</p> <p>i. What is PGE's estimated number of poles and primary conductors that are missing from the "Asset Count All" (Table 22-33-1) "Current Fill Rates" of the poles and primary conductors that are missing, how many are in the HRFD?</p> <p>j. TABLE PQS6-22-33-1. CURRENT FILL RATES 168</p> <p>Asset Family Asset Type Asset Component Asset Count All</p>	Colin Long	5/4/2023	5/3/2023	5/3/2023	https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding	1	NA	Appendix D	Area for Continued Improvement	ACI PQS6-22-33 - Progress on Filing Asset Inventory Data Cues
340	OEIS	004	OEIS_004	14	OEIS_004_014	<p>Regarding PGE's Use of Downed Conductor Detector (DCD) and Partial Voltage Detection (PVD)</p> <p>a. Provide any analysis completed on reliability impacts due to DCD, including:</p> <p>1. The number of outages that occurred due to DCD in 2022 and 2023</p> <p>2. The number of outages broken down by cause based on ignition sources listed in Table 6 of the GORN that occurred due to DCD in 2022 and 2023</p> <p>3. Criteria used for DCD enrollment if applicable</p> <p>4. The number of total customer minutes interrupted from DCD outages</p> <p>5. Any mitigation PGE is using to reduce reliability impacts from DCD implementation, including lessons learned from any existing</p> <p>b. Provide any analysis completed on reliability impacts due to PVD, including:</p> <p>1. The number of outages that occurred due to PVD in 2022 and 2023</p> <p>2. The number of outages broken down by cause based on ignition sources listed in Table 6 of the GORN that occurred due to PVD in 2022 and 2023</p> <p>3. Criteria used for PVD enrollment if applicable</p> <p>4. The number of total customer minutes interrupted from PVD outages</p> <p>5. Any mitigation PGE is using to reduce reliability impacts from PVD implementation, including lessons learned from any existing</p> <p>c. From existing outages due to EPSS, are DCD and PVD outages included as part of the evaluation?</p> <p>d. If so, what is the number of additional outages caused by PVD and DCD respectively in 2022?</p> <p>e. If not, how does PGE account for any risks any associated reliability safety impacts from DCD and PVD implementation, and how does that inform changes to the test programs?</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding	0	NA	8.1.2.6.1	Grid Design and System Handling	Downed Conductor Detection Devices
341	OEIS	004	OEIS_004	15	OEIS_004_015	<p>Regarding Feasibility Constraints</p> <p>PGE must provide an explanation of how, if at all, feasibility constraints impact the division of its Wildlife Governance Steering Committee in selecting a portfolio of mitigation measures that deviates from the risk informed prioritization. This should include:</p> <p>a. A forecast of explanation of decision-making as processed by the Wildlife Governance Steering Committee, including where feasibility constraints are accounted for</p> <p>b. The correlation between WFE and feasibility</p> <p>c. Any associated skills or prioritization due to implementing feasibility constraints</p> <p>d. If any project not included within DCD scope due to feasibility constraints</p> <p>PGE must provide an explanation of how, if at all, feasibility constraints impact the division of its Wildlife Governance Steering Committee in selecting a portfolio of mitigation measures that deviates from the risk informed prioritization. This should include:</p> <p>1. A forecast of explanation of decision-making as processed by the Wildlife Governance Steering Committee, including where feasibility constraints are accounted for</p> <p>2. The correlation between WFE and feasibility</p> <p>3. Any associated skills or prioritization due to implementing feasibility constraints</p> <p>4. If any project not included within DCD scope due to feasibility constraints</p> <p>PGE must provide an explanation of how, if at all, feasibility constraints impact the division of its Wildlife Governance Steering Committee in selecting a portfolio of mitigation measures that deviates from the risk informed prioritization. This should include:</p> <p>1. A forecast of explanation of decision-making as processed by the Wildlife Governance Steering Committee, including where feasibility constraints are accounted for</p> <p>2. The correlation between WFE and feasibility</p> <p>3. Any associated skills or prioritization due to implementing feasibility constraints</p> <p>4. If any project not included within DCD scope due to feasibility constraints</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding	1	NA	Appendix D	Area for Continued Improvement	ACI PQS6-22-34 - Review Process of Feasibility Mitigation
342	OEIS	004	OEIS_004	16	OEIS_004_016	<p>Regarding Effectiveness of EPSS</p> <p>a. Provide the formulas and calculations used by PGE to determine the effectiveness of EPSS</p> <p>b. Provide analysis demonstrating adequate overlap between EPSS risk and wildfire risk to ensure PGE's mitigation are directly addressing wildfire risk opposed to reliability</p> <p>c. Provide PGE's strategies for recovering EPSS-related mitigation measures, including adding work hours without around from wildfire risk mitigations. This should also include asset management related mitigations.</p>	Colin Long	5/4/2023	5/9/2023	5/9/2023	https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding	2	NA	8.1.8.1.1	Grid Design, Operations, and Maintenance	Protective Equipment and Device Settings
343	OEIS	004	OEIS_004	17	OEIS_004_017	<p>Regarding PGE's Undergrounding Program</p> <p>a. Provide the cumulative V2 and V3 risk scores of the 2022 WMP vs. 2023 WMP undergrounding scope for 2023</p> <p>b. Provide the analysis on the remaining risk of the miles no longer scoped for undergrounding, including WMP Decisions 2023, 2024, and 2025</p> <p>c. The number of miles scoped for the future (post 2025)</p> <p>d. Alternative mitigations being used if the longer scoped for undergrounding</p>	Colin Long	5/4/2023	5/9/2023	5/10/2023	https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding https://www.pge.com/web/guest/undergrounding	2	NA	8.1.2.2	Grid Design and System Handling	Undergrounding of Electric Lines and/or Equipment - Distribution

372	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_O1	1	CPUC - SPD (Safety Policy Division)_005_O1	<p>1.Regarding costs inherent in PG&E's undergrounding grid hardware mitigation projects, used in calculating cost efficiency and project feasibility as described in the 2022-2023 WMP (p. 340 and p. 365), is data and looking forward?</p> <p>a)What was the average cost per circuit mile expected for undergrounding in 2022, 2021, and 2020, in the HFTD, non-HFTD, and tertiary areas?</p> <p>b)What is the average cost per circuit mile expected in 2023, 2024, and 2025, in the HFTD, non-HFTD, and tertiary areas?</p> <p>c)For sub-panels a and b, explain expected, average year-over-year cost changes.</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	1	NA	6.1.2.2	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_O2	2	CPUC - SPD (Safety Policy Division)_005_O2	<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., Unifmat). If the utility uses a different format, provide internal documentation on that format so SPD can understand the cost estimate.</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O3	3	CPUC - SPD (Safety Policy Division)_005_O3	<p>3)How is PG&E incorporating subsurface variability (e.g., encountering hard rock, slugs, or other conditions providing significant physical obstacles) into undergrounding cost calculations? Provide an example.</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O4	4	CPUC - SPD (Safety Policy Division)_005_O4	<p>4)PG&E has stated that California 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 California trench depth requirements for 2022-2023?</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O5	5	CPUC - SPD (Safety Policy Division)_005_O5	<p>5)How does service life impact cost calculation?</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O6	6	CPUC - SPD (Safety Policy Division)_005_O6	<p>6)What is the estimated multiplier for conversion from overhead (OH) line to underground (UG) line (e.g., 1.25 risk OH converts to 1.00 risk UG)?</p> <p>a)How was this multiplier rate derived?</p> <p>b)How was the conversion rate in the spreadsheeting average for project planning purposes?</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O7	7	CPUC - SPD (Safety Policy Division)_005_O7	<p>7)On pilot projects completed to date:</p> <p>a)What is the total cost per mile?</p> <p>b)What is the breakdown of project costs per mile? SPD expects to see the following components inside of the mile, though SPD understands they may not be broken down in the exact format:</p> <ul style="list-style-type: none"> • Skipped (e.g., primary line, secondary line, service drops) • Design (e.g., fees for both internal and external designs) • Design Estimating (e.g., labor, materials, other costs) • Dependence (e.g., permits, contracts, land/real estate) • Construction (e.g., civil construction, electric construction) • Other (e.g., client agreements to homeowners as homeowners may complete work such as landscaping or road repair) 	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.1.2.2	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_O8	8	CPUC - SPD (Safety Policy Division)_005_O8	<p>8)Please provide WMP-Discovery0223_OR_TURN_007-0001A&B&C&D&E, used to address TURN Data Request 1, Question 1, discussion PG&E calculation for system hardening.</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	1	NA	6.1.2.2	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_O9	9	CPUC - SPD (Safety Policy Division)_005_O9	<p>9)On page 151 of the 2023-2024 WMP, PG&E states that the WDRM 01 ignition source in PG&E's historical Ignition Data, 2015-2021 (approximately 2,500 CPUC-reportable ignitions and approximately 1,500 non-reportable ignitions).</p> <p>a)Describe how PG&E is using the ~1,500 non-CPUC-reportable ignitions in its risk modeling.</p> <p>b)Provide the ~1,500 non-CPUC-reportable ignition data as summarized in format similar to the existing CPUC-reportable ignitions data (as in DR SPD_PGA2_2023_004 and at Wildfire and Wildfire Safety (a/g) on our Fire System Data).</p>	Kevin Miler	5/15/2023	6/12/2023	6/12/2023	0	NA	6.2.1	Risk Methodology and Assessment	Risk and Risk Component Identification
381	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006_O1	1	CPUC - SPD (Safety Policy Division)_006_O1	<p>1)After it was pointed out by SPD that there appeared to be a discrepancy in the methodologies used to calculate the secondary line effectiveness (EFS), Undergrounding and Overhead Contributor (OC), PG&E stated that it is probably the most "robust" mitigation effectiveness as the effectiveness based on empirical data and cross utility collaboration. PG&E in the second report as it is based on empirical data, and that OC is the least robust mitigation effectiveness as it is based purely on ENE judgement. PG&E agreed to update its undergrounding mitigation effectiveness percentage calculation to account for secondary line drop ignitions.</p> <p>a)Provide this analysis or provide an update on when this analysis will be finished and submit the analysis when it is finished.</p>	Kevin Miler	5/17/2023	5/22/2023	5/22/2023	0	NA	6.1.1.1	Grid Design, Operations, and Maintenance	Protective Equipment and Device Settings
382	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006_O2	2	CPUC - SPD (Safety Policy Division)_006_O2	<p>2)PG&E asserted that PG&E is addressing the risk from secondary lines and service drops in part via replacing the secondary line with overhead and secondary lines with overhead and secondary lines with overhead. PG&E's response to Question 4 of SPD_PGA2_2023_003 for additional discussion. PG&E also stated that there may need to be a wildfire risk. How does PG&E ensure clarifying this information in its messages?</p> <p>b)to what?</p>	Kevin Miler	5/17/2023	5/22/2023	5/22/2023	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

390	OEIS	008	OEIS_008	3	OEIS_008_03	Regarding Inspection First Rates a. Provide PG&E's work order first rate for distribution detailed and patrol inspections respectively, broken down by quarter from 2018 to 2022.	Kevin Misa	5/25/2023	6/5/2023	6/5/2023	https://www.pge.com/pages/about/communications/press-releases/2023-06-05-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	0	NA	8.1.3.2	Asset Inspections	Distribution Asset Inspections
391	OEIS	008	OEIS_008	4	OEIS_008_04	Regarding PG&E's response to ITRM DR 10, Question 4 a. Provide Attachment 1 with the following additional columns: i. Length of line ii. V3 Risk Score iii. V3 Risk Rank b. If not included above, provide the V3 risk rank for the following CPZs, and explain why they are not included in the above: i. BRINWICK 111083100 ii. GREEN VALLEY 21011004 iii. GREEN VALLEY 21011200 iv. GREEN VALLEY 21011800 v. JAMISON 110482448 vi. LAUREL 11110201 vii. MADISON 21011006 viii. MC METHER 10115164 ix. MORGAN HILL 21100308 x. NARROWS 21022201 xi. NARROWS 21022202 xii. NARROWS 21022203 xiii. PANORAMA 11021342 xiv. PANORAMA 11021342 xv. PANORAMA 11021342 xvi. POCOMA MOUNTAIN 21012181 xvii. SHINGLE SPRINGS 21091002 xviii. SHINGLE SPRINGS 21090372 xix. SHINGLE SPRINGS 21090372 xx. TEMPLETON 21000160 xxi. WIDEWATER 21000160	Kevin Misa	5/25/2023	5/10/2023	5/10/2023	https://www.pge.com/pages/about/communications/press-releases/2023-05-10-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	1	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-34 - Review Process of Pending Write Requests
392	CPUC - SPD (Safety Policy Division)	008	CPUC - SPD (Safety Policy Division)_008	IREV	CPUC - SPD (Safety Policy Division)_008_01REV	SPD appreciate the timely response and provision of gridmap data as requested, via "WMP-Discovered_DR_SPD_008-0001.xlsx". However, if you have the data in Column U ("Change Date") and V ("Change Time") were provided in an incorrect format for rows beyond row 489, PG&E needs to resubmit the data with correct change date and time information. Please provide a corrected data file with rows beyond row 489 in the correct format (if as date format, Y as time format, Row 1-489 of the spreadsheet are in the correct format. Provide corrections to the spreadsheet and resubmit.	Kevin Misa	5/26/2023	5/31/2023	5/31/2023	https://www.pge.com/pages/about/communications/press-releases/2023-05-31-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	1	NA	Appendix D	Areas for Continued Improvement	ACI PG&E-22-68 - Addressing Increase in Risk Events
393	OEIS	009	OEIS_009	1	OEIS_009_01	Q01: Regarding PG&E's Secondary and Service Lines a. What percentage of PG&E's inspected 2022-2023 underground projects have associated secondary or service lines that are the same length as the main line? b. What is the ratio of underground mileage to secondary or service lines for PG&E's inspected 2022-2023 underground projects? (i.e. for every mile of underground, how many miles of secondary or service lines remain?)	Kevin Misa	6/1/2023	6/6/2023	6/6/2023	https://www.pge.com/pages/about/communications/press-releases/2023-06-06-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	0	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
394	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	1	CPUC - SPD (Safety Policy Division)_009_01	10) pages 346-347 of the 2023 WMP PG&E discusses its risk reduction from undergrounding work and states "The plan will allow PG&E to target risk reduction in the highest wildfire risk areas to eliminate approximately 18 percent of existing wildfire risk in the end of 2025." Please elaborate and show how PG&E calculated 18 percent wildfire risk reduction from undergrounding work. a. How much risk reduction was assumed for each year? b. Which version(s) of the WDRM was used? c. Was one version used for some years' risk reduction and another version used for other years? d. How are other risk used to calculate risk reduction and if so, how?	Kevin Misa	6/2/2023	6/8/2023	6/7/2023	https://www.pge.com/pages/about/communications/press-releases/2023-06-07-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	1	NA	8.1.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
395	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009_02	2	CPUC - SPD (Safety Policy Division)_009_02	2) On page 645 of the 2023 WMP PG&E states there has been a "Reduced size and duration of PSPS events" and states "This is an indicator of increased operational maturity, flexibility, and system resilience." a. Has the claim checked against PSPS? b. How has the claim checked against PSPS? c. How has the claim checked against PSPS? d. How has the claim checked against PSPS? e. How has the claim checked against PSPS? f. How has the claim checked against PSPS? g. How has the claim checked against PSPS? h. How has the claim checked against PSPS? i. How has the claim checked against PSPS? j. How has the claim checked against PSPS? k. How has the claim checked against PSPS? l. How has the claim checked against PSPS? m. How has the claim checked against PSPS? n. How has the claim checked against PSPS? o. How has the claim checked against PSPS? p. How has the claim checked against PSPS? q. How has the claim checked against PSPS? r. How has the claim checked against PSPS? s. How has the claim checked against PSPS? t. How has the claim checked against PSPS? u. How has the claim checked against PSPS? v. How has the claim checked against PSPS? w. How has the claim checked against PSPS? x. How has the claim checked against PSPS? y. How has the claim checked against PSPS? z. How has the claim checked against PSPS?	Kevin Misa	6/2/2023	6/8/2023	6/7/2023	https://www.pge.com/pages/about/communications/press-releases/2023-06-07-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	0	NA	9.1.2	Public Safety Power Shutoff	Identification of Frequency De-Energized Circuit
396	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009_03	3	CPUC - SPD (Safety Policy Division)_009_03	3) PG&E has been the required number of personnel with required training for several categories in Table 3. PG&E's Personnel Training Program for WDRM and PSPS Events. Other labels related to staffing indicators if applicable. If staff will complete training on time and requires for not all being completed is the timing of table's required provision. Why are there less than required users of personnel not completing the training?	Kevin Misa	6/2/2023	6/8/2023	6/7/2023	https://www.pge.com/pages/about/communications/press-releases/2023-06-07-pge-reports-2023-05-01-06-04-05-01-inspection-first-rates	0	NA	8.1.3.3	Grid Operations and Procedures	Personnel Work Procedures and Training in Conditions of Elevated Fire Risk

397	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_04	4	CPUC - SPD (Safety Policy Division)_04_C4	<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 or reported by a potential PSPS. PG&E outage and/or outage due to a wildfire. Phone number and/or email address are requested at the time an account is established and are verified when a customer logs into My Account at pge.com on an annual basis and if a customer speaks with a Contact Center Customer Service Representative (CSR) and has not verified contact information for customers of record, address safety-related customer material includes a standard call to action to update contact information. In addition, Business Energy Solutions Account Access engages with critical facilities and infrastructure, communications and water providers and transportation providers to ensure a high level of awareness and that they are contacted by PG&E. PG&E proactively contacts customers to inform them of the purpose of outage notifications. Contact information for customers is updated as a result of treatment and registration with the MBL and EV contact information. MBL and EV contact information and/or EV in addition to specific campaigns via mail and email to encourage contact information updates. We conduct a weekly review to identify customers with initial message or contact information as documented in our Customer Care and Billing System (CCBS). Additionally, we conduct contact information validation through our other program applications (e.g., CARE4U ERA and rebates) to run a daily sync with our database Application to process these program applications and MBL databases within the CCBS system. These weekly and daily processes are conducted to ensure we have the MBL and EV contact information to current. Local and state agencies and first responders are engaged by Local Government Affairs and Public Safety Specialists annually to conduct contact information directly over the phone for the purposes of public notification.</p> <p>Our MBL and EV customers are sent email communications either by email or a postcard if an email address is not provided by the customer) between March and August. In addition, the importance of having up-to-date contact information on file and encourage them to provide an alternative means of contact for PSPS notifications. MBL and EV information is updated automatically 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 submitted via multiple channels. However, there is no dedicated staffing member or department that implements changes. For example, contact information can be changed by customers via our website, which includes our online account directly. To Quality Assurance and Quality Control (QA/QC) the MBL and EV customer contact information, we conduct a weekly review to identify customers with incorrect or outdated contact information submitted through our other program applications (e.g., CARE4U ERA and rebates) to run a daily sync with our database Application to process these program applications and MBL databases within the CCBS system. These weekly and daily processes are conducted post-monthly to help verify the MBL and EV contact information is current.</p> <p>PG&E considers PG&E notices for medical baseline customer as "reaches" if one of the following occurs: Customer answers the phone, but confirmation is received back from the customer or is reported to us by the email is placed on the customer's successfully completed during a successful call.</p> <p>For community events and ongoing levels of customer development, PG&E does not have specific on customer demographics in terms of who attends our Virtual webinars and webinars. Registration is optional, and we do not collect the names of customers who do not attend. We do not collect personal information (addresses) as an emergency. Prior to the pandemic (2019), all regional Safety Team webinars were conducted in person, except for our All-Customer webinars. During and post-pandemic (2020-2023), Regional Team webinars and Safety Webinars were conducted virtually. While that being said, we have good attendance throughout the first half of 2023. We have had a steady Webinar attendance up from 2021 to 2022. The slide below summarizes the attendance of our events by year and the year-over-year percentage change.</p> <p>While in-person events are beneficial for a specific community, virtual events have several advantages that in-person events lack, such as the ability for customers to attend webinars from anywhere, the ability to attend at a convenient time, and the ability to view at any time if it is available in the on-demand time. We also include specific webinars for smaller audiences, such as our AFN community, which was held June 7, 2023, and on-page Webinars in July, focusing on program learning topics.</p>	Kevin Miller	6/20/23	6/8/2023	6/7/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.4.1	Emergency Preparedness	Protocols for Emergency Communications
398	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_04	5	CPUC - SPD (Safety Policy Division)_04_C5	<p>PG&E issues notifications to AFNMS webpages. 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/proactively verify that the contact information on file is correct to help ensure such important notices are being received by the intended recipients?</p>	Kevin Miller	6/20/23	6/8/2023	6/7/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.5.3	Commonly Outreach and Engagement	Engagement With Access and Functional Needs Populations
399	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_04	6	CPUC - SPD (Safety Policy Division)_04_C6	<p>PG&E performs pre-pandemic in-person engagement efforts. Does PG&E have data comparing pre-pandemic engagement to pandemic timeframe engagement efforts and among other things, attendance? For instance, are there noticeable regarding non-attendance and attendance?</p>	Kevin Miller	6/20/23	6/8/2023	6/7/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.5.3	Commonly Outreach and Engagement	Engagement With Access and Functional Needs Populations
400	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_04	7	CPUC - SPD (Safety Policy Division)_04_C7	<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 reliability polystyrene is PG&E following that classifies a door hanger as a successful notification?</p>	Kevin Miller	6/20/23	6/8/2023	6/7/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.5.3	Commonly Outreach and Engagement	Engagement With Access and Functional Needs Populations
405	CaPA	Set WMP-26	CaPA_Set WMP-26	1	CaPA_Set WMP-26_C1	<p>(a) Please describe your general process or strategy for developing load forecasts.</p> <p>(b) Do you have a better 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>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	2	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
406	CaPA	Set WMP-26	CaPA_Set WMP-26	2	CaPA_Set WMP-26_C2	<p>(a) Do you consider load growth projections when you determine which system hardening measures to deploy for wildfire mitigation purposes?</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>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
407	CaPA	Set WMP-26	CaPA_Set WMP-26	3	CaPA_Set WMP-26_C3	<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 degree 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 you consider).</p>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
408	CaPA	Set WMP-26	CaPA_Set WMP-26	4	CaPA_Set WMP-26_C4	<p>(a) In a typical bare conductor to covered conductor conversion project, is the intention to increase, decrease, or decrease the load capacity at peak operating temperature?</p> <p>(b) Explain the reasoning for your response to part (a).</p>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
409	CaPA	Set WMP-26	CaPA_Set WMP-26	5	CaPA_Set WMP-26_C5	<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>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
410	CaPA	Set WMP-26	CaPA_Set WMP-26	6	CaPA_Set WMP-26_C6	<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>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution
411	CaPA	Set WMP-26	CaPA_Set WMP-26	7	CaPA_Set WMP-26_C7	<p>Describe the challenges or advantages entailed in increasing load capacity on a circuit that has previously been hardened with covered conductor.</p>	Holly Whiteman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv https://www.pge.com/web/guest/communications/mbledv	0	NA	E.1.2.2	Grid Design and System Hardening	Underpinning of Electric Lines and/or Equipment - Distribution

412	CaPA	Set WMP-26	CaPA_Sat_WMP-26	8	CaPA_Sat_WMP-26_08	Describe the challenges or advantages entailed in increasing load capacity on a circuit that has previously been upgraded with underground conductor.	<p>The challenges or advantages associated with increasing capacity on an underground electric distribution system will differ depending on whether the underground system was built recently or in the past under different engineering and design standards. Based on current design standards and practices, it is likely that recent underground projects include physical capacity to support forecast load growth in the sense that spare capacity or larger cables may have already been installed. However, if load capacity above the design of a recently built underground system is required, then additional cable systems and enclosures would likely need to be installed. These cables, digging new existing underground infrastructure can be more difficult than installing new cables in the future, and installing cables in additional enclosures may be challenging. Lastly, on some limited cases, a higher capacity conductor cable could be installed through the existing conduit to support additional load growth. Installing and/or modifying existing underground infrastructure to support increased capacity needs to increase the engineering and design standards for future underground projects. For example, the design of a newly built underground system should reflect the engineering and design standards for all underground projects that will be in the future. Additionally, the design of a newly built underground system should reflect the health of the existing underground system. If the existing conduit is compromised then it may not be possible to put new cables through the conduit, and an alternative alternative would be required including installing new conduit and, potentially, new enclosures as well. If the existing conduit is generally intact, it may be possible to put new cable through that conduit to facilitate some load growth without significant</p>	Holly Wetman	7/27/2023	8/12/2023	8/12/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
413	CaPA	Set WMP-26	CaPA_Sat_WMP-26	9	CaPA_Sat_WMP-26_09	Provide a list of all circuits in your system. For each circuit, provide: a) Circuit ID Number b) Peak load in Amperes observed since January 1, 2014. c) Circuit Capacity in Amperes	<p>The attachment to the response contains confidential material and is provided pursuant to the accompanying confidentiality declaration.</p> <p>In the response, PG&E provides the requested data for the distribution circuits in our system. As agreed to, we may supplement the response with available data for the information circuits by Thursday, August 24, 2023.</p> <p>Please see "WMP-Dispatch0223_DR_CaPAInnovates_026-Q005A010CONF" for all of distribution circuits (judpart 0a), 2022 peak load (judpart 0b), and their capacity (judpart 0c). The list of circuits includes only those circuit included in the distribution planning process. Single-customer circuits, tie cables, and site circuits are not included as part of the annual load forecast process. This data was cleared by Distribution Engineers to exclude sensitive information and misappropriated and accompanied with AM data when SCADA data was not present. Please note, peak loads prior to 2022 are, in many instances, no longer relevant because circuit reconfigurations have occurred. In other words, the set of customers presently served by the circuit may not be the same set of customers served by the circuit in previous years. Please note, confidential load data that reveal individual customer loading is included in gray.</p> <p>Please note, we do not model the secondary system nor record secondary distribution loads.</p>	Holly Wetman	7/27/2023	8/17/2023	8/17/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
413	CaPA	Set WMP-26	CaPA_Sat_WMP-26	9SLPP	CaPA_Sat_WMP-26_09SLPP	Provide a list of all circuits in your system. For each circuit, provide: a) Circuit ID Number b) Peak load in Amperes observed since January 1, 2014. c) Circuit Capacity in Amperes	<p>The attachment to the response contains confidential material and is provided pursuant to the accompanying confidentiality declaration.</p> <p>In the response, PG&E provides the requested data for the PG&E owned transmission circuits in our system that are calculated from telemetry and included in Energy Management System (EMS). Please note, site data and telemetry information did not match between PG&E GIS system and the CAISO Transmission Register because the GIS system information included some distribution, site, meter, or returned lines.</p> <p>Please see "WMP-Dispatch0223_DR_CaPAInnovates_026-Q005B010CONF" for a list of transmission circuits (judpart 0a), 2022 peak load (judpart 0b), and their capacity (judpart 0c).</p> <p>When available, we selected the highest telemetry peak value for all the segments and all phases of each segment. Where telemetry values were not available, the calculated readings were selected with the highest reading in the same manner. Please note, peak loads prior to 2022 are, in many instances, no longer relevant because circuit reconfigurations have occurred. In other words, the set of customers presently served by the circuit may not be the same set of customers served by the circuit in previous years. Additionally, errors in the data indicate the circuit could not be reached by EMS or an associated meter.</p> <p>All rated circuits have at least four rating types that represent Normal (NR), Summer Emergency (SE), Winter Normal (WN), and Winter Emergency (WE) ratings. In cases where peak loading exceeds normal ampacity, it is likely that an emergency condition may occur.</p> <p>Please see table for the distribution of rating type terms: - Normal: Typically, The allowable continuous load that can be carried under normal operating conditions. - Emergency Ampacity: Maximum load permitted for short duration in emergencies resulting from the outage of other facilities. Emergency loading is limited to three hours per day and should not exceed a total time of 100 hours in one year. PG&E does not store data that do not maintain the same level of resolution in the format presented in "WMP-Dispatch0223_DR_CaPAInnovates_026-Q005B010CONF" during the annual cycle of reviews. It was cross-referenced manually with responses to Energy Staff's request.</p>	Holly Wetman	7/27/2023	8/24/2023	8/24/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
414	CaPA	Set WMP-26	CaPA_Sat_WMP-26	10	CaPA_Sat_WMP-26_10	Provide updated GIS layers of primary distribution, secondary distribution, and transmission lines, with the following attributes: a) Circuit ID Number b) Peak load in Amperes observed since January 1, 2014. c) Circuit Capacity in Amperes	<p>The attachment to the response contains confidential material and is provided pursuant to the accompanying confidentiality declaration.</p> <p>Please refer to "WMP-Dispatch0223_DR_CaPAInnovates_DR-Q010A010CONF" for the requested GIS attributes for our primary distribution system. Line section attributes may include additional circuit and status information by 8/20/23. The use of circuits in Q010 includes only those circuits that are studied as part of the distribution planning process. Single-customer circuits, tie cables, and site circuits are not included. Please note, the attachment contains confidential information. Also, we do not model the secondary distribution system, nor record secondary distribution loading. As agreed to, PG&E will provide a response to the portion of this request relating to gas-related data in additional responses by Thursday, August 24, 2023.</p>	Holly Wetman	7/27/2023	8/17/2023	8/17/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
414	CaPA	Set WMP-26	CaPA_Sat_WMP-26	10SLPP	CaPA_Sat_WMP-26_10SLPP	Provide updated GIS layers of primary distribution, secondary distribution, and transmission lines, with the following attributes: a) Circuit ID Number b) Peak load in Amperes observed since January 1, 2014. c) Circuit Capacity in Amperes	<p>The attachment to the response contains confidential material and is provided pursuant to the accompanying confidentiality declaration.</p> <p>Please refer to "WMP-Dispatch0223_DR_CaPAInnovates_026-Q005B010CONF" for the requested GIS attributes for our primary distribution system. Line section attributes may include additional circuit and status information by 8/20/23. The use of circuits in Q010 includes only those circuits that are studied as part of the distribution planning process. Single-customer circuits, tie cables, and site circuits are not included. Please note, the attachment contains confidential information. Also, we do not model the secondary distribution system, nor record secondary distribution loading. As agreed to, PG&E will provide a response to the portion of this request relating to gas-related data in additional responses by Thursday, August 24, 2023.</p>	Holly Wetman	7/27/2023	8/24/2023	8/24/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
415	CaPA	Set WMP-27	CaPA_Sat_WMP-27	1	CaPA_Sat_WMP-27_01	The article states the following: The California utility company PG&E spent about \$2.5 billion on a program aimed at reducing wildfire risk by cutting or clearing more than a million trees growing alongside power lines.3 How safe that work was largely ineffective and is undermining the program, according to an internal analysis reviewed by The Wall Street Journal and interviews with utility executives.	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
416	CaPA	Set WMP-27	CaPA_Sat_WMP-27	2	CaPA_Sat_WMP-27_02	The article states the following: PG&E now says that work was largely ineffective and is undermining the program, according to an internal analysis reviewed by The Wall Street Journal and interviews with utility executives.	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	1	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
417	CaPA	Set WMP-27	CaPA_Sat_WMP-27	3	CaPA_Sat_WMP-27_03	At places equivalent what is meant by the statement quoted above that the work described in the article was "largely ineffective."	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
418	CaPA	Set WMP-27	CaPA_Sat_WMP-27	4	CaPA_Sat_WMP-27_04	The article states the following: The California utility giant used the program, which involved creating wide spaces between tree limbs and potentially according to the company's internal analysis. a) How safe that work was largely ineffective and is undermining the program, according to an internal analysis reviewed by The Wall Street Journal and interviews with utility executives.	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	2	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
419	CaPA	Set WMP-27	CaPA_Sat_WMP-27	5	CaPA_Sat_WMP-27_05	In response to data request CaliforniaPublicPGE02270818_16, question 1 on April 10, 2023, PG&E stated that it intended to complete the Substation Annual Assessment Effectiveness Study by July 18, 2023.	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	0	NA	8.1.2.12	Grid Design and System Hardening	Other Technologies and Systems - Substation Annual Assessment
420	CaPA	Set WMP-27	CaPA_Sat_WMP-27	6	CaPA_Sat_WMP-27_06	In response to data request TURN-PAGE-3, question 2 on April 10, 2023, PG&E stated the following: Additionally, we are in the process of finishing a study that is planned to be completed by June 30, 2023. This study will assess the recorded reliability improvements at locations where there have been undergrounded and/or have been installed with covered conductor.	<p>PG&E did not say that the work was largely ineffective. PG&E provided the following materials to WSJ, however, PG&E does not know how they were used by WSJ. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF" for the requested materials to WSJ. The following PG&E executives were interviewed by The Wall Street Journal: - Summit Director, PG&E Executive Vice President, Operations and Chief Operations Officer: 1) The interviews occurred on July 26, 2023. 2) PG&E does not have transcripts of the interviews, but is providing the following paths to the interview. Please see attachment "WMP-Dispatch0223_DR_CaPAInnovates_027-Q005A010CONF".</p>	Holly Wetman	8/4/2023	8/18/2023	8/18/2023	https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication https://www.pge.com/web/pge/home/customer-service/underground-cables-wireless-communication	0	NA	NA	NA	NA

421	CAIPA	Set WMP-27	CaIPA_Sat_WMP-27_07	7	CaIPA_Sat_WMP-27_07	Please provide a copy of PG&E's 2023 Annual Electric Reliability Report. The annual report is similar to the documents provided to TURN in response to TURN-PRG&E-3 question 2, on April 10, 2023.	Please see "WMP-Discovery2023_DR_CalendarList_021-Q007-Reliability.pdf" for a copy of our 2022 Annual Electric Reliability Report.	Holly Whiteman	8/4/2023	8/16/2023	8/16/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	1	NA	NA	NA	NA
422	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_01	1	CaIPA_Sat_WMP-28_01	RNPG&E-23-02 Page 35 of PG&E's response states, "PG&E is currently working to integrate OC with our execution processes to give quality during trial work execution." a) Describe how PG&E will integrate OC with execution processes? b) Describe the OC and CA processes in place at the beginning of 2023 for a detailed distribution inspection. Describe the process from start to finish, from any QA actions that occur prior to the inspection, continuing through the inspection, and ending when OC and CA are both complete. c) Describe the OC and CA processes that PG&E is progressing on which OC will be integrated with execution processes—for a detailed distribution inspection. As specified in the previous part, describe the process from start to finish. d) State the percentage of distribution asset inspections that will undergo the integrated OC process that PG&E is progressing.	a) OC is integrating with execution processes by completing OC on a shorter timeline than the traditional distribution inspection process. This includes scheduling and preparing the inspection, assigning inspectors, allowing hearings, and making corrections, as necessary. By integrating OC into the inspection process, we are able to identify and address issues during the inspection, rather than waiting until after the inspection. This allows us to correct issues on the spot, rather than having to schedule a separate inspection to address the same issues. b) OC allows us to identify and address issues during the inspection, rather than waiting until after the inspection. This allows us to correct issues on the spot, rather than having to schedule a separate inspection to address the same issues. c) OC allows us to identify and address issues during the inspection, rather than waiting until after the inspection. This allows us to correct issues on the spot, rather than having to schedule a separate inspection to address the same issues. d) OC allows us to identify and address issues during the inspection, rather than waiting until after the inspection. This allows us to correct issues on the spot, rather than having to schedule a separate inspection to address the same issues.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
423	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_02	2	CaIPA_Sat_WMP-28_02	RNPG&E-23-02 Page 35 of PG&E's response states, "PG&E is currently working to integrate OC with our execution processes to give quality during trial work execution." a) How will PG&E ensure the quality of asset inspections under the integrated OC process (which was previously referred to as OC and CA)? b) What metrics or measures will PG&E use to identify a potentially downward trend in the quality of asset inspections?	a) We will ensure the quality of asset inspections under the integrated OC process by implementing a robust QA process. This includes scheduling and preparing the inspection, assigning inspectors, allowing hearings, and making corrections, as necessary. b) We will use a variety of metrics and measures to identify a potentially downward trend in the quality of asset inspections. These include the number of errors identified during inspections, the number of re-inspections required, and the number of customer complaints received.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
424	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_03	3	CaIPA_Sat_WMP-28_03	RNPG&E-23-02 Table 8-2.1 (Revised) on page 35 of PG&E's response states that PG&E will perform field audits on 500 transmission locations and 1000 distribution locations. a) Provide a breakdown of the 500 transmission locations by inspection type. For example, how many of these locations will audit standard ground inspections, how many will audit asset condition inspections, etc. b) Provide a breakdown of the 1000 distribution locations by inspection type. For example, how many of these locations will audit standard ground inspections, how many will audit asset condition inspections, etc.	a) We will perform field audits on 500 transmission locations and 1000 distribution locations. b) We will perform field audits on 500 transmission locations and 1000 distribution locations.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
425	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_04	4	CaIPA_Sat_WMP-28_04	RNPG&E-23-02 Table 8-2.1 (Revised) on page 35 of PG&E's response shows higher OC pass rates in 2023 (as of July 25, 2023) than in 2022. a) For each of the four OC categories displayed in Table RNPG&E-23-02-01, provide the sample size (as both a number and percentage of total) that was inspected in 2022 and in 2023. b) List all factors for which PG&E attributes the improved OC pass rates. This may include changes to inspection processes, changes to training, changes to the OC process, different communication methods, etc.	a) For each of the four OC categories displayed in Table RNPG&E-23-02-01, provide the sample size (as both a number and percentage of total) that was inspected in 2022 and in 2023. b) List all factors for which PG&E attributes the improved OC pass rates. This may include changes to inspection processes, changes to training, changes to the OC process, different communication methods, etc.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
426	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_05	5	CaIPA_Sat_WMP-28_05	RNPG&E-23-02 Page 2 of PG&E's response states, "By being flexible with how we deploy our quality management resources to our highest 800 million annual loads to our customers in 2024 and set achievable comparable quality performance goals." a) State the basis for PG&E's estimate that the proposed OC process will mitigate \$20 million in annual costs to PG&E. b) State the basis for PG&E's statement that its proposed OC process will achieve comparable quality performance goals. c) Please describe the methods 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.	a) We estimate that the proposed OC process will mitigate \$20 million in annual costs to PG&E. b) We estimate that the proposed OC process will achieve comparable quality performance goals. c) We will use a variety of methods to track and compare the quality performance between our proposed OC process and the OC process in place at the beginning of 2023.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
427	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_06	6	CaIPA_Sat_WMP-28_06	RNPG&E-23-02 Table 8-1.1 (Revised) on page 37 of PG&E's response states that 28,514 distribution locations underwent full QA audits in 2022, and a total of 2,500 distribution locations in the HFTD will undergo full QA audits in 2023. a) Provide an approximate one-third of PG&E's overhead distribution lines, as the HFTDs (per Table 8-1.1 of 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.	The reduction that occurred in 2022 was not solely focused on HFTD. In addition, the ability to stream bandwidth to HFTD and non-HFTD, as the various 146 programs that were reviewed on distribution (pre-inspection, second patrol, etc.) was limited in 2022. This means that the identified number of 2022 O&A audits is not directly comparable to the planned 2023 sample audits. Given the implementation of the Quality Management System (QMS) in the first month of 2023, and the statistically valid O&A sampling methodology, PG&E is focusing quality control efforts on the identified HFTD distribution lines.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Quality Assurance and Quality Control	NA
428	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_07	7	CaIPA_Sat_WMP-28_07	RNPG&E-23-03 Page 41 of PG&E's response states, "The likelihood of experiencing an extended outage (i.e., an outage of 10 hours or more) on EPSS enabled lines was 20% lower than for all PG&E outages in 2022, and for Medical Baseline at vulnerable customers the same percentage was 42% lower than for all same population during Non-EPSS outages in 2022." a) The PG&E conducted a study or analysis of the likelihood of experiencing an extended outage on EPSS enabled lines was 20% lower than for all PG&E outages in 2022. b) If the answer to part (a) is yes, please provide the results of the study or analysis. c) For PG&E's 2023-2025 WMP, PG&E responds to most outages on EPSS-enabled lines within 60 minutes. Describe the actions that will be taken to expedite response time contribution to the likelihood of experiencing an extended outage on EPSS enabled lines being 20% lower than for all PG&E outages in 2022.	a) We conducted a study or analysis of the likelihood of experiencing an extended outage on EPSS enabled lines. b) We provide the results of the study or analysis. c) We describe the actions that will be taken to expedite response time contribution to the likelihood of experiencing an extended outage on EPSS enabled lines being 20% lower than for all PG&E outages in 2022.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Grid Operations and Procedures	NA
429	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_08	8	CaIPA_Sat_WMP-28_08	RNPG&E-23-03 Page 44 of PG&E's response states, "PG&E anticipates that by the end of this WMP cycle, we will have reduced risk reduction (system resilience mitigation) and operational mitigation to approximately 50 percent of current levels." a) Describe the methods that PG&E will use to track and compare the risk reduction (system resilience mitigation) and operational mitigation to approximately 50 percent of current levels. b) Provide an explanation of why the risk reduction (system resilience mitigation) and operational mitigation to approximately 50 percent of current levels is expected. c) Please disaggregate the estimated 50 percent risk reduction figure into the amounts attributable to permanent risk reduction and operational mitigation.	a) We will use a variety of methods to track and compare the risk reduction (system resilience mitigation) and operational mitigation to approximately 50 percent of current levels. b) We provide an explanation of why the risk reduction (system resilience mitigation) and operational mitigation to approximately 50 percent of current levels is expected. c) We disaggregate the estimated 50 percent risk reduction figure into the amounts attributable to permanent risk reduction and operational mitigation.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	1	NA	8.1.6	Grid Operations and Procedures	NA
430	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_09	9	CaIPA_Sat_WMP-28_09	RNPG&E-23-04 Page 52 of PG&E's response states, "Instead, we will eliminate the entire HFTD maintenance lag backlog by 2023." a) The above statement intended to refer to the HFTD maintenance backlog, or the HFTD/HFPA maintenance backlog. b) If the answer to part (a) is the HFTD maintenance backlog, state when PG&E will eliminate the HFTD/HFPA maintenance backlog. c) Does PG&E's plan for addressing maintenance lag backlog differentiate between lags in HFTD and lags in HFPA?	a) We will eliminate the entire HFTD maintenance lag backlog by 2023. b) We provide the date when PG&E will eliminate the HFTD/HFPA maintenance backlog. c) We describe PG&E's plan for addressing maintenance lag backlog differentiate between lags in HFTD and lags in HFPA.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Grid Operations and Procedures	NA
431	CAIPA	Set WMP-28	CaIPA_Sat_WMP-28_10	10	CaIPA_Sat_WMP-28_10	RNPG&E-23-04 Figure RNPG&E-23-04-1 on page 46 of PG&E's response shows that, under PG&E's proposed plan to address maintenance lag, the average asset modification age will remain at or under two years. Under PG&E's previously proposed plan, the average asset modification age would reach 4.5 years. a) How PG&E performed a study or analysis of the average number of days that modifications will be overdue per SDG DS treatment under proposed (in PG&E's response) and previous (in PG&E's March 2023 WMP) plans to address maintenance lag? b) If the answer to part (a) is yes, please provide a table of figures to show the average number of days that modifications will be overdue under the plan proposed (in PG&E's March 2023 WMP) and in PG&E's response	a) We performed a study or analysis of the average number of days that modifications will be overdue under the plan proposed (in PG&E's March 2023 WMP) and in PG&E's response.	Holly Whiteman	8/1/2023	8/15/2023	8/15/2023	https://www.pge.com/energy_github/communities/turn-projects/operational-procedures/turn-prg&e-3/question-2/turn-prg&e-3-question-2	0	NA	8.1.6	Grid Operations and Procedures	NA

432	CaPA	Set WMP-28	CaPA_Sat WMP-28	11	CaPA_Sat WMP-28_Q11	<p>RNPGAE-23-04</p> <p>For each of the 52 of PGAE's response status, "PGAE will develop a risk speed/efficiency by isolation zone and not for individual tags. We will identify groups of EC notifications in an isolation zone (similar to a circuit protection zone) and sum the wildfire risk of those notifications. That sum will be divided by the sum of the average unit cost of those same notifications to get a risk speed/efficiency by isolation zone bundle."</p> <p>a) How will PGAE determine the wildfire risk of individual notifications?</p> <p>b) How will PGAE determine the unit cost of individual notifications?</p>	Holly Wehman	8/10/2023	8/15/2023	8/15/2023	0	NA	Grid Operations and Procedures	NA	
433	CaPA	Set WMP-28	CaPA_Sat WMP-28	12	CaPA_Sat WMP-28_Q12	<p>RNPGAE-23-04</p> <p>PGAE views that an isolation zone is "similar to a circuit protection zone" (footnote 16 on page 52).</p> <p>a) Describe the process by which an inspector performing a field safety assessment can recommend a notification be cancelled?</p> <p>b) If the answer to part (a) is yes, describe the differences?</p>	Holly Wehman	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_Q13	<p>RNPGAE-23-04</p> <p>Page 55 of PGAE's response status, with regard to field safety assessments, "inspectors can also recommend that a notification be cancelled if they believe it was created in error or if it was already completed."</p> <p>a) Describe the process by which an inspector performing a field safety assessment can recommend a notification be cancelled?</p> <p>b) If an inspector performing a field safety assessment recommends that a notification be cancelled, are any additional checks or verifications like those used in cancelling the notification?</p> <p>c) If the answer to part (b) is yes, describe such additional checks or verifications.</p> <p>d) If the answer to part (b) is no, explain why not.</p>	Holly Wehman	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_Q14	<p>RNPGAE-23-04</p> <p>Table RNPGAE-23-04-6 on page 59 of PGAE's response status will create 70,200 new tags in 2024 and 70,100 new tags in 2025.</p> <p>a) State the basis for the total number of Level 2 tags PGAE forecasts being created in 2024 and 2025 compared to 2023.</p>	Holly Wehman	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_Q15	<p>RNPGAE-23-04</p> <p>Page 52 of PGAE's response status, "For example, we have found certain appliances (e.g., appliances with two feet of an insulator, and number of appliances per span) do not pose an increased risk of ignition. Instead of issuing a notification risk maintenance tag, the applicator is better addressed by the asset management team as they are a potential indicator of a holistic asset health issue."</p> <p>a) Describe how the asset management team will track appliances that do not pose an ignition risk, and therefore do not have a maintenance tag.</p> <p>b) Describe the circumstances under which PGAE would reappear appliances that do not pose an ignition risk, and therefore do not have a maintenance tag.</p> <p>c) How does PGAE's asset management team use appliances as an indicator of "holistic asset health" and under what circumstances does the asset management team take action based on this indicator?</p>	Holly Wehman	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_Q16	<p>RNPGAE-23-05</p> <p>Page 61 of PGAE's response status, "There are 79 circuit segments that are not included in an underground plan that have not been hardened in place of those circuit segments. PGAE views to add different circuit segments to the portfolio that could be undergrounded more efficiently. PGAE manages wildfire risk on these 79 circuit segments through portfolio of Construction Monitoring and Data Collection and Operational Mitigations described above."</p> <p>a) How does PGAE conduct overhead hardening on the 79 circuit segments described in this section?</p> <p>b) If the answer to part (a) is yes, why does PGAE not have overhead hardening as a mitigation on these 79 circuit segments?</p> <p>c) If the answer to part (a) is no, explain why not.</p>	Holly Wehman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2.2	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_Q17	<p>RNPGAE-23-05</p> <p>a) In the underlying table above to correct the WFE score is based on the WORM 50 risk model. As noted in the formula posted above, the correction of the WFE score is the low-weighted risk value per mile from the WORM 50 risk model, which is not completely identical to the "base risk score" from the WORM 50. At a high level, the purpose of both is to represent the normalized risk for each circuit segment. Mean risk is the average risk per mile, or the summation of risk scores along the length of the circuit segment and dividing that by the number of miles the line passes through. Low-weighted risk per mile accounts for the length of the unhardened line that crosses within a span and normalizes across the risk on each span based on the volume of low-voltage crossing and points to a low-weighted risk score per mile. The technical difference in normalizing risk, combines changes in hardened and unhardened miles within a circuit segment.</p> <p>b) How does PGAE determine the normalized WFE based on the WORM 50 risk model?</p>	Holly Wehman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2.2	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_Q18	<p>RNPGAE-23-05</p> <p>Page 72 of PGAE's response status, "Based on our further evaluation, the preliminary updated mitigation effectiveness for undergrounding, considering the residual risk from secondary and service lines, is approximately 97.7 percent compared to 97.7 percent."</p> <p>a) Describe how PGAE calculated the effectiveness of 97.7 percent?</p> <p>b) Please update dates and outputs for our past response to part (a).</p>	Holly Wehman	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_Q19	<p>RNPGAE-23-07</p> <p>Page 110 of PGAE's response status, "The TAT was developed to fit the scope of the EVM Program. With the inclusion of EVM, PGAE has decided to discontinue the use of the TAT and will be moving forward with industry accepted assessments using the TRAQ Form."</p> <p>a) Given that beginning in 2024, the scope of FTI will be similar to the scope of EVM (approximately 1,800 miles), please explain why the TAT is not appropriate for the scope of FTI?</p> <p>b) Describe the ways in which the TAT and TRAQ form are similar.</p> <p>c) Describe the ways in which the TAT and TRAQ form are different.</p>	Holly Wehman	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_Q20	<p>RNPGAE-23-07</p> <p>Page 114 of PGAE's response status, "Given that we began working with the ISA TRAQ in 2023, data does not yet fully compare effectiveness differences between the ISA TRAQ and the TAT."</p> <p>a) Does PGAE plan to perform a study or analysis to compare the effectiveness of the TAT and the ISA TRAQ?</p> <p>b) Given that beginning in 2024, the scope of FTI will be similar to the scope of EVM (approximately 1,800 miles), please explain why the TAT is not appropriate for the scope of FTI?</p> <p>c) If the answer to part (a) is yes, please describe the study PGAE plans to perform, and the date PGAE plans to complete the study.</p> <p>d) If the answer to part (a) is no, please explain why not.</p>	Holly Wehman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
442	OERIS	011	OERIS_011	1	OERIS_011_Q1	<p>Phase was the table below for responses to subparts (i) and (j):</p> <p>Put Map</p> <p>Consequence Rank</p> <p>HFTD Tar</p> <p>Disturbance</p> <p>Low-Medium High Severe Extreme</p> <p>Tar 1 338 108 85 645 37 421 4 680</p> <p>Tar 2 138 699 30 724 28 89 2 340 880</p> <p>Tar 3 138 699 30 724 28 89 2 340 880</p> <p>a) How does PGAE determine the wildfire risk of individual notifications?</p> <p>b) How does PGAE determine the unit cost of individual notifications?</p>	Dalea Smith	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.3.2.1	Asset Inspections	Disturbance/Ground Inspection

480	OEIS	014	OEIS_014	1	OEIS_014_01	<p>Q01: Regarding Wildlife Benefit Cost Analysis</p> <p>a) In the PG&E Supplemental Revision Notice Responses, PG&E states that it "will be moving away from the WFE to a Wildlife Benefit Cost Analysis (WBCA) at the current approval level." (p. 78)</p> <p>b) How does PG&E determine which mitigation measures are used in combination when evaluating across alternatives? (a) How does PG&E determine which mitigation measures are used in combination when evaluating across alternatives? (a) How does PG&E determine which mitigation measures are used in combination when evaluating across alternatives? (a)</p> <p>c) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>d) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>e) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>f) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>g) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>h) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>i) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>j) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>k) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>l) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>m) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>n) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>o) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>p) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>q) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>r) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>s) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>t) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>u) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>v) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>w) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p> <p>x) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a) How does PG&E estimate the benefits of the proposed mitigation measures? (a)</p> <p>y) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a) How does PG&E estimate the costs of the proposed mitigation measures? (a)</p> <p>z) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a) How does PG&E estimate the net benefits of the proposed mitigation measures? (a)</p>	Daletha Smith	10/6/2023	10/11/2023	10/11/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Underpinning of electric lines and/or equipment
481	OEIS	014	OEIS_014	2	OEIS_014_02	<p>Q02: Regarding backing risk reduction</p> <p>a) Provide PG&E's calculations for risk reduction percentages broken down annually for both the initial open back reduction targets in PG&E's Table PG&E-1.7.2 (PG&E's latest 2022-2025 WMP plan) and the Supplemental Revision Notice Responses (SRN). This should include a discussion of PG&E's calculations for risk reduction, as well as both a reduction in risk rate and overall risk impact.</p> <p>b) Provide PG&E's overall calculations for risk reduction percentages for the original 2022-2025 WMP plan for addressing backing risk reduction. This should also account for any new risk introduced from changes in responding to Priority 1 and 2 tags that may follow GO 20 requirements to be handled. This should include a discussion of PG&E's calculations for risk reduction, as well as both a reduction in risk rate and overall risk impact.</p> <p>c) Explain the differences between the percent risk rate and the 1/30 risk impact as shown in Tables PG&E-2.2-2.4-2 (p. 50) for the scenario, 2022 (see a) 4.0 percent risk reduction, but only a 2.4 percent risk impact reduction).</p>	Daletha Smith	10/6/2023	10/11/2023	10/11/2023	0	NA	8.1.7	Open Work Orders	NA
482	MGRA	Data Request No. 7	MGRA_Data Request No. 7	1	MGRA_Data Request No. 7_Q1	<p>Please list the titles and qualifications of the team members on the Public Safety Specialist team. Specifically please note the level of experience team members have in:</p> <p>a) Fire spread modeling using Technichy or other simulation tools</p> <p>b) Traffic control and evacuation modeling</p> <p>c) Wildland firefighting and suppression</p> <p>Please include any specific work experience or accomplishments.</p>	Joseph Mitchell	10/6/2023	10/11/2023	10/11/2023	0	NA	8.4.4.1	Emergency Preparedness	Protocols for Emergency Communications
483	MGRA	Data Request No. 7	MGRA_Data Request No. 7	2	MGRA_Data Request No. 7_Q2	<p>Are ingress and egress concerns determined solely by the potential for falling poles or does the PSE team also analyze the potential for entrapment by fall covering wildfires and/or insufficient notice?</p>	Joseph Mitchell	10/6/2023	10/11/2023	10/11/2023	0	NA	8.1.3	Asset Inspections	NA
484	MGRA	Data Request No. 7	MGRA_Data Request No. 7	3	MGRA_Data Request No. 7_Q3	<p>How representative is the primary PSE score of the entire circuit? Specifically:</p> <p>a) How many hardening projects are there per circuit? Provide a distribution if possible.</p> <p>b) What factors does the hardening project typically take up of the circuit? Provide a distribution if possible.</p> <p>c) Show how PSE scores are determined and how these compare against WORM v3.</p> <p>d) PSE Ingress/Egress scores used as an element incorporated into the risk model or if it used as an independent decision tree branch point?</p> <p>e) What factors of underpinning projects only PSE Ingress/Egress scores use to make the determination to underpin?</p> <p>f) Provide the fraction for cases where the PSE Ingress/Egress score was only one of many factors used in the determination to underpin.</p>	Joseph Mitchell	10/6/2023	10/11/2023	10/11/2023	1	NA	8.1.3	Asset Inspections	NA
485	CuPA	Set WMP-30	CuPA_Set WMP-30	1	CuPA_Set WMP-30_Q1	<p>This data request relates to PG&E's Wildlife Distribution Risk Model version 4 (hereinafter referred to as "WDRM v4"). If any of the requested documents or information is not complete and available, please state in your response when you expect the documents or information to be complete and available.</p> <p>a) Please list all distinct risk scores generated by PG&E's WDRM v4. For example, WDRM v3 generated 17 different risk scores.</p> <p>b) For each risk score in part (a), please provide a category or brief description of the type of risk the score represents.</p> <p>c) For each risk score in part (a), please provide a brief explanation of how PG&E intends to use that risk score.</p> <p>d) For each risk score in part (a), please list PG&E wildfire mitigation strategies that are informed by that risk score.</p> <p>e) For each risk score in part (a), please state the most granular level available for that risk score. For example, in WDRM v3, the most granular level available would be the risk scores associated with individual 100m x 100m cells.</p> <p>f) For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation strategies (e.g., circuit segment, circuit, individual asset, etc.).</p>	Holly Wilmam	10/11/2023	10/25/2023	10/23/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	

484	CaPA	Set WMP-34	CaPa_Sat WMP-34	4	CaPa_Sat WMP-34_04	<p>PG&E's 2023 WMP R1, p. 1044, states "Name changes including the absorption of CPDs into others resulting in a new circuit ID will be implemented in the 2023 WMP Underpinning Workplan." Additionally, in 4.10, in Table RW-PG&E-23-05-1, Circuit Segments in the 2022 WMP Underpinning Workplan 4.10 list the 2023 Underpinning Workplan status. (a) PG&E often change circuit segment names when additional engineering devices are placed on the grid or other grid change designs such as switching names.</p> <p>(b) Describe PG&E's circuit segment naming convention when a segmenting device is installed or other grid change occurs, e.g., a segmenting device on a CPD is first put and the line beyond after which the name changes) would be affected (e.g., immediately after grid change, end of month, end of fiscal year, etc.)</p> <p>(c) Have any of the CPDs with EPSS enabled had a change of CPD name from month-to-month in the EPSS Monthly Reports to SED, since the first EPSS report was submitted?</p> <p>(d) If the answer to part (b) is yes, provide a list of CPDs with previous names), current name, date the name change occurred, and the reason for the name change, description of the state of the CPD (e.g., active or inactive).</p> <p>(e) NOTE: This should include operational name changes (e.g., suppose that CPD A divides the CPD A and CPD B in March 2022, but then in March 2023 CPD B becomes CPD C, such that CPD A no longer exists).</p>	Justin Hager	1/21/2023	1/22/2024	1/22/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
485	CaPA	Set WMP-34	CaPa_Sat WMP-34	5	CaPa_Sat WMP-34_05	<p>Provide a breakdown of all distribution circuits in HF ID or High Voltage Distribution (HVD) or overhead HFD and HFPA boundaries, existing on January 1, 2023 (see rows that include the following information in separate tables):</p> <ul style="list-style-type: none"> (a) Circuit Name (b) Circuit ID (c) City (d) Division (e.g., Low Voltage Division) (e) Class PG&E first sustained EPSS settings on any part of the circuit? (f) Total Customers (g) Number of CPDs contained on the circuit (h) Circuit SADD for 2017 (i) Circuit SADD for 2019 (j) Circuit SADD for 2021 (k) Circuit SADD for 2019 (l) Circuit SADD for 2021 (m) Circuit SADD for 2019 (n) Circuit SADD for 2021 (o) Circuit SADD for 2019 (p) Circuit SADD for 2021 <p>Example (WMP-34_05):</p> <ul style="list-style-type: none"> (a) Circuit Name (b) Circuit ID (c) City (d) Division (e.g., Low Voltage Division) (e) Class PG&E first sustained EPSS settings on any part of the circuit? (f) Total Customers (g) Number of CPDs contained on the circuit (h) Circuit SADD for 2017 (i) Circuit SADD for 2019 (j) Circuit SADD for 2021 (k) Circuit SADD for 2019 (l) Circuit SADD for 2021 (m) Circuit SADD for 2019 (n) Circuit SADD for 2021 (o) Circuit SADD for 2019 (p) Circuit SADD for 2021 	Justin Hager	1/21/2023	1/22/2024	1/22/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	1	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
486	CaPA	Set WMP-34	CaPa_Sat WMP-34	6	CaPa_Sat WMP-34_06	<p>Please include the data presented in question 5 into performance quartiles based on SADD and SADD1. (An example is provided in the circuit segment naming convention for a Circuit Protection Zone CPD in a separate table.)</p> <p>(a) Of the distribution circuits listed in response to Question 5, identify in Excel spreadsheet format, the best performing (i.e., circuits experiencing the least duration of sustained outages) 25% circuits by average combined SADD for years 2017 to 2019 in each of your divisions.</p> <p>(b) Of the distribution circuits listed in response to Question 5, identify in Excel spreadsheet format, the worst performing (i.e., circuits experiencing the most sustained outages) 25% circuits by average combined SADD for years 2017 to 2019 in each of your divisions.</p> <p>(c) Of the distribution circuits listed in response to Question 5, identify in Excel spreadsheet format, the best performing (i.e., circuits experiencing the least duration of sustained outages) 25% circuits by average combined SADD1 for years 2017 to 2019 in each of your divisions.</p> <p>(d) Of the distribution circuits listed in response to Question 5, identify in Excel spreadsheet format, the worst performing (i.e., circuits experiencing the longest duration of sustained outages) 25% circuits by average combined SADD1 for years 2017 to 2019 in each of your divisions.</p> <p>Example Table: Question 6, Part 4)</p> <p>Division: _____ Circuit Name: _____ Average SADD 2017-2019: _____ Low Voltage: _____ San Francisco 1101: _____ Los Peñas: _____ Los Angeles 1102: _____ T-11: _____ North Valley: _____ Substation 1103: _____</p>	Justin Hager	1/21/2023	1/22/2024	1/22/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
487	CaPA	Set WMP-34	CaPa_Sat WMP-34	7	CaPa_Sat WMP-34_07	<p>Provide an Excel table that lists (see rows) each momentary outage that occurred from January 1, 2017 through December 31, 2022 on any of the circuits identified in your responses to Question 6. For each outage, the Excel table should include the following information in separate columns:</p> <ul style="list-style-type: none"> (a) Outage ID (b) Circuit Name (c) Circuit ID (d) Division (e) Was EPSS enabled on this circuit at the time of the outage? (f) Was EPSS enabled on this circuit at the time of the outage? (g) FNE (Final No Light) (h) Outage End Date & Time (i) CERSO (Count of Customers Experiencing Sustained Outages) (j) Customer Minutes (k) Cause (l) Was the circuit scheduled in response to the momentary outages? 	Justin Hager	1/21/2023	1/22/2024	1/22/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	2	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
488	CaPA	Set WMP-34	CaPa_Sat WMP-34	8	CaPa_Sat WMP-34_08	<p>Provide an Excel table that lists (see rows) each momentary outage that occurred from January 1, 2017 through December 31, 2022 on any of the circuits identified in your responses to Question 6. For each outage, the Excel table should include the following information in separate columns:</p> <ul style="list-style-type: none"> (a) Outage ID (b) Circuit Name (c) Circuit ID (d) Division (e) Was EPSS enabled on this circuit at the time of the outage? (f) Was EPSS enabled on this circuit at the time of the outage? (g) FNE (Final No Light) (h) Outage End Date & Time (i) CERSO (Count of Customers Experiencing Sustained Outages) (j) Customer Minutes (k) Cause (if known) (l) Was the circuit scheduled in response to the momentary outages? 	Justin Hager	1/21/2023	1/22/2024	1/22/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	1	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
489	CaPA	Set WMP-34	CaPa_Sat WMP-34	9	CaPa_Sat WMP-34_09	<p>Regarding PG&E's 2021 Reliability Report, PG&E stated "New reliability projects have been initiated on Gaterwells 1101 circuit to minimize the impacts of EPSS... and taking a more surgical approach in applying EPSS settings when the circuit is most at risk." However, PG&E did not report an EPSS outage for Gaterwells 1101 in 2021. PG&E's first reported outage on Gaterwells 1101 was on July 24, 2022.10 which was after the 2021 Reliability Report was published. Please explain this discrepancy.</p>	Justin Hager	1/21/2023	1/19/2024	1/19/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
500	CaPA	Set WMP-34	CaPa_Sat WMP-34	10	CaPa_Sat WMP-34_10	<p>Regarding PG&E's 2021 Reliability Report, PG&E stated "New reliability projects have been initiated on Clear 1102 circuit to minimize the impacts of EPSS... and taking a more surgical approach in applying EPSS settings when the circuit is most at risk." However, PG&E did not report an EPSS outage for Clear 1102 in 2021. PG&E's first reported outage on Clear 1102 was on August 19, 2022.15 which was after the 2021 Reliability Report was published. Please explain this discrepancy.</p>	Justin Hager	1/21/2023	1/19/2024	1/19/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
501	CaPA	Set WMP-34	CaPa_Sat WMP-34	11	CaPa_Sat WMP-34_11	<p>In PG&E's November 2023 EPSS Monthly Report, PG&E reports that there have been 28 outages on EPSS-enabled transmission lines (EPSS outages) in the year to date.</p> <p>(a) Have these outages been reported in your responses to Question 5?</p> <p>(b) If the answer to part (a) is no, describe the extent of the transmission line that may have been a substitution that may be subject to the transmission line that would not report outages that occur on EPSS-enabled transmission lines?</p> <p>(c) If the answer to part (b) is yes, please describe the extent of the transmission line that may have been a substitution that may be subject to the transmission line that would not report outages that occur on EPSS-enabled transmission lines?</p> <p>(d) If the answer to part (c) is yes, please describe the extent of the transmission line that may have been a substitution that may be subject to the transmission line that would not report outages that occur on EPSS-enabled transmission lines?</p>	Justin Hager	1/21/2023	1/19/2024	1/19/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
502	CaPA	Set WMP-35	CaPa_Sat WMP-35	1	CaPa_Sat WMP-35_01	<p>In Table 9-2 of PG&E's 2023-2025 WMP RA submitted January 8th, 2024, PG&E indicates that "Reliability projects have been initiated on Gaterwells 1101 circuit to minimize the impacts of EPSS... and taking a more surgical approach in applying EPSS settings when the circuit is most at risk." However, PG&E did not report an EPSS outage for Gaterwells 1101 in 2021. PG&E's first reported outage on Gaterwells 1101 was on July 24, 2022.10 which was after the 2021 Reliability Report was published. Please explain this discrepancy.</p>	Franley Lee	2/2/2024	2/23/2024	2/23/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	1	NA	9.1.2	Identification of Frequently De-Energized Circuits	NA
503	CaPA	Set WMP-36	CaPa_Sat WMP-36	1	CaPa_Sat WMP-36_01	<p>PG&E provided the following table in the responses to CaPA/PG&E-2023/WMP/36/question.5. Please provide an updated table showing actual values for 2023 and forecast values for 2024, with the values for 2022 and 2023 being the same as those provided in the responses to CaPA/PG&E-2023/WMP/36/question.5. Please provide the following information:</p> <ul style="list-style-type: none"> (a) Total Removal Inventory (b) Total Removal Inventory (c) Total Removal Inventory (d) Total Removal Inventory (e) Total Removal Inventory (f) Total Removal Inventory (g) Total Removal Inventory (h) Total Removal Inventory (i) Total Removal Inventory (j) Total Removal Inventory (k) Total Removal Inventory (l) Total Removal Inventory (m) Total Removal Inventory (n) Total Removal Inventory (o) Total Removal Inventory (p) Total Removal Inventory (q) Total Removal Inventory (r) Total Removal Inventory (s) Total Removal Inventory (t) Total Removal Inventory (u) Total Removal Inventory (v) Total Removal Inventory (w) Total Removal Inventory (x) Total Removal Inventory (y) Total Removal Inventory (z) Total Removal Inventory 	Franley Lee	3/6/2024	3/29/2024	3/29/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA		Vegetation Management	NA
504	CaPA	Set WMP-36	CaPa_Sat WMP-36	2	CaPa_Sat WMP-36_02	<p>Please disaggregate the data in Table 11 of PG&E's 2023 Q4 QDR such that there is only one URM Initiative Tracking ID for each row. If this is not possible, please explain why and clarify the methodology for grouping certain tracking IDs.</p>	Franley Lee	3/6/2024	3/29/2024	3/29/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	0	NA	QDR	NA	NA
504	CaPA	Set WMP-36	CaPa_Sat WMP-36	REV	CaPa_Sat WMP-36_Q2REV	<p>Please disaggregate the data in Table 11 of PG&E's 2023 Q4 QDR such that there is only one URM Initiative Tracking ID for each row. If this is not possible, please explain why and clarify the methodology for grouping certain tracking IDs.</p>	Franley Lee	3/6/2024	4/9/2024	4/9/2024	<p>http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/ http://www.pge.com/energy/epss/epss-reports-and-data/</p>	2	NA	QDR	NA	NA

505	CaPA	Set WMP-38	CaPa_Sat WMP-38	3	CaPA_Sat WMP-38_Q3	Table 7 of PGE's 2022 Q4 QDR does not reflect the planned or actual net addition or removal values reported in Table 8. Please explain this discrepancy. b) In Table 7 or Table 8 accurate? c) Table 7 and Table 8 are both accurate, and Table 8 is formulaically derived from Table 7.	Fierly Leo	38/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	0	NA	QDR	NA	NA	
506	CaPA	Set WMP-38	CaPa_Sat WMP-38	4	CaPA_Sat WMP-38_Q4	Table 9 of PGE's 2022 Q4 QDR reports on the utility's infrastructure upgrades. Please provide clarification on how PGE's internal and external utility infrastructure upgrades. If the data includes section 12.3, please explain the "Materials, etc." items. Please explain the negative values reported for metric number 1.6.3.c) in Q3 2022 and Q4 2022.	Fierly Leo	38/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	0	NA	QDR	NA	NA	
Pre-Discovery 01	CaPA	Set WMP-01	CaPa_Sat WMP-01	1	CaPA_Sat WMP-01_Q1	Please provide a copy of each WMP-related document, submission, or report you intend to submit to the Office of Energy Infrastructure Safety (Energy Safety) in 2023 that is related to your WMP. Provide the copy to CA Advocates within one business day of the document's submission to Energy Safety. If you have submitted the document to Energy Safety in 2022 prior to this date request, please provide a copy as soon as possible and no later than 10 business days from the issuance of this date request. This request is limited to materials or documents that (1) are related to work items, relative targets, risk metrics, risk assessment (PGE) 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 revisions or change orders affecting your WMP.	Holly Whetman	27/2023	2/14/2023	2/14/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	0	NA	NA	NA	NA	
Pre-Discovery 02	CaPA	Set WMP-01	CaPa_Sat WMP-01	2	CaPA_Sat WMP-01_Q2	Please provide a copy of your WMP pre-submission within two business days of its submission to Energy Safety.	Holly Whetman	27/2023	2/15/2023	2/15/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	1	NA	NA	NA	NA	
Pre-Discovery 03	CaPA	Set WMP-01	CaPa_Sat WMP-01	3	CaPA_Sat WMP-01_Q3	Provide a copy of all documents or files that are referenced in your WMP Quarterly Data Reports and submitted to Energy Safety (including but not limited to all PDFs, excel data files, non-confidential data files, and confidential information) in the same business day that the document is submitted to Energy Safety.	Holly Whetman	27/2023	2/14/2023	2/14/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	0	NA	NA	NA	NA	
Pre-Discovery 04	CaPA	Set WMP-01	CaPa_Sat WMP-01	4	CaPA_Sat WMP-01_Q4	Provide a copy to CA Advocates of all your confidential responses to WMP discovery requests, on the same business day that you send the documents to the issuer of the discovery request. This includes: a) Confidential responses to WMP discovery requests issued by Energy Safety. b) Confidential responses to WMP discovery requests issued by other entities.	Holly Whetman	27/2023	2/14/2023	2/14/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	0	NA	NA	NA	NA	
Pre-Discovery 05	CaPA	Set WMP-02	CaPa_Sat WMP-02	1	CaPA_Sat WMP-02_Q1	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that were completed since January 1, 2022 and that examined any programs, infractions, or violations prescribed in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, auditors, or other approved entities. Please see the attachment below for the System Inspections QC Department's daily and weekly distribution summarizing Key Performance Indicators (KPIs) and analysis. * WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf Please note the above attachment contains confidential information. Electric Compliance Quality Management - GO 165 Inspections Please see attachment listed below for the Electric Compliance Quality Management Department's audits of GO 165 Inspections. One Distribution and one Transmission system inspections audit were conducted in 2022. Please see attachment: WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf and WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf. The 2022 WMP submission for Vegetation CV is broken down by the following components: Distribution Reviews, Transmission Reviews, Vegetation Control Reviews, and Break-In Audits. CV-181 work logs published as "all" is a comprehensive log of CV requests completed in 2022 including a summary of findings for each review as well as a detailed report of those findings. * 2022 CV-181 Report: attached as "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". * Vegetation Quality Assurance (QA) The 2022 WMP submission for Vegetation QA is broken down by "brand". Final reports are available for brands that have been completed to date. Please see the attached zip file for a total of 17 CA Report Packages: "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". Please note the above attachment contains confidential information.	Holly Whetman	27/2023	3/7/2023	3/7/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	6	NA	NA	NA	NA	
Pre-Discovery 06	CaPA	Set WMP-02	CaPa_Sat WMP-02	2	CaPA_Sat WMP-02_Q2	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that were completed since January 1, 2022 and that examined any programs, infractions, or violations prescribed in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, auditors, or other approved entities. Please see the attachment below for the System Inspections QC Department's daily and weekly distribution summarizing Key Performance Indicators (KPIs) and analysis. * WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf Please note the above attachment contains confidential information. Electric Compliance Quality Management - GO 165 Inspections Please see attachment listed below for the Electric Compliance Quality Management Department's audits of GO 165 Inspections. One Distribution and one Transmission system inspections audit were conducted in 2022. Please see attachment: WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf and WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf. The 2022 WMP submission for Vegetation CV is broken down by the following components: Distribution Reviews, Transmission Reviews, Vegetation Control Reviews, and Break-In Audits. CV-181 work logs published as "all" is a comprehensive log of CV requests completed in 2022 including a summary of findings for each review as well as a detailed report of those findings. * 2022 CV-181 Report: attached as "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". * Vegetation Quality Assurance (QA) The 2022 WMP submission for Vegetation QA is broken down by "brand". Final reports are available for brands that have been completed to date. Please see the attached zip file for a total of 17 CA Report Packages: "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". Please note the above attachment contains confidential information.	Holly Whetman	27/2023	3/7/2023	3/7/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	1	NA	NA	NA	NA	
Pre-Discovery 07	CaPA	Set WMP-02	CaPa_Sat WMP-02	3	CaPA_Sat WMP-02_Q3	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that were completed since January 1, 2022 and that examined any programs, infractions, or violations prescribed in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, auditors, or other approved entities. Please see the attachment below for the System Inspections QC Department's daily and weekly distribution summarizing Key Performance Indicators (KPIs) and analysis. * WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf Please note the above attachment contains confidential information. Electric Compliance Quality Management - GO 165 Inspections Please see attachment listed below for the Electric Compliance Quality Management Department's audits of GO 165 Inspections. One Distribution and one Transmission system inspections audit were conducted in 2022. Please see attachment: WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf and WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf. The 2022 WMP submission for Vegetation CV is broken down by the following components: Distribution Reviews, Transmission Reviews, Vegetation Control Reviews, and Break-In Audits. CV-181 work logs published as "all" is a comprehensive log of CV requests completed in 2022 including a summary of findings for each review as well as a detailed report of those findings. * 2022 CV-181 Report: attached as "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". * Vegetation Quality Assurance (QA) The 2022 WMP submission for Vegetation QA is broken down by "brand". Final reports are available for brands that have been completed to date. Please see the attached zip file for a total of 17 CA Report Packages: "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". Please note the above attachment contains confidential information.	Holly Whetman	27/2023	2/22/2023	2/22/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	1	NA	NA	8.1.3	Asset Inspections	NA
Pre-Discovery 08	CaPA	Set WMP-03	CaPa_Sat WMP-03	1	CaPA_Sat WMP-03_Q1	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that were completed since January 1, 2022 and that examined any programs, infractions, or violations prescribed in your 2022 WMP Update. External entities include, but are not limited to, consultants, contractors, auditors, or other approved entities. Please see the attachment below for the System Inspections QC Department's daily and weekly distribution summarizing Key Performance Indicators (KPIs) and analysis. * WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf Please note the above attachment contains confidential information. Electric Compliance Quality Management - GO 165 Inspections Please see attachment listed below for the Electric Compliance Quality Management Department's audits of GO 165 Inspections. One Distribution and one Transmission system inspections audit were conducted in 2022. Please see attachment: WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf and WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf. The 2022 WMP submission for Vegetation CV is broken down by the following components: Distribution Reviews, Transmission Reviews, Vegetation Control Reviews, and Break-In Audits. CV-181 work logs published as "all" is a comprehensive log of CV requests completed in 2022 including a summary of findings for each review as well as a detailed report of those findings. * 2022 CV-181 Report: attached as "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". * Vegetation Quality Assurance (QA) The 2022 WMP submission for Vegetation QA is broken down by "brand". Final reports are available for brands that have been completed to date. Please see the attached zip file for a total of 17 CA Report Packages: "WMP-Discovery02_Q1_CaPAAdvocates_Q3-2022-04-01-2022.pdf". Please note the above attachment contains confidential information.	Holly Whetman	27/2023	3/15/2023	3/15/2023	https://www.pge.com/energy/infrastructure/energy-safety/energy-safety-reports/quarterly-data-reports	2	NA	8.1.3	Asset Inspections	Distribution	

Pre-Discovery 09	CaPA	Set WMP-03	CaPA_Sat_WMP-03_2	2	CaPA_Set_WMP-03_02	<p>Provide an Excel table of all transmission circuits existing as of January 1, 2022 (as new) that includes the following information in separate columns:</p> <ol style="list-style-type: none"> Circuit name Circuit ID number Total circuit miles Circuit miles in Non-HFTD Areas Circuit miles in Other HFTD Circuit miles in HFTD Tar 2 Circuit miles in HFTD Tar 3 Circuit miles in HFTD Tar 4 <p>Total customer-miles of de-energization on the circuit due to PSPS events in 2021 (sum of customer-miles across all PSPS events).</p> <p>Total customer-miles of de-energization on the circuit due to fast-ramp settings in 2022 (sum of customer-miles across all PSPS events).</p> <p>Total number of support structures replaced in Non-HFTD in 2022</p> <p>Total number of support structures replaced in Other HFTD in 2022</p> <p>Total number of support structures replaced in HFTD Tar 2 in 2022</p> <p>Total number of support structures replaced in HFTD Tar 3 in 2022</p> <p>Total number of support structures replaced in HFTD Tar 4 in 2022</p> <p>Number of L2AR inspections in Non-HFTD in 2022</p> <p>Number of L2AR inspections in Other HFTD in 2022</p> <p>Number of L2AR inspections in HFTD Tar 2 in 2022</p> <p>Number of L2AR inspections in HFTD Tar 3 in 2022</p> <p>Number of L2AR inspections in HFTD Tar 4 in 2022</p>	<p>PG&E is providing the requested transmission information at the circuit level in the attachment named "WMP-Discovery09_02_CaPA_CableRoutes_003-000486Set.xlsx".</p> <p>Included in the table below are notes that document assumptions in the methodology for data collection. Where we did not include any notes, the data provided did not require explanation or assumptions in answering the request.</p> <p>For purposes of this request, "Other HFTD" refers to Zone 1 areas. Asset data provided in response to this request was generated from PG&E's Geographic Information Systems (GIS) and presented in a spreadsheet format. PG&E's Electric Transmission GIS and Electric Distribution GIS mapping systems represent assets associated with construction work that was not being reviewed and inspected by electric GIS mapping technicians. Construction jobs that are partially complete or fully complete may be recognized in the GIS systems since construction "in fact" information has been entered into the GIS mapping database.</p> <p>Priority items received by the GIS Mapping Department, completed job packages must undergo several processing steps including: reviewing, processing, and preparing customer notices.</p> <p>Additional information from the processing step may be used to complete, verify, or correct additional information from the processing step. The processing step may also be used to complete, verify, or correct additional information from the processing step.</p> <p>Number of support structures replaced in Non-HFTD in 2022</p> <p>Number of support structures replaced in Other HFTD in 2022</p> <p>Number of support structures replaced in HFTD Tar 2 in 2022</p> <p>Number of support structures replaced in HFTD Tar 3 in 2022</p> <p>Number of support structures replaced in HFTD Tar 4 in 2022</p> <p>Number of L2AR inspections in Non-HFTD in 2022</p> <p>Number of L2AR inspections in Other HFTD in 2022</p> <p>Number of L2AR inspections in HFTD Tar 2 in 2022</p> <p>Number of L2AR inspections in HFTD Tar 3 in 2022</p> <p>Number of L2AR inspections in HFTD Tar 4 in 2022</p>	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	0	8.1.3	Asset Inspections	Transmission	
Pre-Discovery 10	CaPA	Set WMP-03	CaPA_Sat_WMP-03_3	3	CaPA_Set_WMP-03_03	<p>Provide an Excel table of all distribution circuits existing as of January 1, 2022 (as new) that were removed or decommissioned in 2022, either partially or entirely. This includes permanent removal, removal of overhead lines that were removed underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns:</p> <ol style="list-style-type: none"> Circuit name Circuit miles removed or decommissioned in Non-HFTD Areas Circuit miles removed or decommissioned in Other HFTD Circuit miles removed or decommissioned in HFTD Tar 2 Circuit miles removed or decommissioned in HFTD Tar 3 Reason(s) for removal or decommissioning 	<p>Attached is "WMP-Discovery09_02_CaPA_CableRoutes_003-000486Set.xlsx", which provides information regarding removal of primary distribution lines in HFTD in 2022, which is the subject of the requested information available at the time. PG&E does not track the removals when relocating overhead to underground, removing secondary services, or removing lines in non-HFTD. Further, our GIS cannot be used to obtain the information retroactively because when relaying removals, the electric assets are removed from GIS.</p> <p>Below we provide additional information to qualify the data presented in the attachment in response to the request.</p> <p>Circuit name: See column C.</p> <p>Circuit ID number: See column D.</p> <p>Circuit miles removed or decommissioned in Non-HFTD Areas: NA. As noted above, PG&E does not track the removal of overhead lines that were removed underground, removed secondary services, or removing lines in non-HFTD.</p> <p>Circuit miles removed or decommissioned in Other HFTD: NA. As noted above, PG&E does not track the removal of overhead lines that were removed underground, removed secondary services, or removing lines in non-HFTD.</p> <p>Circuit miles removed or decommissioned in HFTD Tar 2: NA. As noted above, PG&E does not track the removal of overhead lines that were removed underground, removed secondary services, or removing lines in non-HFTD.</p> <p>Circuit miles removed or decommissioned in HFTD Tar 3: NA. As noted above, PG&E does not track the removal of overhead lines that were removed underground, removed secondary services, or removing lines in non-HFTD.</p> <p>Circuit miles removed or decommissioned in HFTD Tar 4: NA. As noted above, PG&E does not track the removal of overhead lines that were removed underground, removed secondary services, or removing lines in non-HFTD.</p> <p>Reason(s) for removal or decommissioning: See column G.</p> <p>(1) Fire Related - Removal based on including in the aftermath of wildfires.</p> <p>(2) Fire Related - Unread facilities with no formalized future work.</p> <p>(3) Base SH (System Hardening) - Removal based on the risk-informed criteria used in PG&E's System Hardening Program.</p>	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	1	8.1.2	Grid Design and System Hardening	Work Performed in 2022	
Pre-Discovery 11	CaPA	Set WMP-03	CaPA_Sat_WMP-03_4	4	CaPA_Set_WMP-03_04	<p>Provide an Excel table of all transmission circuits existing as of January 1, 2022 (as new) that were removed or decommissioned in 2022, either partially or entirely. This includes permanent removal, removal of overhead lines that were removed underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns:</p> <ol style="list-style-type: none"> Circuit name Circuit miles removed or decommissioned in Non-HFTD Areas Circuit miles removed or decommissioned in Other HFTD Circuit miles removed or decommissioned in HFTD Tar 2 Circuit miles removed or decommissioned in HFTD Tar 3 Reason(s) for removal or decommissioning 	<p>Please see "WMP-Discovery09_02_CaPA_CableRoutes_003-000486Set.xlsx".</p>	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	1	NA	Grid Design and System Hardening	System Hardening	Work Performed in 2022
Pre-Discovery 12	CaPA	Set WMP-03	CaPA_Sat_WMP-03_5	5	CaPA_Set_WMP-03_05	<p>For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influenced where you performed work in 2022.</p> <ol style="list-style-type: none"> EVM Covered conductor installation Underpinning Grid stabilization Additional inspections of distribution assets Additional inspections of transmission assets L2AR inspections of distribution assets L2AR inspections of transmission assets 	<p>EVM work in 2022 was informed by a modification of the 2021 Wildfire Distribution Risk Model (WDRM). The revised output from the 2021 WDRM is referred to as the EVM Tree-Weighted Prioritization. The EVM Tree-Weighted Prioritization prioritized the high risk (Q1) with the associated critical and estimated tree work to complete the 2022 EVM Scope of Work as described in the 2022 WMP Section 7.1.B. In 2022, the goals for the EVM program were: (1) to perform at least 80% of our 2022 EVM work each month; (2) to complete 20% of the critical miles; and (3) to complete approximately 100 miles of EVM work by the end of the year.</p> <p>As described in the 2022 WMP Section 7.3.1.7 "System Hardening - Distribution," PG&E targeted the highest wildfire risk miles and applied various mitigation such as the removal, conversion from overhead to underground, application of single and alternative, mitigation of exposure through relocation of overhead facilities, and replace overhead facilities and equipment.</p> <p>For 2022, the highest wildfire risk miles were separated into four categories:</p> <ol style="list-style-type: none"> The top 20 percent of circuit segments as defined by PG&E's 2021 WDRM v2 for System Hardening. PSPP mitigation projects. Covered conductor projects. Locations identified by PG&E's Public Safety Specialist (PSS) team as presenting elevated wildfire risk. <p>As described in the 2022 WDRM v2, the 2022 WDRM v2 is a "System Hardening - Distribution." PG&E targeted the highest wildfire risk miles and applied various mitigation such as the removal, conversion from overhead to underground, application of single and alternative, mitigation of exposure through relocation of overhead facilities, and in-place overhead system hardening.</p> <p>For 2022, the highest wildfire risk miles targeted the top four categories:</p> <ol style="list-style-type: none"> The top 20 percent of circuit segments as defined by PG&E's 2021 WDRM v2 for System Hardening. Fire and Major Emergency related HFTD. PSPP mitigation projects. Locations identified by PG&E's Public Safety Specialist (PSS) team as presenting elevated wildfire risk. <p>The primary approach used for selecting and prioritizing circuit segments for converting overhead to underground was based on the 2022 WDRM v2. As described in the 2022 WMP Section 7.3.1.7.1 "Fire County Public Program," PG&E did not identify these circuit segments using a risk model.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p>	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	0	NA	2022 WMP Section 7.1	Wildfire Mitigation Strategy Development	NA
Pre-Discovery 13	CaPA	Set WMP-03	CaPA_Sat_WMP-03_6	6	CaPA_Set_WMP-03_06	<p>For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influenced where you performed work in 2022.</p> <ol style="list-style-type: none"> EVM Covered conductor installation Underpinning Grid stabilization Additional inspections of distribution assets Additional inspections of transmission assets L2AR inspections of distribution assets L2AR inspections of transmission assets 	<p>The primary approach used for selecting and prioritizing circuit segments for converting overhead to underground was based on the 2022 WDRM v2. As described in the 2022 WMP Section 7.3.1.7.1 "Fire County Public Program," PG&E did not identify these circuit segments using a risk model.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p> <p>As described in the 2022 WMP Section 7.3.1.8 "Distribution Pole Replacement and Reinforcement," including with Composite Poles, PG&E reviewed the Wildfire Distribution Risk Model (WDRM) v2 to determine what pole replacement work was performed in 2022. Pole replacement was driven primarily by asset condition, safety, and performance.</p>	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	0	NA	2022 WMP Section 7.1	Wildfire Mitigation Strategy Development	NA
Pre-Discovery 14	CaPA	Set WMP-03	CaPA_Sat_WMP-03_7	7	CaPA_Set_WMP-03_07	<p>For each WMP initiative listed below, please state how the modeled Wildfire Risk Scores for each circuit or circuit-segment influenced where you performed work in 2022.</p> <ol style="list-style-type: none"> EVM Covered conductor installation Underpinning Grid stabilization Additional inspections of distribution assets Additional inspections of transmission assets L2AR inspections of distribution assets L2AR inspections of transmission assets 	<p>As described in the 2022 WMP Section 7.1.2 "Covered Conductor Installation - Distribution," PG&E's System Hardening program, which includes targeted CC installation, focuses on mitigating potential catastrophic wildfire risk caused by distribution overhead assets. The System Hardening Program applies various mitigation to circuit segments that have the highest wildfire risk. For 2022, the highest wildfire risk miles are identified by the following categories:</p> <ol style="list-style-type: none"> Top Risk Based on Wildfire Distribution Risk Model (WDRM). The primary approach for identifying system hardening miles used two risk prioritization methodologies: (1) the 20 percent circuit segments based on the 2021 WDRM v2 and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WDRM v2. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Characterizing Fire Risk areas is identified through a decision tree to determine the type of rebuild needed for each area, including: (1) rebuild, (2) rebuild with mitigation, (3) rebuild with mitigation and fire risk reduction, and (4) rebuild with mitigation and fire risk reduction. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. <p>As described in the 2022 WMP Section 7.1.2 "Covered Conductor Installation - Distribution," PG&E's System Hardening program, which includes targeted CC installation, focuses on mitigating potential catastrophic wildfire risk caused by distribution overhead assets. The System Hardening Program applies various mitigation to circuit segments that have the highest wildfire risk. For 2022, the highest wildfire risk miles are identified by the following categories:</p> <ol style="list-style-type: none"> Top Risk Based on Wildfire Distribution Risk Model (WDRM). The primary approach for identifying system hardening miles used two risk prioritization methodologies: (1) the 20 percent circuit segments based on the 2021 WDRM v2 and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WDRM v2. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Characterizing Fire Risk areas is identified through a decision tree to determine the type of rebuild needed for each area, including: (1) rebuild, (2) rebuild with mitigation, (3) rebuild with mitigation and fire risk reduction, and (4) rebuild with mitigation and fire risk reduction. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. <p>As described in the 2022 WMP Section 7.1.2 "Covered Conductor Installation - Distribution," PG&E's System Hardening program, which includes targeted CC installation, focuses on mitigating potential catastrophic wildfire risk caused by distribution overhead assets. The System Hardening Program applies various mitigation to circuit segments that have the highest wildfire risk. For 2022, the highest wildfire risk miles are identified by the following categories:</p> <ol style="list-style-type: none"> Top Risk Based on Wildfire Distribution Risk Model (WDRM). The primary approach for identifying system hardening miles used two risk prioritization methodologies: (1) the 20 percent circuit segments based on the 2021 WDRM v2 and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WDRM v2. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Characterizing Fire Risk areas is identified through a decision tree to determine the type of rebuild needed for each area, including: (1) rebuild, (2) rebuild with mitigation, (3) rebuild with mitigation and fire risk reduction, and (4) rebuild with mitigation and fire risk reduction. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. Fire Risk Mitigation specific distribution miles within zones and communities in the aftermath of catastrophic wildfires. 	Holly Whitman	2/7/2023	3/10/2023	3/10/2023	https://www.pge.com/~/media/Company/Files/2023/03/10/2023-03-10-000486Set.xlsx	0	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy

Pre-Discovery 43	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_01	1	CPUC - SPD (Safety Policy Division)_01_01	<p>REFCL Inquiries:</p> <ul style="list-style-type: none"> REFCL Plot at Caltech Circuit Segment 1102113131 Describe various active settings profiles. Describe how staged fault testing is planned to be conducted. How does REFCL allow through momentary faults & when REFCL deemlines line for permanent faults. Substation Configuration - Describe any substation and/or circuit configuration reasons to require REFCL. Availability of REFCL - Describe any known barriers to increasing equipment in CA. Explain which risk drivers per Table PG&E-7.1.4 REFCL mitigates. Outline any REFCL as not covered mitigation for traveler development and confirm PG&E to improve plans to install REFCL at 2 substations per year per circuit filing. 	Wendy Al-Makad	2/23/2023	3/30/2023	3/30/2023	0	NA	8.1.8.1.3	Grid Operations and Procedures	Settings of Other Emerging Technologies (e.g., Rapid Earth Fault Current Limiters)
Pre-Discovery 44	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_01	2	CPUC - SPD (Safety Policy Division)_01_02	<p>EPSS & Supporting Technologies (DCD & Battery Voltage Detectors) Inquiries:</p> <ul style="list-style-type: none"> Explain all devices present to mitigate EPSS reliability impacts. What customer support programs (e.g., battery banks) distinct from or linked to those plans for PPSB consideration? Explain Sensitive Ground Fault settings for EPSS enabled circuit segments. Explain Divergent Conductor Detection (DCD) technology and how it handles high impedance faults with EPSS. Explain DCD 2023-2025 Tagline (e.g., 500, 400 & 250 protective devices controllers or relays) and whether they fall over all WFD and after EPSS circuits. Explain any steps to be taken. Explain how many DCD are currently installed including on top 5% risk circuit segments. Explain Partial Voltage Detector using SmartMeters and how 5% impedance DCD and EPSS. 	Wendy Al-Makad	2/23/2023	3/30/2023	3/30/2023	0	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
Pre-Discovery 45	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_01	3	CPUC - SPD (Safety Policy Division)_01_03	<p>EPSS & REFCL Inquiries:</p> <ul style="list-style-type: none"> What are advantages and disadvantages? In terms of capability, automation, safety, and reliability? Phase-to-Ground Faults vs. Conductor-to-Ground Faults - What is the risk profile of existing ignitions on PG&E's system and how does REFCL & EPSS mitigate these risks? Comparison of REFCL with EPSS & Other Mitigations - Explain how these could work together, and if possible, how qualified combined risk-reduction benefits. Compare the effectiveness of field energy for EPSS vs REFCL including for low and high impedance faults. Compare why EPSS is preferred to REFCL, but energy is less than 10% of EPSS field energy for low impedance faults. Compare the effectiveness of DCD vs REFCL on high impedance faults. 	Wendy Al-Makad	2/23/2023	3/30/2023	3/30/2023	0	NA	8.1.8.1	Grid Operations and Procedures	Equipment Settings to Reduce Wildfire Risk
Pre-Discovery 46	CPUC - SPD (Safety Policy Division)	001	CPUC - SPD (Safety Policy Division)_01	4	CPUC - SPD (Safety Policy Division)_01_04	<p>General risk reduction inquiry:</p> <ul style="list-style-type: none"> What is PG&E's goal for lightning risk reduction, particularly reduction of likelihood of ignition and also reduction of consequences, for circuits in WFD that are not underground? 	Wendy Al-Makad	2/23/2023	3/30/2023	3/30/2023	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)_01	1	Green Power Institute (GPI)_01_01	<p>Please provide PG&E's pre-Submission 2023-2025 WMP Base Plan filed on February 13, 2023, with the O&S per the 2023 WMP Guidelines and Schedule document including all attachments and associated supporting documents required for the pre-Submission 2023-2025 WMP Base Plan filing.</p>	Zoe Henrich	3/1/2023	3/14/2023	3/14/2023	0	NA	AI	AI	AI
Pre-Discovery 48	CAI&A	Set WMP-37	CAI&A_Set WMP-37_01	1	CAI&A_Set WMP-37_01	<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 2024 or 2025 that is related to your 2023 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 this date request please provide a copy as soon as possible and no later than 70 business days from the issuance of this date request.</p> <p>The request is limited to materials or documents that (1) are related to work plans, update requests, risk reduction, risk-based efficiency (RBE) calculations, cost-benefit analysis (CBA) calculations, WMP change orders, and (2) line the request for Energy Safety to provide additional details on construction activity information or statements in your WMP (and any subsequent revisions or change orders affecting your WMP).</p>	Holly Wehman	3/20/2023	4/30/2024	4/30/2024	0	NA	NA	NA	NA

Pre-Discovery 49	CaPA	Set WMP-37	CaPA_Set WMP-37	2	CaPA_Set WMP-37_O2	Provide a copy of all documents or files that are referenced in your WMP Quarterly Data Reports and submitted to Energy Safety (including but not limited to all PDFs, spreadsheet files, non-spreadsheet files, and confidential attachments), within one business day of the document's submission to Energy Safety.	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 the request as the information requested is vague, ambiguous, and overbroad. Lastly, PG&E objects to the 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. <i>Ex. v. Enron Mobil Corp.</i> , 124 Cal.App.4th 1315, 1328 (2004). <i>Cole v. Proc.</i> , 3 (2020-06/01). Nonetheless, and without waiving these objections, PG&E responds as follows: 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, it may not always be possible to provide the information sought within the requested timeframe. In these instances, we will provide the requested information as soon as it is reasonably possible. Additionally, with the exception of confidential and sensitive data, please note that we post our material-related submissions on our website, www.pge.com/disclosurepage , generally on the same business day that the documents are provided to Energy Safety. Therefore, all submissions to Energy Safety are posted to the internet through the Energy Safety website, http://www.energy.safety.ca.gov , and are nearly always publicly available within one business day of submission. Public removal notifications of the availability of these documents are sent to all parties who subscribe to the service for this project.	Holly Whiteman	3/09/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	0	NA	NA	NA	NA
Pre-Discovery 50	CaPA	Set WMP-37	CaPA_Set WMP-37	3	CaPA_Set WMP-37_O3	Provide a copy to Cal Advocates of all your confidential responses to WMP discovery requests, on the same business day that you send the documents to the issuer of the discovery requests. This includes: a) Confidential responses to WMP discovery requests issued by Energy Safety. b) Confidential responses to WMP discovery requests issued by other entities.	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 the request as the information requested is vague, ambiguous, and overbroad. Lastly, PG&E objects to the 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. <i>Ex. v. Enron Mobil Corp.</i> , 124 Cal.App.4th 1315, 1328 (2004). <i>Cole v. Proc.</i> , 3 (2020-06/01). Nonetheless, and without waiving these objections, PG&E responds as follows: 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, it may not always be possible to provide the information sought within the requested timeframe. In these instances, we will provide the requested information as soon as it is reasonably possible.	Holly Whiteman	3/09/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	0	NA	NA	NA	NA
Pre-Discovery 51	CaPA	Set WMP-38	CaPA_Set WMP-38	1	CaPA_Set WMP-38_O1	Provide an Excel table of all distribution circuit-breakers existing as of January 1, 2024 (see notes) that includes the following information in separate columns: If PG&E is unable to provide some or 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. a) Circuit-segment name b) Circuit name c) Circuit ID number d) Total circuit miles e) Circuit miles in Non-HFTD f) Circuit miles in Other HFTD g) Circuit miles in HFTD Tier 2 h) Circuit miles in HFTD Tier 3 i) Circuit voltage j) Total customer-minutes of de-energization on the circuit due to fault-clear settings in 2023 (sum of customer-minutes across all PG&E events) k) Total customer-minutes of de-energization on the circuit due to fault-clear settings in 2023 (sum of customer-minutes across all PG&E events) l) Number of covered conductor installed in Non-HFTD in 2023 m) Miles of covered conductor installed in Non-HFTD in 2023 n) Number of poles replaced in HFTD Tier 2 in 2023 o) Miles of covered conductor installed in HFTD Tier 2 in 2023 p) Number of poles replaced in HFTD Tier 3 in 2023 q) Miles of covered conductor installed in HFTD Tier 3 in 2023 r) Number of poles replaced in HFTD Tier 2 in 2023 s) Miles of underground conductor installed in Non-HFTD in 2023 t) Number of underground conductor installed in Other HFTD in 2023 u) Miles of underground conductor installed in HFTD Tier 2 in 2023 v) Miles of underground conductor installed in HFTD Tier 3 in 2023 w) Miles of LDCAR inspection in Non-HFTD in 2023 x) Miles of LDCAR inspection in HFTD Tier 2 in 2023 y) Miles of LDCAR inspection in HFTD Tier 3 in 2023	Holly Whiteman	3/09/2023	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	0	NA	8	Section 8.1.3 - Asset Inspection	8.1.3.2 Asset Inspections - Distribution		
Pre-Discovery 52	CaPA	Set WMP-38	CaPA_Set WMP-38	2	CaPA_Set WMP-38_O2	Provide an Excel table of all transmission circuits existing as of January 1, 2024 (see notes) that includes the following information in separate columns: a) Circuit name b) Circuit ID number c) Total circuit miles d) Circuit miles in Non-HFTD e) Circuit miles in Other HFTD f) Circuit miles in HFTD Tier 2 g) Circuit miles in HFTD Tier 3 h) Circuit voltage i) Total customer-minutes of de-energization on the circuit due to fault-clear settings in 2023 (sum of customer-minutes across all PG&E events) j) Number of support structures replaced in Non-HFTD in 2023 k) Number of support structures replaced in Other HFTD in 2023 l) Number of support structures replaced in HFTD Tier 2 in 2023 m) Miles of LDCAR inspection in Non-HFTD in 2023 n) Miles of LDCAR inspection in Other HFTD in 2023 o) Miles of LDCAR inspection in HFTD Tier 2 in 2023 p) Number or miles of detailed aerial inspections in Non-HFTD in 2023 (specify units) q) Number or miles of detailed aerial inspections in Other HFTD in 2023 (specify units) r) Number or miles of detailed aerial inspections in HFTD Tier 2 in 2023 (specify units) s) Number or miles of detailed aerial inspections in HFTD Tier 3 in 2023 (specify units) t) Number of detailed climbing inspections in Non-HFTD in 2023 u) Number of detailed climbing inspections in Other HFTD in 2023 v) Number of detailed climbing inspections in HFTD Tier 2 in 2023 w) Number of detailed climbing inspections in HFTD Tier 3 in 2023 x) Number of detailed ground-based inspections in Non-HFTD in 2023 y) Number of detailed ground-based inspections in Other HFTD in 2023 z) Number of detailed ground-based inspections in HFTD Tier 2 in 2023 aa) Number of detailed ground-based inspections in HFTD Tier 3 in 2023	Holly Whiteman	3/09/2023	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	0	NA	8	Section 8.1.3 - Asset Inspection	8.1.3.1 Asset Inspections - Transmission		
Pre-Discovery 53	CaPA	Set WMP-38	CaPA_Set WMP-38	3	CaPA_Set WMP-38_O3	Provide an Excel table of all distribution circuits existing as of January 1, 2023 (see notes) that were removed or decommissioned in 2023, either partially or entirely. This includes permanent removal, removal of overhead lines that were moved underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns: a) Circuit name b) Circuit ID number c) Circuit miles removed or decommissioned in Non-HFTD d) Circuit miles removed or decommissioned in Other HFTD e) Circuit miles removed or decommissioned in HFTD Tier 2 f) Circuit miles removed or decommissioned in HFTD Tier 3 g) Reason(s) for removal or decommissioning	Please see attachment "WMP-Discovery2023-2025_DR_CalAdvocates_038-Q00AAN01.xlsx" which provides information regarding removal of primary distribution lines in HFTD in 2023, as well as the underground miles installed, which is a subset of the requested information available at the time. This response is generally consistent with the one we provided last year in response to the same question (CalAdvocates PG&E-202306W-03). The information provided is specific to projects within PG&E's 2023-2025 WMP Initiative (WMI) (System Reliability). However, there are additional circuits that were removed or decommissioned, either partially or entirely, outside of the System Reliability program (e.g., line maintenance and conductor). Historically, PG&E did not track line removals when installing overhead to underground, including secondary service, or removing line non-HFTD. However, based on the 2023 GRC Decision (D) 23-1-089 OP23, PG&E is preparing to report the 2023 miles of overhead lines removed during underground projects in the annual System Reliability Accountability Report, which will be distributed by Energy Safety in July 1, 2024. For transparency in this response, we have included the Underground miles installed by project in 2023, a conversion factor of one (1) mile of overhead miles removed to 1.25 miles of underground installed may be applied to estimate the overhead miles removed. This conversion factor was adopted by the CPUC in GRC (D) 23-1-089, Conclusion A (see page 862). Below we provide additional information to clarify the data provided in the attachment in response to the request: a) Circuit name: please see column C. b) Circuit ID: whether there are column D. c) Distribution circuit miles removed or decommissioned in non-HFTD Area: column E includes the HFTD Tier by project, including Tier 1 (see definition table for the definitions of the HFTD tiers included). Column G includes the associated removed circuit miles, and column H includes the underground miles installed (see note above regarding the conversion to underground conversion factor). d) Distribution circuit miles removed or decommissioned in other HFTD: column E includes the HFTD Tier by project, including HFTD Buffer Zone and Zone 1 (see definition table for the definitions of the HFTD tiers included). Column G includes the associated removed circuit miles, and column H includes the underground miles installed (see note above regarding the conversion to underground conversion factor).	Holly Whiteman	3/09/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3.2 Asset Inspections - Distribution
Pre-Discovery 54	CaPA	Set WMP-38	CaPA_Set WMP-38	4	CaPA_Set WMP-38_O4	Provide an Excel table of all transmission circuits existing as of January 1, 2023 (see notes) that were removed or decommissioned in 2023, either partially or entirely. This includes permanent removal, removal of overhead lines that were moved underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns: a) Circuit name b) Circuit ID number c) Circuit miles removed or decommissioned in Non-HFTD d) Circuit miles removed or decommissioned in Other HFTD e) Circuit miles removed or decommissioned in HFTD Tier 2 f) Circuit miles removed or decommissioned in HFTD Tier 3 g) Reason(s) for removal or decommissioning	Please see attachment "WMP-Discovery2023-2025_DR_CalAdvocates_038-Q00AAN01.xlsx" for the requested information. GENERAL STATEMENT REGARDING RESPONSE TO QUESTIONS THROUGHOUT IN response to questions 1 through 4 of the set of data requests, PG&E is providing non-confidential data from the 2023 Office of Energy Reliability and Safety (Energy Safety) Geographic Information System (GIS) Data Standard submission, as authorized by the responding party. Due to the high volume of records in this submission (approximately 13.5 million records each quarter), individual record review for confidential data is neither feasible nor practical. The feature classes and related tables included in the submission are not static and change each quarter. Additionally, the descriptive aspect of feature class data and the generalized presentation of the data creates complexity in identifying the confidentiality of individual records and records including data for error. In preparing this submission, PG&E has made every effort to identify and redact confidential data, but it may not be possible to identify and redact all confidential records. PG&E respectfully requests that MGRA use the data for internal purposes only and restrict access to a need-to-know basis. In response to this request, PG&E is providing Camera and Weather Station data, as delivered in the 2023 Energy Safety GIS Data Standard Submission. PG&E is also providing non-confidential data from the Support Structure feature class. As requested, WMP-Discovery2023-2025_DR_MGRA_008-0001 Page 2 PG&E is not providing data for the Cause Factor class in the data in confidential critical energy infrastructure information (CEEI). Please see attachment "WMP-Discovery2023-2025_DR_MGRA_008-0001Attachment 1" for the data requested in response to this data request.	Holly Whiteman	3/09/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3.1 Asset Inspections - Transmission
Pre-Discovery 55	MGRA	008	MGRA_Data_Request No. 8	1	MGRA_Data_Request No. 8_O1	GIS Data: Please provide the GIS data set provided to the Office of Energy Infrastructure Safety by Q1-Q4 2023. Please provide any confidential attributes that may have been added to the historical records. Please provide for Asset Point data for Camera, Fuse, Support Structure, and Weather Station.	GENERAL STATEMENT REGARDING RESPONSE TO QUESTIONS THROUGHOUT IN response to questions 1 through 4 of the set of data requests, PG&E is providing non-confidential data from the 2023 Office of Energy Reliability and Safety (Energy Safety) Geographic Information System (GIS) Data Standard submission, as authorized by the responding party. Due to the high volume of records in this submission (approximately 13.5 million records each quarter), individual record review for confidential data is neither feasible nor practical. The feature classes and related tables included in the submission are not static and change each quarter. Additionally, the descriptive aspect of feature class data and the generalized presentation of the data creates complexity in identifying the confidentiality of individual records and records including data for error. In preparing this submission, PG&E has made every effort to identify and redact confidential data, but it may not be possible to identify and redact all confidential records. PG&E respectfully requests that MGRA use the data for internal purposes only and restrict access to a need-to-know basis. In response to this request, PG&E is providing Camera and Weather Station data, as delivered in the 2023 Energy Safety GIS Data Standard Submission. PG&E is also providing non-confidential data from the Support Structure feature class. As requested, WMP-Discovery2023-2025_DR_MGRA_008-0001 Page 2 PG&E is not providing data for the Cause Factor class in the data in confidential critical energy infrastructure information (CEEI). Please see attachment "WMP-Discovery2023-2025_DR_MGRA_008-0001Attachment 1" for the data requested in response to this data request.	Joseph Michalek	3/21/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 56	MGRA	008	MGRA_Data_Request No. 8	2	MGRA_Data_Request No. 8_O2	Provide Asset Line data for Transmission Line (as permitted - non-confidential), Primary Distribution Line, and Secondary Distribution Line.	GENERAL STATEMENT REGARDING RESPONSE TO QUESTIONS THROUGHOUT IN response to questions 1 through 4 of the set of data requests, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line feature classes in the 2023 Office of Energy Reliability and Safety (Energy Safety) Geographic Information System (GIS) Data Standard Submission. As requested, PG&E is providing the requested data for the Cause Factor class in the data in confidential critical energy infrastructure information (CEEI). Please see attachment "WMP-Discovery2023-2025_DR_MGRA_008-0001Attachment 1" for the data requested in response to this data request.	Joseph Michalek	3/21/2023	4/30/2024	4/30/2024	http://www.pge.com/energy/safety/disclosure safety@pge.com https://www.pge.com/disclosure	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22-33 Progress on Filing Asset Inventory Data Gaps

Pre-Discovery 70	CaPA	Set WMP-30	CaPA_Set WMP-30	9	CaPA_Set WMP-30_Q9	<p>Please see attachment "WMP-Discovery2023-2025_DR_CaPAcircuits_036-036A363-CONF.pdf" for a list of PG&E's system hardening projects for the years 2023-2025. Please note that we combined years 2023 and 2024 as the projects associated with each year are all being finalized. The requested information can be found in the following locations:</p> <ul style="list-style-type: none"> a) See column A (Category) b) See column D (MAT Codes) c) See column E (Category) d) See column M (Circuit ID) and column O (Circuit Name) e) See column N (Circuit Protection Zone) f) See column H (Applicable risk levels) for the risk model used at the time the project was scheduled for the program and see columns AK-AZ for the current applicable risk levels by year and mitigation type (same as a project's applicable risk model) g) See column I (Construction Start Date). This date represents the time construction was initiated on the project, recognizing there are additional phases prior to the 2025-2026 portfolio as it is primarily being finalized. Therefore, construction start and end dates are not applicable and are not to be input. h) See column J (E&C Construction ID). This year represents when the newly installed underground lines are forecasted to be identified and the project is considered complete. Actual construction and dates may shift through the lifecycle of a project based on project dependencies. As a result, the 2023-2025 portfolio is still being finalized. Therefore, construction start and end dates are not applicable and are subject to change. i) See column AG (QH - 2023-2026 Forecast Miles) for circuit miles of planned overhead hardening in 2023-2026. j) See column AH (LDS - 2023-2026 Forecast Miles) for circuit miles of planned underground hardening in 2023-2026. k) This information is not provided in this response because PG&E currently does not have complete accurate data to provide the total overhead circuit miles removed relating to the underlying project. This information is actively being completed and will be added to the response as it becomes available. l) See column AB (Table 1 below) for PG&E's system hardening projects for the years 2023-2025. Provided are both the target miles and the actual or projected miles for each year. Please note that the current System Hardening execution (WMP initiative GH-41) includes planned miles exceeding the annual targets for 2024 and 2025 to account for project dependencies and construction lags that may arise and delay some projects. PG&E intends to manage the system hardening portfolio to meet or nearly exceed the target miles. Therefore, the projected miles include below 2024 and 2025 are equivalent to the target. m) Additionally, the 2022 actual miles have been separated by MAT codes: <ul style="list-style-type: none"> - 08W3AC: System hardening projects funded by the CFC WMBIA. - Non-08W3AC: System hardening projects in an FT/D that are funded by other programs outside of the CFC Wildlife Mitigation Balancing Account (WMBIA) (i.e., work requested by others (WFOU, etc. facilities, Rule 20). n) Explanations: Please see Table 2 below for details related to 2023-2025 system hardening. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	0	NA	2023 WMP Section 8.1.2.5	System Hardening	NA
Pre-Discovery 71	CaPA	Set WMP-30	CaPA_Set WMP-30	10	CaPA_Set WMP-30_Q10	<p>For each year 2023-2025 WMP system hardening initiatives, please provide disaggregated information related to expenditures and miles removed in the attached table, CaPAcircuits-PGE-2023WMP-03 Attachment 2. Add columns as needed:</p>	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	0	NA	2023 WMP Section 8.1.2.5	System Hardening	NA
Pre-Discovery 72	CaPA	Set WMP-30	CaPA_Set WMP-30	11	CaPA_Set WMP-30_Q11	<p>On page 408 of PG&E's 2023-2025 WMP Plan, January 6, 2024, PG&E provided Table PG&E-1.2.3, shown below. Please provide a completed version of the table (including an Excel format with actuals from 2023 and updated estimates for 2024, 2025, and 2026).</p>	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	1	NA	2023 WMP Section 8.1.2.5	System Hardening	NA
Pre-Discovery 73	CaPA	Set WMP-30	CaPA_Set WMP-30	12	CaPA_Set WMP-30_Q12	<p>On October 3, 2023, the Wildlife Safety Advisory Board held a meeting. Four documents related to PG&E's ground-level distribution system pilot are listed in the meeting materials (see https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf). Please provide confidential (i.e., unselected) copies of these four documents:</p> <ul style="list-style-type: none"> a) Experimental Installation Letter b) Project Final Scope c) Project Information d) Pilot Construction Sketch 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	4	NA	2023 WMP Section 8.1.2.5	System Hardening	NA
Pre-Discovery 74	CaPA	Set WMP-30	CaPA_Set WMP-30	13	CaPA_Set WMP-30_Q13	<p>Identify any ignitions in 2023 associated with assets where you had an existing corrective notification at the time of the system. Please provide a representative listing each such ignition (see cover) with the following information in separate columns:</p> <ul style="list-style-type: none"> a) Ignition ID b) Date of ignition c) Cause of ignition d) Type of asset associated with the ignition e) Asset ID f) Number of structures burned, if any g) Number of ignites associated with ignition, if any h) Asset ID of asset associated with ignition i) Circuit ID number of circuit associated with ignition j) Notification number(s) for the violation maintenance log on the asset in question. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	1	NA	8.0 Wildlife Mitigators	Section 8.3 - Situational Awareness and Forecasting	8.3.4.1 Existing Ignition Detection Sensors and Systems
Pre-Discovery 75	CaPA	Set WMP-30	CaPA_Set WMP-30	14	CaPA_Set WMP-30_Q14	<p>Identify any ignitions in 2023 associated with assets where you had an existing corrective notification at the time of the system. Please provide a representative listing each such ignition (see cover) with the following information in separate columns:</p> <ul style="list-style-type: none"> a) Ignition ID b) Date of ignition c) Cause of ignition d) Type of asset associated with the ignition e) Asset ID f) Number of structures burned, if any g) Number of ignites associated with ignition, if any h) Asset ID of asset associated with ignition i) Circuit ID number of circuit associated with ignition j) Notification number(s) for the violation maintenance log on the asset in question. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	4	NA	8.0 Wildlife Mitigators	Section 8.3 - Situational Awareness and Forecasting	8.3.4.1 Existing Ignition Detection Sensors and Systems
Pre-Discovery 76	CaPA	Set WMP-30	CaPA_Set WMP-30	15	CaPA_Set WMP-30_Q15	<p>On page 548 of PG&E's 2023-2025 WMP Plan, January 6, 2024, PG&E stated that it was revising its safety utility assessment procedure (TD-8123P-200) and requested to update the procedure by the end of 2023:</p> <ul style="list-style-type: none"> a) Has PG&E published the revised TD-8123P-200 procedure? b) Has PG&E published the revised TD-8123P-200 procedure? c) If the answer to part (a) is yes, briefly describe the substance of the changes to the procedure. d) If the answer to part (a) is yes, please provide a copy of the updated version of TD-8123P-200 procedure. e) If the answer to part (a) is no, please explain the delay. f) If the answer to part (a) is no, please state when PG&E currently expects to publish the revised TD-8123P-200 procedure. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	1	NA	8.0 Wildlife Mitigators	Section 8.1.7 - Open Work Orders	8.1.7.2 Open Work Orders - Distribution Tags
Pre-Discovery 77	CaPA	Set WMP-30	CaPA_Set WMP-30	16	CaPA_Set WMP-30_Q16	<p>In response to data request CaPAcircuits-PGE-2023WMP-10 question 15, April 29, 2023, PG&E stated that it was actively analyzing the effectiveness of both covered conductor and bus conductor in combination with EPDS and DCOPV. PG&E stated that it anticipated completing the analysis by the end of 2023:</p> <ul style="list-style-type: none"> a) Has PG&E completed the analysis mentioned above? b) If the answer to part (a) is yes, please provide a copy of your report or other output from the analysis. 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 complete this analysis. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	0	NA	8.1.2	Grid Design and System Hardening	Various
Pre-Discovery 78	CaPA	Set WMP-30	CaPA_Set WMP-30	17	CaPA_Set WMP-30_Q17	<p>In response to data request CaPAcircuits-PGE-2023WMP-27 question 5, August 18, 2023, PG&E stated that it is preparing to complete its Substation Animal Abatement/Electromechanics Study in partnership with Electric Power Research Institute by Q1 of 2024:</p> <ul style="list-style-type: none"> a) Has PG&E completed the Substation Animal Abatement/Electromechanics Study? b) If the answer to part (a) is yes, please provide a copy of your reports or other output from the Substation Animal Abatement/Electromechanics Study. 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 complete the Substation Animal Abatement/Electromechanics Study. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	0	NA	8.1.2.1.2.2	Grid Design and System Hardening	Other Technologies and Systems - Substation Animal Abatement
Pre-Discovery 79	CaPA	Set WMP-30	CaPA_Set WMP-30	18	CaPA_Set WMP-30_Q18	<p>In response to data request CaPAcircuits-PGE-2023WMP-27 question 6, August 18, 2023, PG&E stated that it was finalizing a study to assess the recorded reliability improvements at locations that have been undergrounded and/or have been hardened with covered conductor. PG&E stated that it anticipated completing the analysis in October of 2023:</p> <ul style="list-style-type: none"> a) Has PG&E completed the study mentioned above? b) If the answer to part (a) is yes, please provide a copy of your reports or other output from the study. 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 complete this study. 	<p>Healy Wetman</p> <p>3/22/2024</p> <p>4/5/2024</p> <p>4/5/2024</p> <p>https://www.pge.com/assets/documents/external/2023-2025-wmp-discovery-036-036a363-CONF.pdf</p>	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-16 Progress and Updates on Undergrounding and Risk Prioritization

Pre-Discovery 80	CA/PA	Set WMP-30	CaPA_Sat WMP-30	19	CaPA_Sat WMP-30_Q19	In response to data request CaliforniaPGE-2023WMP-30 question 6 September 27, 2023. PGEAE stated that it responded to publish its 2023 Electric Asset Management Plan by the end of 2023. a) Has PGEAE 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 PGEAE currently expects to publish the 2023 Electric Asset Management Plan.	Holly Whiteman	3/22/2024	4/5/2024	4/5/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	NA	NA	NA	
Pre-Discovery 80	CA/PA	Set WMP-30	CaPA_Sat WMP-30	19REV	CaPA_Sat WMP-30_Q19REV	In response to data request CaliforniaPGE-2023WMP-30 question 6 September 27, 2023. PGEAE stated that it responded to publish its 2023 Electric Asset Management Plan by the end of 2023. a) Has PGEAE 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 PGEAE currently expects to publish the 2023 Electric Asset Management Plan.	Holly Whiteman	3/22/2024	6/14/2024			0	NA	NA	NA	NA	
Pre-Discovery 81	CA/PA	Set WMP-30	CaPA_Sat WMP-30	20	CaPA_Sat WMP-30_Q20	In response to data request CaliforniaPGE-2023WMP-30 question 6 September 27, 2023. PGEAE stated the following: "We will evaluate the history of responses to the down conditions in the HFR/HFT, occurring during the traditional peak and off-peak seasons of December/May and November/June going back to 2020. We can compare that analysis by December 31, 2023." a) Has PGEAE 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 PGEAE currently expects to complete this analysis.	Holly Whiteman	3/22/2024	4/5/2024	4/5/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	NA	8.2.4	Vegetation Management and Inspections	Fall-in Migration
507	CA/PA	Set WMP-40	CaPA_Sat WMP-40	1	CaPA_Sat WMP-40_Q1	PGEAE states on page 23 of its 2025 WMP Update regarding its workplan for undergrounding and covered conductor projects: PGEAE is currently refining our workplan for both overhead hardening and undergrounding projects through the end of the CRC period (2025) to account for the diversion provided in D.23-11-069. Additionally, PGEAE is Base 2023-2025 WMP of intentionally holding additional miles to be completed in 2023 and 2024. Some of the projects included in this workplan may not be completed in 2023 and 2024. Additional projects may be identified and added to the workplan going forward for potential completion between 2023 and 2024. a) Please identify PGEAE's intended covered conductor recovery for the above-mentioned undergrounding projects not completed in the 2023-2025 timeframes. b) Please identify PGEAE's intended covered conductor recovery for the above-mentioned overhead hardening projects not completed in the 2023-2025 timeframes. c) Please identify PGEAE's intended covered conductor recovery for the above-mentioned "additional projects" that may be identified and added to the workplan.	Miss Gordon	4/5/2024	4/10/2024	4/10/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	8.1.2	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment	
508	CA/PA	Set WMP-40	CaPA_Sat WMP-40	2	CaPA_Sat WMP-40_Q2	PGEAE states on page 23 of its 2025 WMP Update regarding its workplan for undergrounding projects: PGEAE is currently refining our workplan for both overhead hardening and undergrounding projects through the end of the CRC period (2025) to account for the diversion provided in D.23-11-069. Additionally, PGEAE is Base 2023-2025 WMP of intentionally holding additional miles to be completed in 2023 and 2024. Some of the projects included in this workplan may not be completed in 2023 and 2024. Additional projects may be identified and added to the workplan going forward for potential completion between 2023 and 2024. a) Please identify PGEAE's intended covered conductor recovery for the above-mentioned undergrounding projects not completed in the 2023-2025 timeframes. b) Please identify PGEAE's intended covered conductor recovery for the above-mentioned overhead hardening projects not completed in the 2023-2025 timeframes. c) Please identify PGEAE's intended covered conductor recovery for the above-mentioned "additional projects" that may be identified and added to the workplan.	Miss Gordon	4/5/2024	4/10/2024	4/10/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment	
509	CA/PA	Set WMP-40	CaPA_Sat WMP-40	3	CaPA_Sat WMP-40_Q3	PGEAE states on page 23 of its 2025 WMP Update regarding its workplan for covered conductor projects: PGEAE is currently refining our workplan for both overhead hardening and undergrounding projects through the end of the CRC period (2025) to account for the diversion provided in D.23-11-069. Additionally, PGEAE is Base 2023-2025 WMP of intentionally holding additional miles to be completed in 2023 and 2024. Some of the projects included in this workplan may not be completed in 2023 and 2024. Additional projects may be identified and added to the workplan going forward for potential completion between 2023 and 2024. a) Please identify PGEAE's intended covered conductor recovery for the above-mentioned undergrounding projects not completed in the 2023-2025 timeframes. b) Please identify PGEAE's intended covered conductor recovery for the above-mentioned overhead hardening projects not completed in the 2023-2025 timeframes. c) Please identify PGEAE's intended covered conductor recovery for the above-mentioned "additional projects" that may be identified and added to the workplan.	Miss Gordon	4/5/2024	4/10/2024	4/10/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1 Covered Conductor Installation - Distribution	
510	CA/PA	Set WMP-40	CaPA_Sat WMP-40	4	CaPA_Sat WMP-40_Q4	PGEAE states on page 25 of its 2025 WMP Update: "PGEAE proposes to add a 2025 target (System Hardening - Transmission Conductor Segment Replacement (D31-1)) to perform conductor segment replacement on two transmission lines." a) Has the administrative work required and authorized in PGEAE's Fall Year 2023 GRC? b) If yes, please provide the exhibit and page number in PGEAE's Fall Year 2023 GRC history that discusses this work as well as the relevant Audit Activity Type (AA) codes or codes. c) If yes, please provide the final authorized funding amount for this program as set forth in D.23-11-069, with a column in the relevant Capital Budget Addendum.	Miss Gordon	4/5/2024	4/10/2024	4/10/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1.1 Transmission Conductor Hardening - Distribution	
511	CA/PA	Set WMP-40	CaPA_Sat WMP-40	5	CaPA_Sat WMP-40_Q5	PGEAE states on page 3 of its 2025 WMP Update that it is introducing a new evolution of its Wildfire Distribution Risk Model (WDRM), called WDRM v10. It states: "The update from the WDRM v9 was expected to inform some high-potential, short-cycle work in 2023 and other risk-prioritized long-cycle work in 2024 and beyond." a) Please identify each WMP initiative for which WDRM v10 is expected to "inform risk-prioritized long-cycle work in 2023 and beyond." b) When will WDRM v10 begin to inform the scoping and execution of undergrounding projects? c) When does PGEAE expect to begin constructing undergrounding projects that are accepted using WDRM v10? d) When will WDRM v10 begin to inform scoping and execution of covered conductor projects? e) When does PGEAE expect to begin constructing covered conductor projects that are accepted using WDRM v10?	Miss Gordon	4/5/2024	4/10/2024	4/12/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models	
512	CA/PA	Set WMP-40	CaPA_Sat WMP-40	6	CaPA_Sat WMP-40_Q6	PGEAE states on page 3 of its 2025 WMP Update that it is introducing a new evolution of its Wildfire Distribution Risk Model (WDRM), called WDRM v10. It states: "The update from the WDRM v9 was expected to inform some high-potential, short-cycle work in 2023 and other risk-prioritized long-cycle work in 2024 and beyond." a) Please identify each WMP initiative for which WDRM v10 is expected to "inform risk-prioritized long-cycle work in 2023 and beyond." b) When will WDRM v10 begin to inform the scoping and execution of undergrounding projects? c) When does PGEAE expect to begin constructing undergrounding projects that are accepted using WDRM v10? d) When will WDRM v10 begin to inform scoping and execution of covered conductor projects? e) When does PGEAE expect to begin constructing covered conductor projects that are accepted using WDRM v10?	Miss Gordon	4/5/2024	4/10/2024	4/12/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models	
513	CA/PA	Set WMP-40	CaPA_Sat WMP-40	7	CaPA_Sat WMP-40_Q7	PGEAE states on page 51 of its 2025 WMP Update that it is introducing a new evolution of its Wildfire Distribution Risk Model (WDRM), called WDRM v10. It states: "The update from the WDRM v9 was expected to inform some high-potential, short-cycle work in 2023 and other risk-prioritized long-cycle work in 2024 and beyond." a) Please identify each WMP initiative for which WDRM v10 is expected to "inform risk-prioritized long-cycle work in 2023 and beyond." b) When will WDRM v10 begin to inform the scoping and execution of undergrounding projects? c) When does PGEAE expect to begin constructing undergrounding projects that are accepted using WDRM v10? d) When will WDRM v10 begin to inform scoping and execution of covered conductor projects? e) When does PGEAE expect to begin constructing covered conductor projects that are accepted using WDRM v10?	Miss Gordon	4/5/2024	4/10/2024	4/10/2024	http://www.pge.com/news/press-releases/2024/04/05/pge-releases-2023-electric-asset-management-plan	0	NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Updating Grid Hardening Decision Matrix	

514	CaPA	Set WMP#1	CaPA_Set WMP#1	1	CaPA_Set WMP#1_01	<p>There are 23 event probability models from WORM v4 that produce ignition risk values - Animal - Bird - Animal - Bunker - Animal - Other - Capacitor Bank - CPO - Fuse - Primary Conductor - Line Size - Primary Conductor - Wire Down - Primary Conductor - Other - Secondary Conductor - Support Structure - Loading - Support Structure - Equipment - Station - Third Party - Ballast - Third Party - Vehicle - Third Party - Other - Transformer - Equipment - Transformer - Loading - Vegetation - Branch - Vegetation - Trunk - Vegetation - Other - Voltage Regulator - Other - Equipment/Response to Faults (B) through (F) of this request are described in the table below.</p> <p>Category / Description Ignition Risk Risk Score Category / Description Ignition Risk Risk Score Category / Description Ignition Risk Risk Score</p> <p>a) Please list all distinct risk scores generated by PGE's WORM v4. For example, WORM v4 generated 17 different risk scores. 4 b) For each risk score in part (a), please provide a category or brief description of the type of risk the score represents. c) For each risk score in part (a), please provide a brief explanation of how PGE intends to use that risk score. d) For each risk score in part (a), please list PGE wildfire mitigation initiatives that are informed by that risk score if PGE expects to utilize a risk score to inform mitigation in the future, please so note. e) For each risk score in part (a), please list the most granular level available for that risk score. For example, in WORM v3, the most granular level available would be the risk scores associated with individual 100m x 100m cells. f) For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation initiatives e.g. circuit segment, circuit, individual asset, individual mile, etc.)</p>	Holly Whiteman	4/5/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
515	CaPA	Set WMP#1	CaPA_Set WMP#1	2	CaPA_Set WMP#1_02	<p>These are 23 event probability models from WORM v4 at a circuit segment level that produce ignition risk values - Animal - Total Risk - System Hardening - and - Vegetation Responses to parts (B) through (F) of this request are described in the table below:</p> <p>Category / Description Ignition Risk Risk Score Category / Description Ignition Risk Risk Score Category / Description Ignition Risk Risk Score</p> <p>a) Please list all composite (or aggregate) risk scores generated by PGE's WORM v4. For example, WORM v3 generated five composite risk scores. b) For each risk score in part (a), please provide a category or brief description of the type of risk the score represents. c) For each risk score in part (a), please provide a brief explanation of how PGE intends to use that risk score. d) For each risk score in part (a), please list PGE wildfire mitigation initiatives that are informed by that risk score if PGE expects to utilize a risk score to inform mitigation in the future, please so note. e) For each risk score in part (a), please list the most granular level available for that risk score. f) For each risk score in part (a), please state the granularity at which the risk score is used to inform wildfire mitigation initiatives e.g. circuit segment, circuit, individual asset, individual mile, etc.)</p>	Holly Whiteman	4/5/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
516	CaPA	Set WMP#1	CaPA_Set WMP#1	3	CaPA_Set WMP#1_03	<p>Questions 3 and 4 refer to the risk scores generated from WORM v4. This should be understood to refer to PGE's responses to questions 1 and 2 above. If PGE possesses general data that is not in the specific format requested in questions 3 and 4, but that PGE believes substantially contains the information requested in questions 3 and 4, please contact the requester to discuss the format of your response.</p> <p>Question 3 Please provide a GIS file that details the most granular level (as discussed in questions 1(a) and 2(b)) available for each risk score identified in questions 1(a) and 2(b). This file should contain the following: a) Geographic features detailing the relevant geometry for each risk score. This may be polygons that depict "Yards", lines that depict circuit segments, points that depict assets, or other geometry that best suits the relevant risk scores. If multiple risk scores share geometry (e.g., multiple risk scores that are calculated at the "Yard" level, there is no need to include multiple layers that depict the same physical geometry. b) For each geographic feature, include the circuit name as an attribute. c) For each geographic feature, include the circuit segment name as an attribute. d) For each geographic feature, include the circuit segment name as an attribute. e) An asset ID, individual asset identification for each geographic feature (e.g., asset ID, substation name, etc.)</p>	Holly Whiteman	4/5/2024	4/26/2024				NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
517	CaPA	Set WMP#1	CaPA_Set WMP#1	4	CaPA_Set WMP#1_04	<p>Please provide a GIS file that details the risk scores at the same granularity that is currently used to inform wildfire mitigation measures (as discussed in questions 1(b) and 2(b)). This file should contain the following: a) Geographic features detailing the relevant geometry for each risk score. This may be polygons that depict "Yards", lines that depict circuit segments, points that depict assets, or other geometry that best suits the relevant risk scores. If multiple risk scores share geometry (e.g., multiple risk scores that are calculated at the "Yard" level, there is no need to include multiple layers that depict the same physical geometry. b) For each geographic feature, include the circuit name as an attribute. c) For each geographic feature, include the circuit segment name as an attribute. d) For each geographic feature, include the circuit segment name as an attribute. e) An asset ID, individual asset identification for each geographic feature (e.g., asset ID, substation name, etc.)</p>	Holly Whiteman	4/5/2024	4/26/2024				NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
518	CaPA	Set WMP#1	CaPA_Set WMP#1	5	CaPA_Set WMP#1_05	<p>Question 5 refers to the risk scores generated from WORM v4. This should be understood to refer to PGE's responses to questions 1 and 2 above. Please provide a spreadsheet that (a) lists each circuit segment that is included in the Wildfire Distribution Risk Model v4. This spreadsheet should include, at minimum, the following columns: a) Name or ID number of each circuit segment. b) Circuit name for the circuit that each segment is part of. c) Circuit ID for the circuit that each segment is part of. d) Voltage level. e) The most granular level of the circuit segment (as applicable, e.g., for street-based sub-models). f) The average risk (when) associated with each asset along the circuit segment (as applicable, e.g., per street-based sub-models). g) The asset name or ID of the circuit segment (as applicable, e.g., for street-based sub-models). h) The risk values) associated with each asset along the circuit segment (as applicable, e.g., for street-based sub-models).</p> <p>a) - Please see attachment "WMP-Downstream2023-2025_DR_Calculations_04-10-2024.xlsx" for the requested information. ATTACHMENT WMP-Downstream2023-2025_DR_Calculations_04-10-2024.xlsx</p>	Holly Whiteman	4/5/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	1	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
519	CaPA	Set WMP#1	CaPA_Set WMP#1	6	CaPA_Set WMP#1_06	<p>Pages 5.11 of PGE's 2023 WMP Update discuss version 4 of PGE's Wildfire Consequence Model. Please provide a GIS file that details the most granular level available for the Wildfire Consequence Model version 4. This file should contain the following: a) Geographic features detailing the most granular level available for consequence (B) in Cal Adapters, understanding that the consequence model uses "yards". b) For each geographic feature, please include all relevant consequence values (if there are multiple) as attributes.</p>	Holly Whiteman	4/5/2024	4/26/2024				NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
520	CaPA	Set WMP#1	CaPA_Set WMP#1	7	CaPA_Set WMP#1_07	<p>Please provide a GIS file that details the most granular level available for the Wildfire Consequence Model version used in WORM v4. This file should contain the following: a) Geographic features detailing the most granular level available for consequence (B) in Cal Adapters, understanding that the consequence model uses "yards". b) For each geographic feature, please include all relevant consequence values (if there are multiple) as attributes.</p>	Holly Whiteman	4/5/2024	4/26/2024				NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
521	CaPA	Set WMP#1	CaPA_Set WMP#1	8	CaPA_Set WMP#1_08	<p>a) E3 is currently conducting an independent review of the WORM v4. b) The answer to part (a) is yes, please provide a copy of any reports and output from the independent review. c) The answer to part (a) is no, when does PGE expect the review to be completed?</p>	Holly Whiteman	4/5/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
522	CaPA	Set WMP#1	CaPA_Set WMP#1	9	CaPA_Set WMP#1_09	<p>a) Has PGE created a detailed response document that details the WORM v4 similar to the "2021 Wildfire Distribution Risk Model Document" that PGE submitted following the public workshop held on October 3 and 4, 2021? b) If the answer to part (a) is yes, please provide a copy of the document. c) If the answer to part (a) is no, does PGE plan to create such a document? d) If the answer to part (c) is no, please explain why. e) If the answer to part (c) is no, when does PGE expect the document to be completed?</p>	Holly Whiteman	4/5/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
523	MGRA	Data Request No. 9	MGRA_Data_Request No. 9	1	MGRA_Data_Request No. 9_Q1	<p>This is a topic of current study. The sub-model model addresses primary wet-down ignitions due to equipment failures and not vegetation related failures. Current investigation is focused on the fact that wet-down ignitions occur in forested areas and ignitions do not follow the same pattern. Work is ongoing to improve the model's accuracy.</p>	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	11.4	Appendix D	11.4 ACI PGE-23-25 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
524	MGRA	Data Request No. 9	MGRA_Data_Request No. 9	2	MGRA_Data_Request No. 9_Q2	<p>As mentioned on page 10 of the 2023 PGE WMP Update, one of the key objectives is the development of Wildfire Consequence (WFC) models in the addition of an index for Red Flag conditions. Red flag conditions are combined with the outcomes. However, due to inconsistencies with the way Red Flag conditions are forecast and reported, a proxy for Red Flag conditions is the use of the definition for Red Flag conditions found in Northern California and estimate the "circular" dry wind" conditions from PGE's local meteorology data. Dry wind conditions exist as a portion in the baseline consequence model. Similar to the way the risk model uses Red Flag warnings, like Red Flag warnings, dry wind severity is combined with the baseline consequence model. However, the additional explanatory power of dry wind over the predicted destructive condition has proven to be more limited.</p>	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	11.4	Appendix D	11.4 ACI PGE-23-25 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
525	MGRA	Data Request No. 9	MGRA_Data_Request No. 9	3	MGRA_Data_Request No. 9_Q3	<p>PGE interprets this question to ask whether the dry wind severity definition corresponds to dry wind with higher and higher winds. In this case, yes, the dry wind definition is based on relative humidity being lower than a threshold and the wind speed being above a threshold. This is the definition used in the development of the dry wind severity model.</p>	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	11.4	Appendix D	11.4 ACI PGE-23-25 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
526	MGRA	Data Request No. 9	MGRA_Data_Request No. 9	4	MGRA_Data_Request No. 9_Q4	<p>PGE interprets this question to ask whether the dry wind severity data, used in the development of WFC Consequence, is directly used in the development of the probability of ignition sub-models. In the response to this, no, but the same source meteorological and humidity observations used in the development of the dry wind severity in the wildfire consequence model is used in the development of the probability of ignition sub-models.</p>	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	https://www.pge.com/news/ignition-risk-values-and-wildfire-consequence-models	0	NA	11.4	Appendix D	11.4 ACI PGE-23-25 Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements

527	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	5	MGRA_Data_Request No. 9_O5	PG&E Reduced PSPS Impacts to Customers (Section 6.1.1) For the 22k to 13k reduction in customers exposed to PSPS events, how much of the reduction is due to 1) undergrounding 2) Microturb Switch Operations (MSO) and 3) other factors?	All of the reduction from 22k to 13k is attributed to undergrounding. As mentioned in Section 6.1.1 of the 2023 WMP, the number of undergrounding miles for 2025 was adjusted from 550 miles to 200 miles, therefore the reduction in customer events mitigated correspondingly proportionally to the decrease in undergrounding miles. Completed. No customer events mitigated from Microturb Switch Operations (MSO) requirements are expected in 2025 as the program is expected to be completed in 2024.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	9.1.5	9.0 Public Safety Power Shutoff	9.1.5 Performance Metrics Identified by the Electrical Corporation
528	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	6	MGRA_Data_Request No. 9_O6	Explain how MSO reduces PSPS incidence.	For installation, Microturb Switch Operator (MSO) devices do not reduce "PSPS incidences," but rather the scope of customer impact during a PSPS event. When MSO devices were installed to serve as a second-to-last defense, PG&E identified MSO devices as an ignition risk when operated while energized due to the chance of arc flash. As a result, MSO devices are not operated when energized, but must first be de-energized before they can be operated. If an MSO device is activated for a PSPS event, the next upstream non-MSO device must first be used to trip and isolate the circuit. If the next upstream non-MSO device can be operated while de-energized, the non-MSO device is closed to energize up to the nearest MSO device. This procedure minimizes the ignition risk from the MSO device but results in a short duration PSPS outage for the customers located between the MSO device and the upstream device. If the MSO device is replaced with a non-MSO device such as a recloser, substation equipment, and other customer equipment designed for current usage, these short duration outage customers will no longer experience any outage during the PSPS event because the replacement devices use the system clearing and energizing strategy to return to service.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	9.1.5	9.0 Public Safety Power Shutoff	9.1.5 Performance Metrics Identified by the Electrical Corporation
529	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	7	MGRA_Data_Request No. 9_O7	Does MSO also allow for EPPS to be enabled as a function of weather conditions?	Micro Switch Operator (MSO) devices are not capable of fault protection and function as not part of EPPS. As part of the MSO rollout in the WMP, these units are being replaced with arc flash, an advanced switch, or a manual switch. If the location option is selected, those segment devices will have EPPS capability and be added to EPPS enabled area.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	8.1.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
530	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	8	MGRA_Data_Request No. 9_O8	If not, EPPS enabled based on weather conditions and if so how?	EPPS is enabled and disabled based on forecasted weather conditions. EPPS settings are enabled or disabled based on criteria approved by our Wildlife Risk Governance Steering Committee. This criteria is based on 2m-by-2m meter resolution from our Fine Potential Index (FPI) model. PG&E FPI model is trained to identify localized wildfire risk based on a variety of key risk indicators derived from the actual wildfire risk based data available at the station.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	8.1.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
531	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	9	MGRA_Data_Request No. 9_O9	Table ACI-PG&E-23-05-3: Ignition mitigation effectiveness. For A1.4 - Covered conductors + EPPS, effectiveness is noted as 70-75%. An 80% reduction CC + EPPS, not also FPI, and CC + EPPS, how much of it is possible that adding additional mitigations reduces the effectiveness? If this calculation is an error please explain. Perform this as a circuit analysis, not a substation analysis, assuming all circuits are for FPI enabled.	The reported blended average effectiveness for A1.4 is based on a study focused on a specific subset of circuits where FPI CC could be utilized. This same A1.4 analysis cannot be performed across all circuits as REC is enabled. The REC/FPI analysis was performed across all circuits and the following requirements are met: -> Minimum of 20 OH miles of FID -> Less than 20% of circuit past substation -> Less than 10% of other mitigations (CC Overhead, EPPS, OCC) on the A1.4 population is less in comparison to that of the full population in the A1.4 study. Therefore, the overall effectiveness of A1.4 is lower than 70-75%.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05: Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
532	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	10	MGRA_Data_Request No. 9_O10	Please provide the above table ACI-PG&E-23-05-3 under the assumption that Covered Conductor mitigate ignition reduction effectiveness is 0.0%, not 65.4%.	This is not feasible to provide based on the methodology of PG&E's study. Mitigation effectiveness cannot be presented as a 0% as the overall system ignition effectiveness is not impacted. Rather, the average effectiveness value of 65.4% is the result of failure, such as an effectiveness ranging from 0% to 100%. Much of the failure is covered conductors due to the benefits of the operational mitigations, such as EPPS. Because of that, we chose a more granular analysis of outage causes to assess effectiveness to differentiate the multiple combined mitigations by site and circuit mile.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05: Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
533	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	11	MGRA_Data_Request No. 9_O11	Table ACI-PG&E-23-06-1: Non-Underground Mitigations (This consideration of location-specific benefits and risks is consistent with the prior decision-tree approach we used to select projects and mitigations for completion in 2023. To what extent does the new calculation differ from the previous decision-tree based analysis and in what way does it differ?)	PG&E objects to the questions on the grounds that it is vague and ambiguous, including that the repetition of the statement "to what extent does it differ" may imply that the scope of the question may not have been fully articulated. Nonetheless, PG&E interprets the question as asking for clarity on the difference between the Wildlife Risk Critical Analysis (WRCA), which we designed to be the "fine calculation" referenced in the question, and the tools used to build a plan for addressing projects prior to the WRCA tool. We have, therefore, answered based on that understanding of the question. PG&E's system hardening program starts by using a model to determine where (which circuit segments) we should complete wildfire system hardening work. Once a circuit segment is selected, PG&E's Grid Design engineers use a decision tree to evaluate the location of that circuit segment to determine the right mitigation approach for that circuit segment. The primary element that has changed over the last few years is the "model" used to select the majority of circuit segments to be the target for hardening, for example: -> Projects selected using PG&E's Wildlife Distribution Risk Model (WDRM) v2 identified work located in the top 20% of circuit segments, selected solely based on wildfire risk scores. -> Projects selected using WDRM v3 incorporated feasibility factors in conjunction with wildfire risk scores to create a Wildlife Feasibility Effectiveness (WFE) score. Doing forward, the WFECA is an analytical framework that will compare the total flame length and total flame height benefits of different mitigations, and combinations of mitigations, at the circuit segment level. As discussed in our 2023 WMP update, the WFECA tool incorporates wildfire risk, as well as reliability, public safety, and cost efficiency in accordance with the requirements of SB 594. Reliability and public safety are new inputs to the selection process that is used by the WFECA which informs the selection of hardening projects from these additional inputs. The cost efficiency data incorporated into WFECA is more comprehensive than the feasibility score used in WFE. Cost efficiency accounts for benefits associated with wildfire public safety and reliability risk reduction, as well as costs associated with mitigation management. Specific relative risk and public safety benefits of various mitigations. Cost efficiency also includes the upfront capital conditions which were previously incorporated into the decision tree.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05: Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
534	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	12	MGRA_Data_Request No. 9_O12	Table ACE PG&E-23-06-01: Please provide the table presented at these workshops, redacted for any confidential material.	Please reference the table below for presentation materials for the workshops identified. Workshop 1: Stakeholder Meetings: Kickoff and Commission Testing Date: May 3, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A01.pdf Agria Stakeholder Meeting Date: June 12, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A02.pdf New Technologies Date: July 17, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A03.pdf Maintenance and Inspection Date: July 24, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A04.pdf Effectiveness Testing Date: August 7, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A05.pdf Newsletters - The Observer News Date: August 10, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A06.pdf New Technologies Date: September 20, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A07.pdf New Technologies Date: November 8, 2023 WMP-Development2023-2025_DR_MGRA_009-00126A08.pdf	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	7	NA	11.4	Appendix D	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
535	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	13	MGRA_Data_Request No. 9_O13	Early Fault Detection/Distribution Fault Identification via EPPS circuits being deployed on circuits that are being scoped for undergrounding?	PG&E has avoided selecting circuit-level segments with known undergrounding schedules for Early Fault Detection (EFD) deployment.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-07 - Deployment of New Technologies
536	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	14	MGRA_Data_Request No. 9_O14	What would be the final year that a circuit will be undergrounded that might potentially be implemented with an FFD?	Not applicable, please see the response to Question No. 13 for an explanation.	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-07 - Deployment of New Technologies
537	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	15	MGRA_Data_Request No. 9_O15	Please provide a list of representative ignitions for the last two years including the following additional attributes: a) rating system at the time of the ignition (R1, R2, etc.) b) whether circuit was implemented with active EPPS c) whether circuit was implemented with active ICD	Please see attachment "WMP-Development2023-2025_DR_MGRA_009-0015A01.xlsx" for the requested information. Please note that for part (a), PG&E produces Fine Potential Index (FPI) ratings only for circuits with a Fine Index Area (FIA).	Joseph Mitchell	4/8/2024	4/11/2024	4/11/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05: Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
538	MGRA	Date Request No. 9	MGRA_Data_Request No. 9	16	MGRA_Data_Request No. 9_O16	Please provide a list of outage for the last two years including the following additional attributes: a) rating system at the time of the outage (R1, R2, etc.) b) whether circuit was implemented with active EPPS c) whether circuit was implemented with active ICD	Please see attachment "WMP-Development2023-2025_DR_MGRA_009-0016A01.xlsx" for the requested information.	Joseph Mitchell	4/8/2024	4/17/2024	4/17/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	1	NA	11.4	Appendix D	11.4 ACI PG&E-23-05: Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
539	CAI/PA	Set WMP-42	CaIpa_Set WMP-42_01	1	CaIpa_Set WMP-42_01	Pages 10 of PG&E's 2023 WMP Update states that for version 4 of PG&E's Wildlife Consequence Model, PG&E increased the fire simulation time from eight to 24 hours. a) Let the reasons why PG&E chose to increase the fire simulation time to 24 hours. b) In PG&E areas of any potential detrimental effects associated with increasing the fire simulation time from eight to 24 hours? c) If the answer to part (b) is yes, let any such potential detrimental effects. d) What was PG&E's goal in so far as validating the accuracy of 24-hour fire simulations?	a) Several reasons were presented and the E3 model relation for the WDRM v3 model recommended moving to longer simulation times to capture the impacts. b) An additional reason for the E3 model relation for the WDRM v3 model was to reduce the uncertainty between simulation average and actual average burned area. c) PG&E ran comparisons of both 24-hour and 8-hour simulations for historical fires in the WDRM v3 model. The comparison between 24-hour and 8-hour simulations is not restricted to the reasons. The plot below is a comparison between actual average burned measured vs simulated (a) versus simulated average burned by Technology (a) only for 24-hour and 8-hour simulations. Every dot represents a historical fire and a colored Technology simulation. The comparison between actual burned and Technology simulated average burned is slight. Please see below for legend and Technology simulated average (a) values and averaging the historical area (a) by sub-area. We use the same area, measured and actual area below. The trend in the average area (24-hour simulation) is smaller than the trend in the (a) burned area (8-hour simulation) where the 2-year prediction time allows the blue line, WFC, takes this to mean that 24-hr TS simulations >1000 acres are more reliably predictive of larger historical fires. This is the primary impact for setting 24-hour simulations in the WDRM v3 model. d) Please see below for the comparison to actual average burned.	Holly Wetman	4/8/2024	4/12/2024	4/12/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
540	CAI/PA	Set WMP-42	CaIpa_Set WMP-42_02	2	CaIpa_Set WMP-42_02	Page 1021 of PG&E's 2023-2025 WMP R4 release, in response to ACI PG&E-23-06-01: 24-hour simulation result is higher than the 8-hour simulation, and unclear progression effectiveness over time. Sensitivity analysis is continuing and PG&E will be able to provide results in 2023 that quantify the effectiveness of shorter versus longer simulation durations. a) Describe the result of the sensitivity analysis discussed above. b) Provide any written reports, reports, or other output of the sensitivity analysis discussed above.	By trending the simulation average (a) values and averaging the historical area (a) by sub-area, we use the same area, measured and actual area below. The trend in the average area (24-hour simulation) is smaller than the trend in the (a) burned area (8-hour simulation) where the 2-year prediction time allows the blue line, WFC, takes this to mean that 24-hr TS simulations >1000 acres are more reliably predictive of larger historical fires. This is the primary impact for setting 24-hour simulations in the WDRM v3 model. c) Please see below for the comparison to actual average burned.	Holly Wetman	4/8/2024	4/12/2024	4/12/2024	http://www.pge.com/customers/pubs/whatsnew-and-updates/energy-emissions-and-sustainability/MSO_jsp	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence

541	CaPA	Set WMP42	CaPA_Set WMP42_3	3	CaPA_Set WMP42_03	<p>Page 7 of PG&E's 2025 WMP Update states, with regard to PG&E's distribution event probability models, "Significant efforts were 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 continuous effort to improve the quality and utilization of model data for assets, lightning, and outages.</p> <p>Asset data quality improvements included:</p> <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"> - Proprietary code reanalysis through a failure in the model - For primary conductors, this included: <ul style="list-style-type: none"> - Changing distribution load flow software outputs - Changing conductor and sag data from categorized model tests to continuous model inputs (i.e. conductor diameter, conductor strength, and conductor weight) - Using LDMAR data and applying observations where available in WFD files - Proprietary code reanalysis through a failure in the model - For lightning, this included: <ul style="list-style-type: none"> - Applying Lightning Return Analysis (LRA) model results from the Applied Technology Services (ATS) team that assessed fault current and wind speed - Including open legs - For dynamic protective devices, fuses, switches, capacitor banks, and voltage regulators - Gathering asset attributes as captured in EDCS over time (2016-2022) - Including open legs - 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"> - Correcting weather station data to 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 latitude & longitude locations to 	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
542	CaPA	Set WMP42	CaPA_Set WMP42_4	4	CaPA_Set WMP42_04	<p>Table PG&E-B.1.1 on page 8 of PG&E's 2025 WMP Update indicates that WORM 4d includes wind direction in its vegetation models.</p> <p>a) Describe how wind direction is incorporated in the vegetation models in WORM 4d.</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 its risk model.</p>	<p>The WORM 4d model includes wind direction in its vegetation models. This is done by incorporating wind direction into the wind speed and direction inputs for the vegetation models. The wind speed and direction inputs are calculated based on the wind speed and direction at the location of the vegetation model. The wind speed and direction inputs are calculated based on the wind speed and direction at the location of the vegetation model. The wind speed and direction inputs are calculated based on the wind speed and direction at the location of the vegetation model.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
543	CaPA	Set WMP42	CaPA_Set WMP42_5	5	CaPA_Set WMP42_05	<p>Page 16 of PG&E's 2025 WMP Update states, "In the WTRM V2 update, we corrected the wind velocity conservative estimate by applying a remaining strength of 92% (replacement Condition 2) to reinforced poles." State the basis for applying a remaining strength of 92% to reinforced poles.</p>	<p>The WTRM V2 update corrected the wind velocity conservative estimate by applying a remaining strength of 92% to reinforced poles. This was done to ensure that the remaining strength of the poles was accurately reflected in the WTRM V2 update. The remaining strength of the poles was calculated based on the remaining strength of the poles in the WTRM V2 update. The remaining strength of the poles was calculated based on the remaining strength of the poles in the WTRM V2 update.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
544	CaPA	Set WMP42	CaPA_Set WMP42_6	6	CaPA_Set WMP42_06	<p>Page 17 of PG&E's 2025 WMP Update states, "When viewed on a line weighted basis, the relative average age of each substation has not increased for lightning. It should be noted that these relative weighted values will tend to highlight short lines with high risk."</p> <p>a) Does CaPA plan to correct for the fact that relative weighted values tend to highlight short lines?</p> <p>b) If the answer to part (a) is yes, explain the method(s) PG&E plans to use.</p> <p>c) If the answer to part (a) is no, explain why not.</p>	<p>The relative average age of each substation has not increased for lightning. This is because the relative average age of each substation is calculated based on the relative average age of each substation. The relative average age of each substation is calculated based on the relative average age of each substation. The relative average age of each substation is calculated based on the relative average age of each substation.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	6.2.2.2	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
545	CaPA	Set WMP42	CaPA_Set WMP42_7	7	CaPA_Set WMP42_07	<p>Page 24 of PG&E's 2025 WMP Update states that PG&E is adjusting target PS-07 (physical PS-07) impacts to Customers in 2025 downward by 40% to account for a 40% decrease in outage duration miles. Does CaPA expect a similar reduction in the number of EPSS customer events mitigated in 2025? Explain your answer.</p>	<p>PG&E is adjusting target PS-07 (physical PS-07) impacts to Customers in 2025 downward by 40% to account for a 40% decrease in outage duration miles. This is because the target PS-07 (physical PS-07) impacts to Customers in 2025 are being adjusted downward by 40% to account for a 40% decrease in outage duration miles. This is because the target PS-07 (physical PS-07) impacts to Customers in 2025 are being adjusted downward by 40% to account for a 40% decrease in outage duration miles.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of OGD
546	CaPA	Set WMP42	CaPA_Set WMP42_8	8	CaPA_Set WMP42_08	<p>Page 29 of PG&E's 2025 WMP Update states that PG&E's 2025 forecast capital expenditure associated with covered conductor installation will increase by a factor of 3.8, from \$4.4 billion to \$24.8 billion.</p> <p>The updated Table PG&E-B.1.2.1 on page 402 of PG&E's 2025 WMP Update indicates that, in 2025, the outage associated with covered conductor installation will increase by a factor of 4.4, from 50 miles to 220 miles.</p> <p>Please explain why PG&E's capital forecast for 2025 will increase by a factor of 5.8 while the outage will increase by a factor of 4.</p>	<p>PG&E's 2025 forecast capital expenditure associated with covered conductor installation will increase by a factor of 3.8, from \$4.4 billion to \$24.8 billion. This is because the forecast capital expenditure associated with covered conductor installation is being increased by a factor of 3.8 to account for a 3.8 increase in the number of covered conductor miles. This is because the forecast capital expenditure associated with covered conductor installation is being increased by a factor of 3.8 to account for a 3.8 increase in the number of covered conductor miles.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	4.3	4.0 Overview of WMP	4.3 Proposed Equivalents
547	CaPA	Set WMP42	CaPA_Set WMP42_9	9	CaPA_Set WMP42_09	<p>In comparison to PG&E's WORM v3, does WORM 4d:</p> <p>a) Move 10 percent more of ground risk into or out of the top lightning risk circuits, segments, or spans? If yes, please provide the data in the format of Table 11.1 of the 2025 WTRM Mitigation Plan Update.</p> <p>b) Move 10 percent more of PPS risk into or out of the top PPS risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.2 on section 11.1 of the 2025 WTRM Mitigation Plan Update.</p> <p>c) List the WORM 4d updates.</p>	<p>WORM 4d moves 10 percent more of ground risk into or out of the top lightning risk circuits, segments, or spans. This is because WORM 4d is being updated to reflect the changes in the WTRM Mitigation Plan Update. WORM 4d is being updated to reflect the changes in the WTRM Mitigation Plan Update.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	1	NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
548	CaPA	Set WMP43	CaPA_Set WMP43_1	1	CaPA_Set WMP43_01	<p>There does not appear to be an option of covered conductor with 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 to part (a) is yes, why is this option not included as one of the possible alternatives in the WBC?</p> <p>c) If the answer to part (a) is no, why not?</p>	<p>PG&E did not consider an alternative consisting of covered conductor with EPSS and DCD. This is because the alternative consisting of covered conductor with EPSS and DCD is not included in the WBC. This is because the alternative consisting of covered conductor with EPSS and DCD is not included in the WBC.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05 - Updating Grid Planning Decision Meeting
549	CaPA	Set WMP43	CaPA_Set WMP43_2	2	CaPA_Set WMP43_02	<p>The identified average effectiveness for alternative 3 (REFC, with covered conductor, EPSS, and DCD) is lower than the identified average 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 than alternative 4?</p>	<p>The identified average effectiveness for alternative 3 (REFC, with covered conductor, EPSS, and DCD) is lower than the identified average effectiveness for alternative 4 (covered conductor with EPSS). This is because the effectiveness of alternative 3 is being compared to the effectiveness of alternative 4. This is because the effectiveness of alternative 3 is being compared to the effectiveness of alternative 4.</p>	<p>https://www.pge.com/assets/docs/2025-wmp-update/2025-wmp-update-03-01-2025.pdf</p>	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-05 - Updating Grid Planning Decision Meeting

550	CaPA	Set WMP-43	CaPA_Set WMP-43	3	CaPA_Set WMP-43_03	List the assumptions unique to each of the two alternatives.			Holly Whiteman	4/12/2024	4/26/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
551	CaPA	Set WMP-43	CaPA_Set WMP-43	4	CaPA_Set WMP-43_04	The table notes, "As of these effectiveness values represent a blended average effectiveness at the circuit segment level with the assumption of No. 3- REFCL, CC Overhead, EPSS and OCC with a substation effectiveness score. Not all substations are capable of having REFCL applied, and it cannot be limited to a circuit segment only. b) Explain the difference in "substation effectiveness score" and "blended average effectiveness. Are the two the same? c) Does alternative view assume that, for circuits where REFCL cannot be applied to the substation, there are no other alternatives? d) If the answer to part (c) is yes, state the basis for this assumption. e) Describe how PG&E would implement alternative 3 on circuits served by substations where REFCL could not be applied. f) Describe how PG&E would implement alternative 3 on circuits served by substations where REFCL could not be applied.	1) Substation effectiveness score starts with a potential preliminary review. All requirements for REFCL must be met to pass. The preliminary screening requirements are: a) Single voltage 3 wire 12 kV substation. b) Maximum of 20 Overhead HTD. c) No Autotransformer located inside the substation. d) The total charging current not exceeding 167 Amps for each Distribution Transformer Bank in a substation and e) Less than 20% of total mileage and subtransformers outside of the substation. Blended average effectiveness refers to the average effectiveness of REFCL based on weather data with representative utility. 2) If a substation where REFCL cannot be applied due to technical feasibility, we included these from the study all together. Therefore, Alternative 3 only shows effectiveness values that meet the highest requirements for REFCL implementation. 3) The substations that were excluded and not included in the base dataset for the REFCL effectiveness calculation. 4) To implement REFCL on these circuits, additional engineering review of the substation layout would be performed to ensure adequate room for installation of the REFCL equipment and review of substation and distribution equipment ratings to identify necessary upgrades to allow for REFCL installation. REFCL would be applied independent of other obligations. Additional CPZ level review would be needed to determine which segments should receive covered conductors which should include underground in a least such that we don't compromise REFCL. 5) PG&E would not implement alternative 3 on substations that do not meet the preliminary review for REFCL requirements. These substations would be evaluated for alternative 3.		Holly Whiteman	4/12/2024	4/26/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
552	CaPA	Set WMP-43	CaPA_Set WMP-43	5	CaPA_Set WMP-43_05	Alternative 3 is the only alternative that appears to include EPSS. a) Is EPSS considered in any of the other alternatives? b) Why is the effectiveness for alternative 3 higher than similar alternatives that appear to include more mitigation techniques? c) If the answer to part (a) is no, why not?	1) No, EPSS is not considered in any of the other alternatives. 2) The effectiveness value calculated for a different reason from others in the study. For alternative 3, the observed effectiveness of EPSS (EPSS) was applied to the neutral line cross-sectional area. The neutral line effectiveness of 85.4% + 75% x (100% - 85.4%) = 91.3%. 3) The effectiveness of alternative 3 is 8.3% each effectiveness value was calculated based on each mitigation's expected effectiveness in preventing an outage resulting from over 2,000 completed failure modes (outage) based on historical HTD outage data between 2015 and 2022. The study for EPSS cannot be completed in this same manner because an engineered solution cannot currently be used to prevent EPSS from occurring. 4) Approximately 430 distribution substations were circuit segments with HTD/HFA. 5) Other preliminary screening, 302 of these distribution substations are not feasible for REFCL implementation. 6) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-20230420.pdf which includes a list of all substations where HTD/HFA exist. A Column (I) shows all locations if the substation meets (Pass) or does not meet (Fail) the requirements where REFCL can or cannot be applied. Substations that are designated as not feasible (Fail) in the analysis are due to one or more of the following reasons: a) Column (B) Connected circuits are not 12 kV. b) Column (C) HTD Maximum HTD exceeds the maximum permitted distribution circuits connected to the substation or a mix of conductors. c) Column (D) Autotransformer located inside the substation. d) Column (E) Peak Auto Analysis) Circuit mileage, composition of subtransformers is greater than newly owned, and e) Column (F) Total Charge Amps) The total charging current exceeds 167 Amps, for each Distribution Transformer bank installed at base per substation (shown in Column H). The Total Charge Amps are calculated as an alternative way to measure the proportion of a circuit underground here 50% of circuit is underground.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
553	CaPA	Set WMP-43	CaPA_Set WMP-43	6	CaPA_Set WMP-43_06	The table notes, "Not all substations are capable of having REFCL applied, and it cannot be limited to a circuit segment only. a) How substations does PG&E have that serve circuit segments with HTD/HFA? b) How many of the substations in your response to part (a) are not capable of having REFCL applied? c) Provide a list of the substations in part (b). For each substation, state the reasons why REFCL cannot be applied. d) If PG&E has not conducted the analysis necessary to respond to parts (b) and (c) in full, please explain why not?	1) Approximately 430 distribution substations were circuit segments with HTD/HFA. 2) Other preliminary screening, 302 of these distribution substations are not feasible for REFCL implementation. 3) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-20230420.pdf which includes a list of all substations where HTD/HFA exist. A Column (I) shows all locations if the substation meets (Pass) or does not meet (Fail) the requirements where REFCL can or cannot be applied. Substations that are designated as not feasible (Fail) in the analysis are due to one or more of the following reasons: a) Column (B) Connected circuits are not 12 kV. b) Column (C) HTD Maximum HTD exceeds the maximum permitted distribution circuits connected to the substation or a mix of conductors. c) Column (D) Autotransformer located inside the substation. d) Column (E) Peak Auto Analysis) Circuit mileage, composition of subtransformers is greater than newly owned, and e) Column (F) Total Charge Amps) The total charging current exceeds 167 Amps, for each Distribution Transformer bank installed at base per substation (shown in Column H). The Total Charge Amps are calculated as an alternative way to measure the proportion of a circuit underground here 50% of circuit is underground.		Holly Whiteman	4/12/2024	4/26/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	1	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
554	CaPA	Set WMP-43	CaPA_Set WMP-43	7	CaPA_Set WMP-43_07	The table lists the assumption, "Mitigation effectiveness for other Environmental caused outages: None for Overhead and All for Underground". State the basis for this assumption.	The referenced table should not have included "None for Overhead and All for Underground" for mitigation effectiveness for other environmental caused outages. Some outage combinations did have a warning assigned in the study. These were mostly related to overhead transformer equipment failure where enhanced safety settings or overhead hardware would mitigate risk. The environmental-related basic cases is assigned to mitigate during a significant weather or environmental event. Overhead construction would still be susceptible to weather, erosion, lightning and the events. The environmental safety settings and overhead hardware would still apply for transformer and equipment failure related outages and reduce the chance of an outage for some environmental-related outages.		Holly Whiteman	4/12/2024	4/26/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
555	CaPA	Set WMP-43	CaPA_Set WMP-43	8	CaPA_Set WMP-43_08	The table lists the assumption, "Analysis assumes no Overhead degradation for life of the asset". a) State the basis for this assumption. b) Does PG&E have plans to include overhead degradation of assets in its mitigation effectiveness analysis in the future? c) How does the WRECA consider benefits and costs over the lifetime of the asset if the analysis assumes no overhead degradation?	1) PG&E chose to conservatively assume no degradation of assets in each effectiveness analysis. Overhead assets that are off normal were categorized as a separate asset, a degradation factor was not considered necessary within the analysis. 2) PG&E does not have plans to include overhead degradation of assets in its mitigation effectiveness analysis. 3) The WRECA value of installation costs only the expected lifetime condition and maintenance costs are considered in the WRECA. Similarly, the net present value of the reduction benefits is considered over the intended life of the asset. 4) EPSS and OCC settings are not engaged in the system when the FPL rating is 21. This forms the basis for this assumption. However, the calculation behind engaging EPSS are complex and, for more information, please see our Base 2023-0205 WMP (to April 2, 2023) on page numbers 375-371 and our 2022 Revised WMP (July 26, 2022) on page numbers 348-352. 5) No, a specific weather attribute is not directly included in the outage combination analysis. 6) For alternative 1-9, each considered the basic cases, experimental cases, false-tolerated equipment, and equipment condition. Additionally, A3 is considered the type of outage i.e., phase-to-phase, single phase-ground, and double line-ground distinguish REFCL's impact as it has a specific effectiveness for each fault type. 7) The FPL rating was considered in the analysis to distinguish when specific outages occur versus weather-related outages.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
556	CaPA	Set WMP-43	CaPA_Set WMP-43	9	CaPA_Set WMP-43_09	The table lists the assumption, "EPSS and OCC are only active when conditions are greater than R1". a) Are weather events applicable attributes in the outage combinations used in PG&E's mitigation effectiveness assessment? b) Please provide a list of applicable attributes to be used in outage combinations.	1) EPSS and OCC settings are not engaged in the system when the FPL rating is 21. This forms the basis for this assumption. However, the calculation behind engaging EPSS are complex and, for more information, please see our Base 2023-0205 WMP (to April 2, 2023) on page numbers 375-371 and our 2022 Revised WMP (July 26, 2022) on page numbers 348-352. 2) No, a specific weather attribute is not directly included in the outage combination analysis. 3) For alternative 1-9, each considered the basic cases, experimental cases, false-tolerated equipment, and equipment condition. Additionally, A3 is considered the type of outage i.e., phase-to-phase, single phase-ground, and double line-ground distinguish REFCL's impact as it has a specific effectiveness for each fault type. 4) The FPL rating was considered in the analysis to distinguish when specific outages occur versus weather-related outages.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-05 – Updating Grid Hardening Decision Making
557	CaPA	Set WMP-43	CaPA_Set WMP-43	10	CaPA_Set WMP-43_10	Page 68 of PG&E's 2023 WMP Update states, "The Joint Utilities have met monthly in 2023 to discuss the results of recorded and estimated effectiveness for covered conductor". a) Provide the results of recorded effectiveness for covered conductor that were discussed in 2023 for each of the Joint Utilities. b) Provide the results of estimated effectiveness for covered conductor that were discussed in 2023 for each of the Joint Utilities. c) List any other findings from the monthly meetings in 2023 listed above.	1) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings. 2) Please see the response to subject for the requested information. 3) PG&E did not have additional meeting minutes to share in the Joint IOU Covered Conductor Working Group Report (identified a subject list). 4) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings. 5) Please see the response to subject for the requested information. 6) PG&E did not have additional meeting minutes to share in the Joint IOU Covered Conductor Working Group Report (identified a subject list). 7) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	1	NA	11.4	Appendix D	11.4 ACI PG&E 23-06 – Continuation of Grid Hardening Joint Studies
558	CaPA	Set WMP-43	CaPA_Set WMP-43	11	CaPA_Set WMP-43_11	Pages 68-67 of PG&E's 2023 WMP Update for three workshops the Joint Utilities held with Energy Safety June 2023 Distribution Fault Anticipation, July 2023 Early Fault Detection, August 2023 REFCL. a) Provide a copy of any reports, minutes, recordings, or other output of the three workshops. b) List any findings from each of the three workshops. c) List any action items PG&E took on from each of the three workshops.	1) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings. 2) Please see the response to subject for the requested information. 3) PG&E did not have additional meeting minutes to share in the Joint IOU Covered Conductor Working Group Report (identified a subject list). 4) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings. 5) Please see the response to subject for the requested information. 6) PG&E did not have additional meeting minutes to share in the Joint IOU Covered Conductor Working Group Report (identified a subject list). 7) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	4	NA	11.4	Appendix D	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_12	Page 68 of PG&E's 2023 WMP Update states, "In 2023, the utilities discussed the unit costs of CC and undergrounding and compared, at a high level, the different cost drivers." a) Provide the unit costs of covered conductor that were discussed in 2023 for each of the Joint Utilities. b) Provide the unit costs of undergrounding that were discussed in 2023 for each of the Joint Utilities. c) Describe the cost drivers that were discussed in 2023 for each of the Joint Utilities. d) List any other findings from the monthly meetings in 2023 listed above.	1) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.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 30. 2) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing covered undergrounding costs begins on page 40. 3) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing cost drivers begins on page 30. 4) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing cost drivers begins on page 30. 5) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group discussion, which includes the requested cost information. The section discussing cost drivers begins on page 30. 6) PG&E did not have additional meeting minutes to share in the Joint IOU Covered Conductor Working Group Report (identified a subject list). 7) Please see attachment WMP-Discussion2023-0205_DR_CaPAAlternative_043-2019A2601.pdf for the Joint IOU Covered Conductor Working Group Report, which includes the results of recorded and estimated effectiveness for covered conductors including during monthly Joint Utilities meetings.		Holly Whiteman	4/12/2024	4/17/2024	https://www.pge.com/assets/documents/assessing-the-effectiveness-of-refcl-for-substation-projects-04-16-24.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E 23-06 – Continuation of Grid Hardening Joint Studies

580	CAIPA	Set WMP-43	CaIPA_Sat WMP-43	13	CaIPA_Sat WMP-43_Q13	<p>Page 64 of PG&E's 2025 WMP Update states, with regard to the REFCV pilot at the Calistoga substation, "Although we are committed to continuing the demonstration project, several factors have caused delays in commissioning the program, including equipment failure, updated load time of equipment, and the need to procure additional equipment to further stabilize the system."</p> <p>a) List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>b) List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>c) List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>d) When does PG&E currently anticipate receiving actionable results from the REFCV pilot at the Calistoga substation?</p> <p>e) List each of the efforts PG&E made in 2023 to accelerate the REFCV pilot at the Calistoga substation.</p> <p>f) List each of the efforts PG&E plans to make in 2024 to accelerate the REFCV pilot at the Calistoga substation.</p> <p>g) List each of the efforts PG&E plans to make in 2024 to accelerate the REFCV pilot at the Calistoga substation.</p>	Holy Wellman	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-13-013.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-67 – Deployment of New Technologies
581	CAIPA	Set WMP-43	CaIPA_Sat WMP-43	14	CaIPA_Sat WMP-43_Q14	<p>Page 68 of PG&E's 2025 WMP Update states, "As of December 2023, PG&E moved beyond pilot and into production of these technologies, having deployed EFD technology on 103 locations over a distribution circuit and O&A technology at 79 substations."</p> <p>a) State the approximate number of circuit miles on which EFD is currently active.</p> <p>b) State the approximate number of circuit miles on which O&A is currently active.</p> <p>c) Describe PG&E's standards and criteria for determining when to install O&A technology.</p> <p>d) Please describe the results of the pilot program mentioned in the scope above, which prompted PG&E to move to production and deployment of these technologies in December 2023.</p> <p>e) Provide any reports, analyses, or other documentation of the results of the pilot program.</p>	Holy Wellman	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-14-014.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-67 – Deployment of New Technologies
582	CAIPA	Set WMP-43	CaIPA_Sat WMP-43	15	CaIPA_Sat WMP-43_Q15	<p>Table ACI-PG&E-23-67-1 on page 75 of PG&E's 2025 WMP Update lists the number of HFTD structures in each consequence level from Q&B to Medium.</p> <p>a) Provide an updated version of this table with additional rows to show the structures with a consequence rank of High or Critical.</p> <p>b) Provide an updated version of this table (including the additional rows from part a)) that lists structures in the HFTD (not only the HFTD).</p> <p>c) Explain the methodology PG&E used to segregate its pilot maps by consequence rank.</p> <p>d) Provide any procedures, reports, analyses, or other documentation to support your report to part b).</p>	Holy Wellman	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-15-015.pdf	1	NA	11.4	Appendix D	11.4 ACI PG&E-23-67 – Decrease in Disabled Distribution Inspectors
583	CAIPA	Set WMP-43	CaIPA_Sat WMP-43	16	CaIPA_Sat WMP-43_Q16	<p>Table ACI-PG&E-23-67-1 on page 75 of PG&E's 2025 WMP Update lists the number of HFTD structures in each consequence level from Q&B to Medium.</p> <p>a) Has PG&E used the WORM to do in-rank structures and pilot maps? If no, explain why not.</p> <p>b) If the answer to part (a) is no, does PG&E plan to use the WORM to do in-rank structures and pilot maps? If no, explain why not.</p> <p>c) If the answer to part (b) is yes, does PG&E plan to adjust its detailed inspection program to use the updated pilot map ranking? If no, explain why not.</p> <p>d) If the answer to part (c) is yes, will PG&E use the same inspection frequencies for the updated pilot map ranking? If no, explain why not.</p> <p>e) If the answer to part (c) is yes, when does PG&E plan to adjust its detailed inspection program to use the updated pilot map ranking in 2025?</p>	Holy Wellman	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-16-016.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-67 – Decrease in Disabled Distribution Inspectors
584	CAIPA	Set WMP-43	CaIPA_Sat WMP-43	17	CaIPA_Sat WMP-43_Q17	<p>Page 70 of PG&E's 2025 WMP Update states,</p> <p>a) What would be the annual cost of performing approximately 37,000 additional detailed aerial inspections of medium consequence assets annually by ground crew to increase both the speed and the cost of the inspection plan relative to inspecting these assets every other year. PG&E calculates that approximately 37,000 additional inspections would need to be performed annually at a cost of roughly \$4.3 million. Similarly, inspecting medium consequence structures every other year would result in 15,000 more inspections at an additional annual cost of 7.7 million.</p> <p>b) What would be the annual cost of performing approximately 37,000 additional detailed aerial inspections of high consequence assets?</p> <p>c) What would be the annual cost of performing approximately 15,000 additional detailed aerial inspections of high consequence assets?</p> <p>d) What would be the additional benefit, in dollars, of inspecting high consequence assets annually?</p>	Holy Wellman	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-17-017.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-67 – Decrease in Disabled Distribution Inspectors
585	MSRA	Data Request No. 10	MSRA_Data Request No. 10	1	MSRA_Data Request No. 10_Q1	<p>Please provide a spreadsheet listing (at least) of every undergrounding project completed during the period of January 1, 2020, through December 31, 2023, including non-WMP projects. For each project, please provide the following information (in columns):</p> <p>a) Project ID number or other identifier</p> <p>b) Circuit ID</p> <p>c) ID of each circuit segment that was actively undergrounded in the project (including costs for planning, design, permitting, and construction)</p> <p>d) Total number of circuit miles removed</p> <p>e) Total number of underground conductors installed</p> <p>f) Total number of structures removed</p> <p>g) Total number of structures removed by the project</p> <p>h) Total number of structures removed by other project segments since 2019.</p>	Joseph Michalek	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-17-017.pdf	1	NA	8	Section 8.1.2 - Grid Design and System Hardware	8.1.2.2 Undergrounding of electric lines and/or equipment
586	MSRA	Data Request No. 10	MSRA_Data Request No. 10	2	MSRA_Data Request No. 10_Q2	<p>Please provide a spreadsheet listing (at least) of every planned undergrounding proposed to be fully or partially completed by the end of 2025. This includes work currently underway, completed in 2024, or to be performed in 2024.</p> <p>a) Date number</p> <p>b) Program</p> <p>c) Circuit ID number</p> <p>d) Circuit segment name or ID number of the project affects more than one circuit segment, please identify each one.</p> <p>e) How/when will the work be completed from the wildfire risk model that you are using to estimate distribution risk in your 2025 WMP Update. Why?</p> <p>f) Is the project or activity a part of your 2025 WMP Update. Why?</p> <p>g) The expected completion date of the project.</p> <p>h) Total number of circuit miles to be installed prior to the end of 2025.</p> <p>i) Total number of circuit miles of overhead conductor to be permanently removed prior to the end of 2025 and replaced by underground conductor (note that this may differ slightly from the previous number due to differing overhead and undergrounded lengths).</p> <p>j) Length in circuit miles of overhead conductor to be permanently removed in 2023 and not replaced with covered conductor or undergrounded.</p> <p>k) Total number of customers served by the project.</p> <p>l) Total number of minutes of PSPS experienced by the project circuit segments since 2019.</p>	Joseph Michalek	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-17-017.pdf	1	NA	8	Section 8.1.2 - Grid Design and System Hardware	8.1.2.2 Undergrounding of electric lines and/or equipment
587	MSRA	Data Request No. 10	MSRA_Data Request No. 10	3	MSRA_Data Request No. 10_Q3	<p>Are OCC algorithms based on predicting weather conditions? If so, please describe how variability of OCC is adjusted according to weather?</p>	Joseph Michalek	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-17-017.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS including Implementation of OCC
588	MSRA	Data Request No. 10	MSRA_Data Request No. 10	4	MSRA_Data Request No. 10_Q4	<p>During testing (April 8th) test and code, the ADSB technology was mentioned as ADSB and not real-time location data (RTLD) by configuration. Please describe ADSB and for what mitigations it could be used, and how much it might help to improve the ADSB.</p>	Joseph Michalek	4/7/2024	4/7/2024	4/7/2024	http://www.pge.com/assets/pdfs/2025-wmp-update-caipa-sat-wmp-43-17-017.pdf	0	NA	11.4	Appendix D	11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS including Implementation of OCC

Row Number	Requester	Request Type	Request ID	Response ID	Request Description	Request Content	Requester Name	Request Date	Response Date	Request Status	Response Status	Request Title	Response Title	Request Category	Response Category		
569	MSRA	Date Request No. 10	MSRA_Data_Request No. 10	5	MSRA_Data_Request No. 10_OS	Please provide the 2022 and 2023 EPSS reliability data referred to on p. 8 and p. 12 of TSO 2024.20240402110566_20240402_PGE_2025_WMP/Update_RAC31915_AsnH7.pdf	For the narrative associated with PGE v 2022 EPSS Reliability Study, please reference pdf page 1120 at the following link: https://www.pge.com/content/dam/wr/documents-and-services-environmental-and-sustainability/A410R04.pdf Please also reference "WMP-Discovery2023-2025_DR_MDR_A_01-0054401.xlsx" for the 2022 EPSS Reliability Study. For PGE v 2023 EPSS Reliability Study, please reference the following attachments: WMP-Discovery2023-2025_DR_MDR_A_01-0054402.xlsx WMP-Discovery2023-2025_DR_MDR_A_01-0054403.xlsx	Joseph Mitchell	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/content/dam/wr/documents-and-services-environmental-and-sustainability/A410R04.pdf https://www.pge.com/content/dam/wr/documents-and-services-environmental-and-sustainability/A410R04.pdf	3	NA	11.4	Appendix D	11.4 ACI PGE-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD
570	MSRA	Date Request No. 10	MSRA_Data_Request No. 10	6	MSRA_Data_Request No. 11_OS	As per discussions in the April 8th meeting and confer, please provide distribution information for the 2023 calendar year that were not covered by response to previous questions or any other confidential information. This can be verified to the extent requested by the Social Questionnaire.	Please see attached "WMP-Discovery2023-2025_DR_MDR_A_01-0054401.xlsx" for the requested information.	Joseph Mitchell	4/12/2024	4/17/2024	4/17/2024	https://www.pge.com/content/dam/wr/documents-and-services-environmental-and-sustainability/A410R04.pdf	1	NA	11.4	Appendix D	11.4 ACI PGE-14 Effectiveness Analysis for EPSS Including Implementation of DCD
Pre-Discovery 55	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	15LUPP	MSRA_Data_Request No. 8_C1SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C1 CA data. Please remove any confidential attributes that may have been added to the provided information.	Please provide for Asset Point data for Camera, Fuse, Support Structure, and Pole.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 56	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	28LUPP	MSRA_Data_Request No. 8_C2SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C2 CA data. Please remove any confidential attributes that may have been added to the provided information.	Please provide Asset Line data for Transmission Line (as permitted as non-confidential) and Distribution (Distribution Lines).	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 57	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	35LUPP	MSRA_Data_Request No. 8_C3SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C3 CA data. Please remove any confidential attributes that may have been added to the provided information.	Please provide PIPS, Event data, Inertia, Event Log, Event Line, Event Polygon data, and any other data for Customer Meter data. Provide all 2025 Event Asset Damage data.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 58	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	42LUPP	MSRA_Data_Request No. 8_C4SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C4 CA data. Please remove any confidential attributes that may have been added to the provided information.	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C4 CA data. Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C4 CA data. Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C4 CA data.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 59	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	56LUPP	MSRA_Data_Request No. 8_C5SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C5 CA data. Please remove any confidential attributes that may have been added to the provided information.	Under Initiative, please provide GIS Hardware Log, including Hardware Log, Hardware Point, and Hardware Line data. Information data is requested at this link.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 60	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	69LUPP	MSRA_Data_Request No. 8_C6SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C6 CA data. Please remove any confidential attributes that may have been added to the provided information.	Under Other Reported Data, please provide Real Time Warning Day polygon data.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
Pre-Discovery 61	MSRA	Date Request No. 8	MSRA_Data_Request No. 8	73LUPP	MSRA_Data_Request No. 8_C7SURP	Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for C7 CA data. Please remove any confidential attributes that may have been added to the provided information.	Please provide a paper including calculated conductive loss using the methodology presented in the WMP. If independent probability and consequence layers exist, please provide these independent layers.	Joseph Mitchell	3/21/2023	4/22/2024			NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PGE-22-33 Progress on Filing Asset Inventory Data Gaps	
571	CAIPA	Set WMP/44	CAIPA_Set WMP/44_01	1	CAIPA_Set WMP/44_01	Page 54 of PG&E's 2025 WMP Update states: "We assessed the effectiveness of each of the mitigation alternatives against more than 2,000 outage combinations that have occurred at PGE's WFTD during wildfire seasons. PGE&E reviewed each of the outage combinations... and assigned an effectiveness rating for each mitigation at preventing each outage combination. At least three SMEs were involved in reviewing outage combinations and assigning effectiveness ratings." a) Please describe the methods used by PG&E SMEs to review outage combinations and assign effectiveness ratings. b) Do the 2,000 outage combinations represent a specific time period? Please explain your answer. c) Do the 2,000 outage combinations include outage combinations that occurred at PGE's WFTD but not in the WFTD? Please explain your answer.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Outaging Grid Hardware Decision Making		
572	CAIPA	Set WMP/44	CAIPA_Set WMP/44_02	2	CAIPA_Set WMP/44_02	Page 44 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... and that contribution to overall risk for the circuit segment." a) Please describe the methods used in the WBCA to adjust for the outage combinations likely to occur on a given circuit segment. b) Please describe the methods used in the WBCA to adjust for the estimated frequency of outage combinations on a given circuit segment. c) Please describe the methods used in the WBCA to adjust for the contribution of outage combinations to overall risk.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Outaging Grid Hardware Decision Making		
573	CAIPA	Set WMP/44	CAIPA_Set WMP/44_03	3	CAIPA_Set WMP/44_03	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... and that contribution to overall risk for the circuit segment." a) Will the WBCA adjust for outage combinations on a scale smaller than a circuit segment? For example, a very small circuit segment. b) If the answer to part (a) is yes, please explain the methods and criteria PG&E plans to use to adjust the WBCA calculations to account for these smaller than a circuit segment. c) If the answer to part (a) is no, please explain why not.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Outaging Grid Hardware Decision Making		
574	CAIPA	Set WMP/44	CAIPA_Set WMP/44_04	4	CAIPA_Set WMP/44_04	Page 54 of PG&E's 2025 WMP Update discusses Underpinning versus Overhead Hardening. Underpinning is listed to have greater total component risk reduction, but has longer term value now to install. a) Has PG&E conducted an analysis of its transmission and distribution system of assets when evaluating benefits of overhead hardening, which is faster to deploy? b) If the answer to part (a) is yes, please consider the remaining life of assets when evaluating benefits of overhead hardening. c) 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.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Outaging Grid Hardware Decision Making		
575	CAIPA	Set WMP/44	CAIPA_Set WMP/44_05	5	CAIPA_Set WMP/44_05	Page 57 of PG&E's 2025 WMP Update states: "Regarding cost effectiveness scores, the underpinning projects in PG&E's current pipeline assets previously selected using a methodology (WDRM V4 and V10) did not incorporate cost effectiveness scores for individual projects. Therefore, cost effectiveness scores are not available." a) Define the term "underpinning project" in the above statement. b) Has PG&E used the outputs from WDRM V4 to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce? c) If the answer to part (b) is yes, please provide the cost effectiveness scores for all projects in PG&E's current underpinning workforce. d) If the answer to part (b) is no, please explain why not. e) Does PG&E plan to use the outputs from WDRM V4 to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce? f) If the answer to part (e) is yes, please describe the methodology PG&E will use to calculate the cost effectiveness scores for all projects in PG&E's current workforce. g) If the answer to part (e) is no, please explain why not. h) How does PG&E estimate the incremental lifetime expenditure when calculating the cost effectiveness scores for the underpinning projects in PG&E's current workforce? i) Please describe the methodology PG&E will use to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce. j) Please describe the methodology PG&E will use to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-05 - Outaging Grid Hardware Decision Making		
576	CAIPA	Set WMP/44	CAIPA_Set WMP/44_06	6	CAIPA_Set WMP/44_06	a) Define the term "Overhead Hardening" in the context of "Wildfire Risk with EPSS and PIPS". b) Please state the significance of the "3-dt ratio of Overhead Wildfire Risk with EPSS and PIPS" compared to "Distribution Hardware".	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-02 - PIPS and Wildfire Risk Trade-Off Transparency		
577	CAIPA	Set WMP/44	CAIPA_Set WMP/44_07	7	CAIPA_Set WMP/44_07	Figure ACI-PGE-23-02-d on page 40 of PG&E v 2025 WMP Update indicates that wildfire risk is approximately \$20.88 million, and PIPS and EPSS combined reduce the wildfire risk by approximately \$14.33 million. a) How does PG&E estimate the wildfire risk and the \$14.33 million risk reduction estimates actual values? b) Please explain the methodology PG&E used to estimate the wildfire risk and the \$14.33 million risk reduction estimates. c) Do the \$20.88 million wildfire risk and the \$14.33 million risk reduction estimates apply to PG&E's entire service territory? Please explain the methodology PG&E used.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-02 - PIPS and Wildfire Risk Trade-Off Transparency		
578	CAIPA	Set WMP/44	CAIPA_Set WMP/44_08	8	CAIPA_Set WMP/44_08	Figure ACI-PGE-23-02-d on page 40 of PG&E v 2025 WMP Update indicates that wildfire risk is approximately \$20.88 million, and PIPS and EPSS combined reduce the wildfire risk by approximately \$14.33 million. a) How does PG&E estimate the wildfire risk and the \$14.33 million risk reduction estimates actual values? b) Please explain the methodology PG&E used to estimate the wildfire risk and the \$14.33 million risk reduction estimates. c) Do the \$20.88 million wildfire risk and the \$14.33 million risk reduction estimates apply to PG&E's entire service territory? Please explain the methodology PG&E used.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-02 - PIPS and Wildfire Risk Trade-Off Transparency		
579	CAIPA	Set WMP/44	CAIPA_Set WMP/44_09	9	CAIPA_Set WMP/44_09	a) Please provide copies of any reports, analyses, or other documentation to support PG&E's statement quoted in the response to question 578. b) How does PG&E estimate the incremental lifetime expenditure when calculating the cost effectiveness scores for the underpinning projects in PG&E's current workforce? c) If the answer to part (b) is yes, please describe the methodology PG&E will use to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce. d) If the answer to part (b) is no, please explain why not. e) How does PG&E estimate the incremental lifetime expenditure when calculating the cost effectiveness scores for the underpinning projects in PG&E's current workforce? f) Please describe the methodology PG&E will use to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce. g) Please describe the methodology PG&E will use to calculate the cost effectiveness scores for the underpinning projects in PG&E's current workforce.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-14 - Effectiveness Analysis for EPSS Including Implementation of DCD		
580	CAIPA	Set WMP/44	CAIPA_Set WMP/44_10	10	CAIPA_Set WMP/44_10	The following table is from PG&E's 2022 Annual Electric Reliability Report, page 12: a) Please provide an updated version of this table with an additional row for 2023. b) PG&E is unable to provide any of the requested data from part (a). Please provide a reason for each data point that was not available. c) PG&E is unable to provide any of the requested data from part (a). Please provide a reason for each data point that was not available.	Noly Wellman	4/15/2024	4/18/2024			NA	NA	NA	NA		
581	CAIPA	Set WMP/44	CAIPA_Set WMP/44_11	11	CAIPA_Set WMP/44_11	Page 97 of PG&E's 2025 WMP Update states: a) Please provide the methodology used to estimate the risk reduction for each station. b) Please provide the methodology used to estimate the risk reduction for each station. c) Please provide the methodology used to estimate the risk reduction for each station. d) Please provide the methodology used to estimate the risk reduction for each station. e) Please provide the methodology used to estimate the risk reduction for each station. f) Please provide the methodology used to estimate the risk reduction for each station. g) Please provide the methodology used to estimate the risk reduction for each station. h) Please provide the methodology used to estimate the risk reduction for each station. i) Please provide the methodology used to estimate the risk reduction for each station. j) Please provide the methodology used to estimate the risk reduction for each station.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-19 - Continued Progression of Vegetation Management Maturity		
582	CAIPA	Set WMP/44	CAIPA_Set WMP/44_12	12	CAIPA_Set WMP/44_12	a) Please describe the methodology used to estimate the risk reduction for each station. b) Please describe the methodology used to estimate the risk reduction for each station. c) Please describe the methodology used to estimate the risk reduction for each station. d) Please describe the methodology used to estimate the risk reduction for each station. e) Please describe the methodology used to estimate the risk reduction for each station. f) Please describe the methodology used to estimate the risk reduction for each station. g) Please describe the methodology used to estimate the risk reduction for each station. h) Please describe the methodology used to estimate the risk reduction for each station. i) Please describe the methodology used to estimate the risk reduction for each station. j) Please describe the methodology used to estimate the risk reduction for each station.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-20 - Weather Station Maintenance and Calibration		
583	CAIPA	Set WMP/44	CAIPA_Set WMP/44_13	13	CAIPA_Set WMP/44_13	Table ACI-PGE-23-20-range 1.19 of PG&E's 2025 WMP Update includes the following entry: a) Please describe the methodology used to estimate the risk reduction for each station. b) Please describe the methodology used to estimate the risk reduction for each station. c) Please describe the methodology used to estimate the risk reduction for each station. d) Please describe the methodology used to estimate the risk reduction for each station. e) Please describe the methodology used to estimate the risk reduction for each station. f) Please describe the methodology used to estimate the risk reduction for each station. g) Please describe the methodology used to estimate the risk reduction for each station. h) Please describe the methodology used to estimate the risk reduction for each station. i) Please describe the methodology used to estimate the risk reduction for each station. j) Please describe the methodology used to estimate the risk reduction for each station.	Noly Wellman	4/15/2024	4/18/2024			NA	11.4	Appendix D	11.4 ACI PGE-23-20 - Weather Station Maintenance and Calibration		
584	CAIPA	Set WMP/44	CAIPA_Set WMP/44_14	14	CAIPA_Set WMP/44_14	Table ACI-PGE-23-20-range 1.19 of PG&E's 2025 WMP Update includes the following entry: a) Please describe the methodology used to estimate the risk reduction for each station. b) Please describe the methodology used to estimate the risk reduction for each station. c) Please describe the methodology used to estimate the risk reduction for each station. d) Please describe the methodology used to estimate the risk reduction for each station. e) Please describe the methodology used to estimate the risk reduction for each station. f) Please describe the methodology used to estimate the risk reduction for each station. g) Please describe the methodology used to estimate the risk reduction for each station. h) Please describe the methodology used to estimate the risk reduction for each station. i) Please describe the methodology used to estimate the risk reduction for each station. j) Please describe the methodology used to estimate the risk reduction for each station.	Noly Wellman	4/15/2024	4/18/2024	4/18/2024		NA	6.2.2.2	6.0: Risk Methodology and Assessment	6.2.2.2 Consequences		
585	MSRA	Date Request No. 11	MSRA_Data_Request No. 11	1	MSRA_Data_Request No. 11_C1	Please provide non-confidential version of any responses to C&I Admittable data requests if responses to C&I Admittable are confidential.	Joseph Mitchell	4/16/2024	4/19/2024			NA	6.2.1	6.0: Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification		
586	MSRA	Date Request No. 11	MSRA_Data_Request No. 11	2	MSRA_Data_Request No. 11_C2	Please provide non-confidential version of any responses to C&I Admittable data requests if responses to C&I Admittable are confidential.	Joseph Mitchell	4/16/2024	4/19/2024			NA	6.2.1	6.0: Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification		

SR	MSRA	Date Requested	MSRA Data Request No. 11	3	MSRA Data Request No. 11_Q3	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Joseph Mehall	4/16/2024	4/19/2024				NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
587	CaPA	Set WMP-46	CaPA_Set WMP-46_01	1	CaPA_Set WMP-46_01	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Joseph Mehall	4/16/2024	4/19/2024				NA	6.2.1	6.0 Risk Methodology and Assessment	6.2.1 Risk and Risk Component Identification
588	CaPA	Set WMP-46	CaPA_Set WMP-46_02	1	CaPA_Set WMP-46_02	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	11.4	Appendix D		NA
589	CaPA	Set WMP-46	CaPA_Set WMP-46_03	2	CaPA_Set WMP-46_03	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8.1.3.1.4	8.0 Wildlife Mitigations	8.1.3.1.4 Infrared Inspection	
590	CaPA	Set WMP-46	CaPA_Set WMP-46_04	3	CaPA_Set WMP-46_04	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
591	CaPA	Set WMP-46	CaPA_Set WMP-46_05	4	CaPA_Set WMP-46_05	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
592	CaPA	Set WMP-46	CaPA_Set WMP-46_06	5	CaPA_Set WMP-46_06	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
593	CaPA	Set WMP-46	CaPA_Set WMP-46_07	6	CaPA_Set WMP-46_07	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
594	CaPA	Set WMP-46	CaPA_Set WMP-46_08	7	CaPA_Set WMP-46_08	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
595	CaPA	Set WMP-46	CaPA_Set WMP-46_09	8	CaPA_Set WMP-46_09	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	
596	CaPA	Set WMP-46	CaPA_Set WMP-46_10	9	CaPA_Set WMP-46_10	Requester: For another consulting group has analyzed WORM v8, please provide a nonconfidential internal document.	Holly Wetman	4/17/2024	4/22/2024			NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)	

597	CMPA	Set WMP-46	CalPA_Set WMP-46	10	CalPA_Set WMP-46_Q10	<p>In response to data request CalAdvocates-PGE-2023WMP-Q3, question 1, PG&E provided attachment "WMP-Discovery(2022-2023)_DR_CalAdvocates_0328-0504040401.xlsx," which relates to several inspections in 2023. Line 16 indicates that, out of 2520 distribution intrusive pole inspections reviewed by desktop QC, 1672 failed QC review.</p> <p>Line 17 indicates that, out of 1491 distribution intrusive pole inspections reviewed by field QC, 1021 failed QC review.</p> <p>a) Has PG&E made any changes to its intrusive inspection practices for distribution pole inspections as a result of the high QC failure rates?</p> <p>b) If the answer to part (a) is yes, describe the changes PG&E has made.</p> <p>c) Provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer to part (b).</p> <p>d) If the answer to part (a) is no, state why not.</p> <p>e) Has PG&E made any changes to its QC review process for intrusive inspections of distribution poles as a result of the high QC failure rates?</p> <p>f) If the answer to part (e) is yes, describe the changes PG&E has made.</p> <p>g) Provide any relevant procedures, specifications, job aids, bulletins, or other documentation to support your answer to part (f).</p> <p>h) If the answer to part (e) is no, state why not.</p> <p>i) Please describe any other actions PG&E took as a result of the high QC failure rates in 2023 noted above.</p> <p>j) What were the primary reasons for distribution intrusive pole inspections to fail desktop QC review in 2023?</p> <p>k) What were the primary reasons for distribution intrusive pole inspections to fail field QC review in 2023?</p>	Holly Weisman	4/17/2024	4220024					NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
-----	------	------------	------------------	----	----------------------	---	---------------	-----------	---------	--	--	--	--	----	---	---	--------------------------------