

Count	Party Name	Data Set	Data Request	Question No.	Supplier	Question ID	Question Text	Responses	Requestor	Date Rec'd	First due Date	Date Sent	Links	Number of ACIs	NGA Required	2023 WMP Section	Category	Subcategory
1	TURN	002	TURN_002	1	No	TURN_002_01	Section 5.2.1, page 57 states, "starting in January 2023, PG&E incorporated additional customers who could be impacted into the PSPS consequence model and classified them as 'Potentially-Impacted Customers (PICs)'. a. How were the PIC selected? b. How were they initially identified? c. Please explain the basis for PG&E's belief that "not every customer who could experience a PSPS event is captured in the historical backdrop." d. Regarding the statement on page 57 that "This enables the calculation of roughly double the potentially-affected customers ...," please provide the specific data on which this statement is based.	Please note that, PG&E no longer accounts for Potentially Impacted Customers (PICs) in its PSPS consequence model due to the low incremental risk values associated with customers that were not included in our backdrop. Thus, the statement on page 57 of the 2023-2028 WMP is historical in nature. a. The selection criteria for PICs were created by using our distribution planning results under the scenario of "and if every distribution line in HTDFHRA is required to be de-energized." b. Potentially impacted customers (i.e., all customers who would be impacted by the theoretical de-energization of every HTDFHRA distribution line) were identified through our distribution planning studies. c. The inclusion of PICs results in an increased risk value with customers in locations where PSPS thresholds were not met in our historical backdrop, but have exposure to PSPS in our based on HTDFHRA location and system configuration. This evaluation does not include the addition of new consequences. d. The meaning behind this statement is that this is a low probability event, and the intent was to assign risk exposure to customers that are not accounted for in PG&E's traditional backdrop. This is because our backdrop is based on historical weather conditions that have met PSPS thresholds to initiate a PSPS event. This is not to say that locations in HTDF that have never met PSPS thresholds could not see an event in the future. e. This statement is based on the idea that all customers that would be impacted by the theoretical de-energization of every HTDFHRA distribution line, minus the unique customers included in our backdrop.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	0	No	5	Risk Methodology & Assessment	5.2.1
2	TURN	002	TURN_002	2	No	TURN_002_02	Section 5.2.2.1 page 63 provides the formula for PSPS Backdrop. Please explain why 5 years was selected as the denominator?	PG&E's backdrop is used to estimate PSPS consequence and includes 2016-2022 data (5 years). This is to align with the initiation and execution of PSPS events in 2016. PG&E's enterprise risk model also includes an additional 2 years of data (2023-2024) that was not included in the existing backdrop due to meteorological patterns not being available at the time of the analysis. To address this, we use PG&E's actual PSPS events but determined the customer impact by de-energizing the upstream devices as would be specified under our most recent PSPS guidance and protocols.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	0	No	5	Risk Methodology & Assessment	5.2.2.1
3	TURN	002	TURN_002	3	No	TURN_002_03	Section 6.1.2, page 118 states that, instead of undergrounding, "in certain circumstances we may choose to overhead harden a circuit segment or portion of a circuit segment because of feasibility constraints." Please identify and explain each and every criterion that PG&E would use to determine that feasibility constraints have reached the point that PG&E would choose overhead hardening over undergrounding and how PG&E would decide, based on those criteria, that overhead hardening is the best choice.	PG&E objects to this request as it is overbroad, vague, ambiguous, and unduly burdensome. It is not possible to identify every single criterion that PG&E could use in evaluating the feasibility of a project. Misunderstanding and without mixing the objection, PG&E responds as follows: The feasibility of installing underground infrastructure can vary significantly across PG&E's service area, and therefore, the specific circumstances and facts must be evaluated for each case. Certain conditions may necessitate overhead hardening instead of undergrounding due to feasibility constraints. These conditions may include, but are not limited to: • Culturally Restricted Areas: Locations where underground installation may not be permitted due to cultural or historical considerations. • Geographical Challenges: Situations such as large water crossings where bridge attachments are not possible or large canyon crossings where no reasonable underground path exists. • Legal Land Use Constraints: Land use designations that require the necessary easements or rights to install underground infrastructure. • WMP-Discovery 2025-2028, DR, TURN_002-0001 Page 2 • Geological Conditions: Presence of hard rock or granite terrain, where excavation costs are prohibitively high. These feasibility constraints are reviewed during the scoping process, and the associated risks are included in mitigation cost analyses, such as the Cost-Benefit Ratio (CBR). This evaluation may lead to choosing a hybrid solution in some cases. In other instances, feasibility concerns appear later in the project lifecycle. When this occurs, decisions regarding overhead hardening versus undergrounding are made based on financial implications, timing considerations, risk assessment, and constructability challenges. This ensures that the selected approach is the most feasible and effective given the circumstances.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.2
4	TURN	002	TURN_002	4	No	TURN_002_04	Section 6.1.3.1, page 120, states, "While undergrounding is PG&E's preferred solution for mitigating system risk in the highest risk areas, we recognize that undergrounding takes longer to execute than overhead hardening and is a more costly investment over the short term." and "Covered conductors can generally be installed more quickly and at lower cost than undergrounding, but it does not protect against low voltage risk or fully address the reliability risk." and concludes that "undergrounding, where feasible, is the best alternative to overhead hardening." This conclusion does not address the information provided in Table 6.1.3-1 on page 128. Please explain why the cost and timing of undergrounding, which the table provides has a 98-99% average effectiveness, is preferred to the combination of covered conductor, EPSS, and PSPS, which the table provides has a 97% average effectiveness.	We disagree that this conclusion is not addressed. On page 128, we stated that "[t]he continued use of covered conductors, EPSS, and PSPS introduces a high likelihood of system outage risk and is a disservice to our customers." As further and more fully described in Section 6.1.3.2 (pg. 134-135) and in PG&E's 2023 WMP Update, ACJ 23-05 (pg. 50-57), PG&E recognizes that overhead hardening can be installed more quickly than an undergrounding solution; however, the latter risk reduction achieved from quicker installation of an overhead mitigation does not compensate for the greater total, more permanent risk reduction achieved over the lifetime of an underground solution. Undergrounding is preferred to the combination of covered conductors, EPSS, and PSPS because it truly eliminates wildfire risk. We expect undergrounding to also reduce reliability risk and the need to operate and maintain overhead equipment and clearing vegetation around the overhead facilities. PG&E's intent is to significantly reduce reliability impacts of outage programs and to offer new permanent solutions to the highest risk areas.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
5	TURN	002	TURN_002	5	No	TURN_002_05	Regarding Table PG&E 6.1.3-1 on page 128, please provide the supporting data on which the "Blended Average Effectiveness" values for Rows 4, 5, and 6 are based.	Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet. Line 4: System Hardening Mitigation Blended Average Effectiveness (a) Notes: 2015-2024 1 Undergrounding All (b) 90% See "Effectiveness Analysis" tab for supporting data Undergrounding Primary Distribution Lines (c) 98% See "Effectiveness Analysis" tab for supporting data Line Removal with Remote Cold 80% See "Effectiveness Analysis" tab for supporting data Covered Conductor + EPSS + PSPS (d) 97% Calculated value using formula outlined in footnote (c). See 4a, 4b, and 4c for input data for the calculation and the associated data sources. Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet. Line 5: System Hardening Mitigation Blended Average Effectiveness (a) Notes: 2015-2024 1 Undergrounding All (b) 90% See "Effectiveness Analysis" tab for supporting data Undergrounding Primary Distribution Lines (c) 98% See "Effectiveness Analysis" tab for supporting data Line Removal with Remote Cold 80% See "Effectiveness Analysis" tab for supporting data Covered Conductor + EPSS + PSPS (d) 97% Calculated value using formula outlined in footnote (c). See 4a, 4b, and 4c for input data for the calculation and the associated data sources. Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet. Line 6: System Hardening Mitigation Blended Average Effectiveness (a) Notes: 2015-2024 1 Undergrounding All (b) 90% See "Effectiveness Analysis" tab for supporting data Undergrounding Primary Distribution Lines (c) 98% See "Effectiveness Analysis" tab for supporting data Line Removal with Remote Cold 80% See "Effectiveness Analysis" tab for supporting data Covered Conductor + EPSS + PSPS (d) 97% Calculated value using formula outlined in footnote (c). See 4a, 4b, and 4c for input data for the calculation and the associated data sources. Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
6	TURN	002	TURN_002	6	No	TURN_002_06	Section 6.1.3.2, page 134, states: "Overhead system hardening combined with operations mitigation, EPSS and PSPS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations." PG&E continues to prefer undergrounding or high-risk circuits where feasible for several reasons. Undergrounding is permanent but reduction that does not have the negative reliability impacts from PSPS and EPSS. Underground facilities are less likely to be damaged during winter storms by high winds and vegetation falling on the lines damaging the facilities or other contact with the lines from third parties. Over time, undergrounding also has lower operations and maintenance expenses. a. Please provide any studies or reports in PG&E's possession that compare the long-term or life cycle costs of undergrounding with the costs of overhead hardening combined with EPSS and PSPS. b. Please provide any studies or reports in PG&E's possession that compare the long-term or life cycle costs of undergrounding with the costs of overhead hardening combined with EPSS, PSPS, and remote grade to reduce the reliability impacts of EPSS and PSPS. c. Please provide any studies or reports in PG&E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening. d. Please provide any studies or reports in PG&E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening, combined with EPSS and PSPS. e. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounding vs. overhead hardened facilities. f. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounding vs. overhead hardened facilities, not including the reliability impacts of PSPS and EPSS.	Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet. Line 6: System Hardening Mitigation Blended Average Effectiveness (a) Notes: 2015-2024 1 Undergrounding All (b) 90% See "Effectiveness Analysis" tab for supporting data Undergrounding Primary Distribution Lines (c) 98% See "Effectiveness Analysis" tab for supporting data Line Removal with Remote Cold 80% See "Effectiveness Analysis" tab for supporting data Covered Conductor + EPSS + PSPS (d) 97% Calculated value using formula outlined in footnote (c). See 4a, 4b, and 4c for input data for the calculation and the associated data sources. Please refer to "www.campdenprocurement.com/procurement-notices" for the table below is a summary of references for the supporting data for each of the Blended Average Effectiveness values from Table PG&E 6.1.3-1 in the attached Excel sheet.	A Miraflo Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/customers/pge/docs/outages-and-safety/inquiries-requests-and-answers/2023-2028-turn_002.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2

6	TURN	002	TURN_002	6(x)	Yes	TURN_002_OB(x)	Section 6.1.3.2, page 134, states: "Overhead system hardening combined with operations mitigations EPSS and PSPS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations. PG&E continues to prefer undergrounding on high-risk circuits where feasible for several reasons. Undergrounding is permanent risk reduction that does not have the negative reliability impacts from PSPS and EPSS. Undergrounding also has the benefit of being damaged during winter storms by high winds and vegetation falling into them damaging the facilities or other assets both less than from third parties. Over time, undergrounding also has lower operations and maintenance expenses." a. Please provide any studies or reports in PG&E's possession that compare the long-term life cycle costs of undergrounding with the costs of overhead hardening combined with EPSS and PSPS. b. Please provide any studies or reports in PG&E's possession that compare the long-term life cycle costs of undergrounding with the costs of overhead hardening combined with EPSS and PSPS, and remote grids to reduce the reliability impacts of EPSS and PSPS. c. Please provide any studies or reports in PG&E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening. d. Please provide any studies or reports in PG&E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening, combined with EPSS and PSPS. e. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounded vs. overhead hardened facilities. f. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounded vs. overhead hardened facilities – not including the reliability impacts of PSPS and EPSS.	4. PG&E analyzed the reliability performance on sections of circuits where we performed undergrounding work in 2022 and 2023 to quantify overall improvements to service reliability and showed approximately a 50% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 8.2.2 of our 2025-2028 WMP. Please note that this analysis did not compare undergrounding to overhead hardening. Please refer to Section 8.2.1.2 for PG&E's explanation of risk impacts of mitigation activities including covered conductor and undergrounding. PG&E is not currently aware of any studies or reports in PG&E's possession that compare the reliability of undergrounded and overhead hardened facilities. Ultimately, we expect undergrounding to be less acceptable to outage-causing conditions associated with exposed overhead lines such as damage and/or vegetation contact from severe winds, animal contact, the clear or wire down. PG&E analyzed the reliability performance on sections of circuits where we performed undergrounding work in 2022 and 2023 to quantify overall improvements to service reliability and showed approximately a 50% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 8.2.2 of our 2025-2028 WMP. Please note that the analysis did not compare undergrounding to overhead hardening. We are not aware of any studies or reports that are in our possession that compare the reliability of undergrounded vs. overhead hardened facilities—not including the reliability impacts of PSPS and EPSS; however, we expect undergrounded lines to be less acceptable to outage-causing conditions associated with exposed overhead lines such as damage and/or vegetation contact from severe winds, animal contact, the clear or wire down.	A Mirella Full-Fly	4/7/2025	4/14/2025	4/14/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.13.2
7	TURN	002	TURN_002	7	No	TURN_002_07	The microgrids discussed in 8.2.7 are said to not impact reliability because they are not dependent on upstream lines. Do they increase reliability in areas where they have been installed and can they be deployed in other circumstances where other hardening mitigations to increase reliability concern?	Section 8.2.7 addresses three microgrid related initiatives. Remote Grids Remote grids are not connected to the distribution system, as they place generation assets right at the customer locations and the upstream distribution line to that location is removed. Therefore, any reliability concerns due to outages from the upstream distribution system are eliminated in the Remote Grid system architecture. Temporary Distribution Microgrids These microgrids are not set to automatically energize upon an outage condition; they are normally intended to isolate and energize the microgrid footprint once the PSPS event has de-energized the area. In a pre-planned, pre-engineered, pre-tested manner due to its inherent design. While it is possible that they could be utilized during unplanned or planned outages, it would be highly dependent upon whether the temporary generation assets are pre-planned at the location, whether the microgrid is able to isolate and energize a single microgrid, or whether the microgrid is able to isolate and energize multiple microgrids (and subsequently returning back to service). It is actually beneficial from an outage duration standpoint because simply parking the microgrid and restoring the outage condition. Since these temporary distribution microgrids utilize microgeneration, generating assets, the ability to automatically energize these locations is not available. Community Microgrid Enablement Program and Microgrid Incentive Program WMP-Chapter 2025-2028, DR, TURN_002-0000 Page 2 These microgrids are community driven and could increase reliability in areas where they are installed, but are dependent upon the condition and nature of the outages and the pre-design of the microgrid footprint that determines its conditions for safe operation. Each microgrid being requested to be designed by these communities through these funds are unique and therefore their impact on reliability is dependent upon their design, operational capabilities, and the communities desired objectives.	A Mirella Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.7
8	TURN	002	TURN_002	8	No	TURN_002_08	Section 7, page 170, states that "during the July 2, 2024, PSPS event, we were able to reduce the event duration for some customers by temporarily re-energizing a line that serves a portion of the impacted customers." and why may offer temporary re-energization during future PSPS events where conditions allow? What conditions are necessary to replicate partial or temporary re-energization during PSPS events?	As described Section 7, page 170 "PSPS Lessons Learned" and explained in PG&E's post de-energization report for the July 2, 2024 PSPS event, two severe wind events were forecasted to come in separate back to back waves. The first wind event meeting PSPS criteria occurred during overnight period of July 1-2 with a brief lull in the winds that occurred during the day of July 2. The second forecasted wave of critical line weather conditions meeting our PSPS criteria was forecasted to occur later in the evening which allowed us to partial and temporarily re-energize the portion of the customers who were impacted by the first wave to allow customers to cool their homes and charge their devices. On the evening of July 2, weather conditions deteriorated rapidly meeting our PSPS criteria and requiring us to re-energize a second time as a result of the second wave of severe weather conditions. We have the following list for July 2, 2024 PSPS event de-energization report: Event Report, 20240702-0000000 These page summarizes the knowledge and safety/outage preparedness and support for PG&E, Post-Event Report, 20240702-0000000 Generally, conditions that allow PG&E to temporarily re-energize during PSPS events are the full or critical weather conditions. The full period would need to have a brief time for our crews to patrol following the weather all-clear. Weather "All-Clear" are called based on pre-defined, geographic areas and mapping of each weather station in each zone to that area. WMP-Chapter 2025-2028, DR, TURN_002-0000 Page 2 Please note that the specific conditions that arose during the July 2, 2024 event allowed PG&E to temporarily re-energize a portion of the affected customers, but that such temporary re-energization is condition and event-specific and not a programmatic mitigation strategy to reduce PSPS duration.	A Mirella Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	7	Public Safety Power Shutoff	7
9	TURN	002	TURN_002	9	No	TURN_002_09	Please fill in the values in the following table (all units are miles):	Please see attachment "WMP-Chapter 2025-2028, DR, TURN_002-00000001.xlsx". The following considerations and assumptions are applied to this response: a. If a subproject spans multiple High Fire-Threat District (HFTD) tiers, the subproject is attributed to the higher tier (e.g., if a subproject falls under both Tier 2 and Tier 3, its mileage is attributed to Tier 3). b. For data on overhead miles replaced by undergrounding: 1. For subprojects that are 100% undergrounding with available overhead removal data, the reported figures reflect the overhead miles removed. 2. For hybrid subprojects (partially underground and a combination of overhead hardening and/or line removal) or cases where overhead removal data is unavailable, miles are calculated using a conversion factor: 1 mile of overhead equals 1.25 miles of undergrounding. WMP-Chapter 2025-2028, DR, TURN_002-0000 Page 2 Since the template does not request miles completed outside HFTDs, this response excludes system hardening work under the Community Rebuild program. The original table requested both 2023 actuals and planned miles. We updated our response to include actuals through 2024 and planned miles for 2025. 4. PG&E is incorporating our cable-stayed tower (CST) for our administrative framework in anticipation of this requirement as part of the 10-year Electrical Undergrounding Plan (EUP). The Commission has stated that "the utility is not bound to select a mitigation strategy based solely on the CBRs produced by the Cost-Benefit Approach," supporting the concept that CBR does not need to be the sole determinant of risk mitigation strategies. This is because an over-emphasis on CBR devalues high cost / high benefit projects. CBR does not consider the absolute benefits and realistic value of permanent risk mitigations, and when used as the sole criteria, results in situations where risk is permanently left on the system, including on critical segments where undergrounding benefits are greater than those of overhead hardening. In our decision tree, CBR is used as the primary criteria for selecting mitigation measures. However, for undergrounding (UG) projects where the benefits are more favorable than OH hardening + EPSS, these projects will also be considered. provided their cost-benefit ratio falls within an acceptable range relative to the CBR of overhead hardening projects. The 50% threshold is a discretionary value intended to ensure that CBR remains a key consideration, while also allowing for the engineering team to weigh the full range of benefits, including mitigation of true safety risks, reliability risks created by operational mitigations, and engineering considerations, which are often not fully quantified in CBR or risk calculations. In these cases, the CBR must also be greater than 1, indicating the benefits of the mitigation outweigh its costs. 5. PG&E's approach to system hardening has been, and continues to be, to begin with the mitigation alternative that permanently reduces the greatest amount of risk, which is undergrounding and line removal with remote grid. If these mitigations do not meet our economic decision criteria, we consider overhead hardening where it may be considered more effective than undergrounding. 6. PG&E describes what the true at-risk scores are and how they are calculated in our 2022 WMP (PG&E's Rawest 2022 WMP, July 26, 2022, pages SA-584-SA-585). The scores represent the number of full-inches that can touch and break a hardened overhead line. Scores greater than or equal to 6 represent a moderate or greater true full-in risk. 7. The PSS considers many factors when evaluating ingress and egress concerns, and	A Mirella Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
10	TURN	002	TURN_002	10	No	TURN_002_10	Please provide a narrative explanation of the decision tree shown in figure 8.2.1-2, including any criteria that PG&E intends to use to determine if conditions in the decision tree are met. a. Figure 8.2.1-2 appears to indicate that UG is preferred when CBR is 1 and within 50% of the CH + EPSS CBR and UG MI is CH + CH MI. Please explain the basis for the figure of 50%. b. It appears that the decision tree begins with UG as the default option and only moves to alternative when certain criteria are not met. Why doesn't PG&E begin with the more cost-effective hybrid approach and move to UG when absolutely necessary? c. Please explain the true at-risk scores and how they are determined? Why is a score of 6+ significant? d. Please identify and explain each and every criterion that is considered in determining "Are these Egress/ingress concerns represented by PSS layout? Please provide a narrative explanation of the types of concerns and how they impact risk. e. Please provide a narrative explanation of the PSS polygon and the effect on CRP. f. At any point in the decision tree, are the hybrid project CBRs recalculated based on different permutations/combinations?	Please see attachment "WMP-Chapter 2025-2028, DR, TURN_002-00000001.xlsx". The following considerations and assumptions are applied to this response: a. If a subproject spans multiple High Fire-Threat District (HFTD) tiers, the subproject is attributed to the higher tier (e.g., if a subproject falls under both Tier 2 and Tier 3, its mileage is attributed to Tier 3). b. For data on overhead miles replaced by undergrounding: 1. For subprojects that are 100% undergrounding with available overhead removal data, the reported figures reflect the overhead miles removed. 2. For hybrid subprojects (partially underground and a combination of overhead hardening and/or line removal) or cases where overhead removal data is unavailable, miles are calculated using a conversion factor: 1 mile of overhead equals 1.25 miles of undergrounding. WMP-Chapter 2025-2028, DR, TURN_002-0000 Page 2 Since the template does not request miles completed outside HFTDs, this response excludes system hardening work under the Community Rebuild program. The original table requested both 2023 actuals and planned miles. We updated our response to include actuals through 2024 and planned miles for 2025. 4. PG&E is incorporating our cable-stayed tower (CST) for our administrative framework in anticipation of this requirement as part of the 10-year Electrical Undergrounding Plan (EUP). The Commission has stated that "the utility is not bound to select a mitigation strategy based solely on the CBRs produced by the Cost-Benefit Approach," supporting the concept that CBR does not need to be the sole determinant of risk mitigation strategies. This is because an over-emphasis on CBR devalues high cost / high benefit projects. CBR does not consider the absolute benefits and realistic value of permanent risk mitigations, and when used as the sole criteria, results in situations where risk is permanently left on the system, including on critical segments where undergrounding benefits are greater than those of overhead hardening. In our decision tree, CBR is used as the primary criteria for selecting mitigation measures. However, for undergrounding (UG) projects where the benefits are more favorable than OH hardening + EPSS, these projects will also be considered. provided their cost-benefit ratio falls within an acceptable range relative to the CBR of overhead hardening projects. The 50% threshold is a discretionary value intended to ensure that CBR remains a key consideration, while also allowing for the engineering team to weigh the full range of benefits, including mitigation of true safety risks, reliability risks created by operational mitigations, and engineering considerations, which are often not fully quantified in CBR or risk calculations. In these cases, the CBR must also be greater than 1, indicating the benefits of the mitigation outweigh its costs. 5. PG&E's approach to system hardening has been, and continues to be, to begin with the mitigation alternative that permanently reduces the greatest amount of risk, which is undergrounding and line removal with remote grid. If these mitigations do not meet our economic decision criteria, we consider overhead hardening where it may be considered more effective than undergrounding. 6. PG&E describes what the true at-risk scores are and how they are calculated in our 2022 WMP (PG&E's Rawest 2022 WMP, July 26, 2022, pages SA-584-SA-585). The scores represent the number of full-inches that can touch and break a hardened overhead line. Scores greater than or equal to 6 represent a moderate or greater true full-in risk. 7. The PSS considers many factors when evaluating ingress and egress concerns, and	A Mirella Full-Fly	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1-2
11	OES	001	OES_001	1	No	OES_001_01	Regarding Vegetation Management QA and QC Units On page 410 of the 2025-2028 WMP, PG&E lists "inspections" as the "Population Size/Sample Unit" for VM-Q00, VM-Q01, VM-Q02, and VM-Q03. However, in the "Sample Size" column, PG&E uses a different unit, listing the number of miles (VM-Q00, VM-Q01, and VM-Q02) and acres (VM-Q03). That is not unit. a. Differently what constitutes an "inspection" unit? b. If PG&E really does discrete inspections rather than the entire length of a segment, reproduce Table 9.4 "Vegetation Management QA and QC Activity" with: 1. An estimated total number of inspections it could potentially audit under the 2026, 2027, and 2028 "Sample Size" columns. 2. For VM-Q01 units, PG&E lists "miles" in "Population Size" column, "acres" in "Sample Size," and "inspections" in the "Population/Sample Unit." Clarify the unit used for VM-Q01.	4. For VM-Q2 D&T, an inspection unit will be the location of overhead electric facilities inspected by Vegetation Management (VM) Operations. 5. For VM-Q3 D&T, an inspection unit will consist of overhead line segments QA/QC work will be performed along the length of the sample segment/locations. Both, VM-Q1 and VM-Q2 inspection units and line work activities can be evaluated in the same area. 6. NA, please see response B. 7. NA. 8. The population provides the total estimated volume of overhead transmission facilities in HFTD. The sample size is the minimum volume of VM QC transmission inspected locations to verify. As noted above, for VM-Q2, an inspection unit will be the location of overhead electric facilities inspected by Vegetation Management (VM) Operations. See the footnote above for more detail.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	9	Vegetation Management & Inspections	9.11
12	OES	001	OES_001	2	No	OES_001_02	Regarding Vegetation Management QA and QC Units On page 410 of the 2025-2028 WMP, PG&E specifies that 100% of QA/QC samples are from locations within the HFTD. a. Does PG&E perform QA/QC in its HFRAs? b. If yes, describe the QA/QC program in its HFRAs. c. If not, why does it not extend its QA/QC program to its HFRAs? d. Does PG&E perform QA/QC in non-HFTD areas? e. If yes, describe the QA/QC program in non-HFTD areas. f. If not, why does it not extend its QA/QC program to non-HFTD areas?	4. Yes, QC and QA will perform assessments in HFRAs. 5. PG&E QA/QC will be conducted the same in HFRAs as elsewhere. 6. NA. 7. Yes, QC and QA will perform assessments in both HFTD and non-HFTD areas. 8. PG&E QA and QC will be conducted the same in non-HFTD as elsewhere. 9. NA.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/turning_the_page_to_undergrounding.pdf	0	No	9	Vegetation Management & Inspections	9.11

29	OEB	001	OEB_001	19	No	OEB_001_Q19	Regarding CC and Undergrounding in Fire Rebuild Areas On page 186 of the WMP, PG&E states, "PG&E often refers to areas that have been impacted directly by wildfires within an HFTD as "Fire Rebuild" work. Work in areas impacted by wildfires outside of an HFTD area is referred to as "Community Rebuild" work." Provide the targets for the "Overhead Hardening and Line Removal - Distribution (GH-12)" and "System Hardening - Undergrounding (GH-04)" activities for 2026 to 2028 which are designated as "Fire Rebuild" or "Community Rebuild." Provide your response in the table below.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.18.2.2
30	OEB	001	OEB_001	20	No	OEB_001_Q20	Regarding the CBR Calculation in Area for Continued Improvement PG&E-25U-04 In response to Area for Continued Improvement PG&E-25U-04, PG&E discusses the methodology used for its CBR calculation on page 572. The discussion does not include how PG&E calculated the "eyes-on-risk" achieved by a detailed aerial inspection vs. an aerial scan inspection. a. Does PG&E assume that an aerial scan achieves the same eyes-on-risk as a detailed aerial inspection? If yes, discuss how PG&E determined an aerial scan achieves the same eyes-on-risk as a detailed aerial inspection. This discussion must include a description of differences in the process and execution of aerial scans vs. aerial detailed inspections (i.e., photograph locations, equipment required to be photographed, photograph quality per inspection, photograph clarity requirements, reviewer inspection checklist, etc.) b. If no, provide the following calculations: A. The eyes-on-risk of a detailed aerial inspection on an asset in an area of extreme consequence and extreme wildfire risk. B. The eyes-on-risk of a detailed aerial inspection on an asset in an area of severe consequence and severe wildfire risk. C. The eyes-on-risk of an aerial scan inspection on the same asset. D. The eyes-on-risk of a detailed aerial inspection on an asset in an area of high consequence and high wildfire risk. E. The eyes-on-risk of an aerial scan inspection on the same asset.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	ACI PG&E-25U-04	ACI PG&E-25U-04	ACI PG&E-25U-04
31	OEB	001	OEB_001	21	No	OEB_001_Q21	Regarding Aerial Scan Inspections On page 236 of the 2026-2028 Base WMP, PG&E states that aerial scan inspections will be implemented to get additional eyes-on-risk in the riskiest areas. PG&E states that the inspection will consist of a review of a "curated set of photos, tailored to enable the identification of the conditions... that pose the highest wildfire risk." a. Provide a comprehensive list of the differences between aerial scan and aerial distribution detailed inspections (i.e., the number of photographs taken, the equipment photographed, the distance from camera to equipment being photographed, the number of photographs being reviewed, time on the reviewer's inspection checklist, etc.). b. Provide documentation that supports this list of differences (e.g., risk, inspection checklist, etc.).	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.3.8.3.14
32	OEB	001	OEB_001	22	No	OEB_001_Q22	Regarding Real Time Sensors On page 227 of the 2026-2028 Base WMP, PG&E states that it is piloting real time sensors that may collect data in the future can be used in lieu of aerial scan inspections. a. Provide a list of sensors that are being piloted from 2026-2028. b. For each sensor provide the following information: i. Model number/series ii. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) iii. Current phase of pilot (planning, execution, evaluation, scaling) iv. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	10	Situational Awareness and Forecasting	10.4/10.31
33	OEB	001	OEB_001	23	No	OEB_001_Q23	Regarding Projected Risk Reduction On page 147 of the 2026-2028 Base WMP, PG&E provides Figure 6-1: Projected Overall Service Territory Risk, showing the residual risk over time with resiliency mitigation and operational mitigations. a. Provide similar versions of this figure showing the associated projected risk reduction for wildfire risk, PSPS risk, and PGES risk over time. b. From 2026 to 2028, PG&E shows a projected reduction in overall utility risk of approximately one percent when only accounting for resiliency mitigations, but only a reduction of approximately one percent when accounting for operational mitigations and resiliency mitigation together. c. Provide the actual projected residual risk percentages broken out by year from 2026 to 2028 for both only resiliency mitigations as well as resiliency and operational mitigations. d. Explain why there is nominal residual risk reduction when incorporating operational mitigations.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	6	Wildfire Mitigation Strategy Development	8.2.1.1
34	OEB	001	OEB_001	24	No	OEB_001_Q24	Regarding "Worst Weather" Scenarios a. On page 67 of the 2026-2028 Base WMP, relating to vegetation, PG&E states that "for WFC, a set of worst weather days during historical fire seasons is used to simulate the simulation of potential wildfire given current fuel conditions." b. What timeframe is used for evaluating historical fire seasons? c. How does PG&E define "worst weather days"? d. How many "worst weather days" are included within the set used for WFC? e. Does PG&E use the same definition of "worst weather days" for weather and wind scenarios? If not, provide those definitions and the number of "worst weather days" within each set. f. On page 60 of the 2026-2028 Base WMP, PG&E states that it "looks to incorporate the potential impacts of more extreme conditions in future models." g. When does PG&E anticipate completing this evaluation? h. Which data model is PG&E planning on not incorporating these more extreme conditions? i. In Figure PG&E-5.3.2-1 (p.90) evaluate the various extreme risks being studied? If not, provide a list of considerations currently being studied by PG&E. j. PG&E's 2025-2028 WMP includes Table 4-4: Example of Extreme Event Scenarios Under Consideration (p.163), which was not included in PG&E's 2026-2028 WMP. Provide a similar table showing the extreme event scenarios currently under consideration. k. On page 68 of the 2026-2028 Base WMP, Table 5-2: Summary of Design Scenarios, PG&E lists the scenarios used for its various models. Provide a detailed description of how the design scenarios Wind Load 3, Wind Load 4 and Vegetation 3 align and/or differ with extreme weather scenarios, as discussed in Section 5.3.2 Extreme-Event/High Uncertainty Scenarios. l. On page 68 of the 2026-2028 Base WMP, PG&E states that "in terms of risk modeling, this strategy entails paying special attention to tail risk—the low frequency, high consequence events" when discussing Grid-Based Analysis. Provide a detailed description of how the evaluation of these low frequency, high consequence events align and/or differ with extreme weather scenarios, as discussed in Section 5.3.2 Extreme-Event/High Uncertainty Scenarios. m. PG&E references fragility curves, shown in Figure PG&E-5.2.2.1.3, capturing Wind Load 1, 2, 3, and 4 conditions for its WTRM Planning Model. n. Provide a detailed description of how PG&E is evaluating the use of fragility curves to perform initial risk analysis for its distribution-level models. o. If PG&E is not currently pursuing efforts to incorporate evaluations of impacts from conditions similar to Wind	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	5	Risk Methodology & Assessment	5.3
35	OEB	001	OEB_001	25	No	OEB_001_Q25	Regarding Suppression and Egress Impacts On page 98 of the 2026-2028 Base WMP, PG&E provides Figure PG&E-5.2.1.1: WFC v4 Components, which shows consequence value adjustment factors for suppression access and egress access. a. Provide a detailed description of how the inclusion of suppression access impacts the overall WFC v4 base risk scores. Provide the percent change to the overall risk scores when suppression access is incorporated, as well as a description of the impact to the ranking of highest risk circuits based on wildfire risk scores. b. Provide a detailed description of how the inclusion of suppression access impacts the overall WFC v4 base risk scores. Provide the percent change to the overall risk scores when egress is incorporated, as well as a description of the impact to the ranking of highest risk circuits based on wildfire risk scores. c. PG&E shows TDI (harmful effects) listed as the impacting value under suppression access. What other values, if any, are included to quantify the impact of suppression access? d. PG&E shows AFN (accession needs) listed as the impacting value under egress. What other values, if any, are included to quantify the impact of egress? e. How has PG&E validated and verified the impact of including suppression access and egress into its WDRM? Provide any results of such validation, including a description	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/customers/docs/docs-rebuild-and-safety/undergrounding-and-overhead-hardening-and-line-removal-distribution-gh-12-and-system-hardening-undergrounding-gh-04.pdf	0	No	5	Risk Methodology & Assessment	5.2.1

44	MGRA	003	MGRA_003	T(u)	Yes	MGRA_003_Q14a	Please provide an excel spreadsheet table that provides for 2021, 2022, 2023, and 2024 a. Number of miles of fully covered conductor circuit segments in the HTD+HFRA b. Number of miles of fully "bare wire" conductor circuit segments in the HTD+HFRA c. Number of wires down for associated with a covered conductor circuit segment in the HTD+HFRA d. Number of wires down associated with a "bare wire" conductor circuit segments in the HTD+HFRA e. Number reportable lightning for fully covered conductor circuit segments in the HTD+HFRA f. For lightning on partially covered circuit segments in the HTD+HFRA, or lightning with uncertain origin, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of origin. g. Number of outages attributable to infrastructure on fully covered conductor circuit segments in the HTD+HFRA h. For outages on partially covered circuit segments in the HTD+HFRA, or outages with uncertain locations, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage.	Joseph Mitchell 4/11/2025 4/23/2025 4/23/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	1	No	8	Grid Design, Operations, and Maintenance	6.4.6.2.10
45	MGRA	003	MGRA_003	2	No	MGRA_003_Q2	Some of the risk drivers in Table 3-1 (pg. 20-21) show wind as a Climatological risk factor. Please provide a technical explanation as to why wind is a factor for the following Risk Sub-Drivers. Also provide data supporting the association: a. Capacitor Bank b. Transformer c. Lightning Arrestor d. Ballast e. Contamination	Joseph Mitchell 4/11/2025 4/16/2025 4/16/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	3	Overview of WMP	3.4
46	MGRA	003	MGRA_003	3	No	MGRA_003_Q3	On p. 24, PG&E states that "These exceptional temperatures, in turn, impact the median humidity of the atmosphere, increasing the occurrence of vapor pressures deficit that is also linked to more severe fires. These conditions also pose a health risk to vegetation, increasing the potential for branch or tree failures impacting air assets and creating potential sources of wildfire ignition." Has PG&E analyzed the relationship between drought conditions and vegetation outage related? If so please provide the results. If it has not done so, is it planning to do so and what would be the timeline? If it is not planning to do so what is the justification?	Joseph Mitchell 4/11/2025 4/22/2025 4/22/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	9	Vegetation Management & Inspections	3.9
47	MGRA	003	MGRA_003	4	No	MGRA_003_Q4	Provide technical description and available documentation for the Suppression Access model used in the WFC v4 Consequence model, along with data and analysis used to support the Suppression Access model.	Joseph Mitchell 4/11/2025 4/22/2025 4/22/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	5	Risk Methodology & Assessment	5.4
48	MGRA	003	MGRA_003	5	No	MGRA_003_Q5	Provide technical description and available documentation for the Public Egress model used in the WFC v4 Consequence model, along with data and analysis used to support the Public Egress model.	Joseph Mitchell 4/11/2025 4/22/2025 4/22/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6	No	MGRA_003_Q6	Regarding the WORM v4 ignition probability model: a. Are the covariates calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? Or are they calculated per year? b. Please provide tabular data supporting each of the "Feature Importance" figures in the Distribution Event Probability Models v4 documentation c. If there is a single value for feature importance at each location, or if these are calculated on a coarse time scale (annually), then please provide GIS data for the following feature importance for the HTD+HFRA areas of the PG&E service area: (a) Average wildfire season daily max wind speed (b) Percent difference from average wildfire season daily max wind speed (c) Average wildfire season relative humidity (d) Average wildfire season vapor pressure deficit (e) Percent gaily summer day	Joseph Mitchell 4/11/2025 5/5/2025 5/5/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	1	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6(u)	Yes	MGRA_003_Q6(u)	Regarding the WORM v4 ignition probability model: a. Are the covariates calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? Or are they calculated per year? b. Please provide tabular data supporting each of the "Feature Importance" figures in the Distribution Event Probability Models v4 documentation c. If there is a single value for feature importance at each location, or if these are calculated on a coarse time scale (annually), then please provide GIS data for the following feature importance for the HTD+HFRA areas of the PG&E service area: (a) Average wildfire season daily max wind speed (b) Percent difference from average wildfire season daily max wind speed (c) Average wildfire season relative humidity (d) Average wildfire season vapor pressure deficit (e) Percent gaily summer day	Joseph Mitchell 4/11/2025 5/6/2025 5/6/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	3	No	5	Risk Methodology & Assessment	5.4
50	MGRA	003	MGRA_003	7	No	MGRA_003_Q7	Regarding Figure PG&E-6.1.3.3.1 (2026 Year Baseline) representing system-wide wildfire risk, do the values shown in the Figure PG&E-6.1.3.3.1 reflect the scaling function? If the answer is "yes", please provide a figure showing the same values without the scaling function (as neutral risk attribute).	Joseph Mitchell 4/11/2025 4/22/2025 4/22/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
51	MGRA	003	MGRA_003	8	No	MGRA_003_Q8	Figure 6-1.1.149 shows PG&E's fractional risk reduction on a yearly basis from 2023 to 2025. Using available data and methodology, please provide an equivalent risk reduction curve showing the fractional change of PG&E's annual system territory wildfire risk between 2017 and 2024.	Joseph Mitchell 4/11/2025 4/22/2025 4/22/2025 https://www.pge.com/assets/pge/docs/outages_and_safety/outage-report-reports-and-safety/2024-2025-MGRA_003.xls	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2

59	OEB	002	OEB_002	5	No	OEB_002_05	Regarding detailed aerial and ground inspections On page 228 of a WMP, PG&E sets a target of 218,000 distribution detailed inspection per year for 2026-2028. The target states the inspections can be either ground or aerial, separate targets are not provided for detailed aerial or detailed ground inspections. a. Provide the following information related to scheduling detailed aerial and ground inspections. 1. Does PG&E have controls in place to avoid or assess being only subject to one series of detailed inspection for extended periods of time? (i.e., an asset or an area of extreme consequences and wildfire risk only receiving detailed aerial inspections for 10 years). Provide PG&E's reasoning for its chosen approach. Some hazardous conditions may be less likely identified via ground inspections while others may be less likely identified via aerial inspections. 1. Provide a list of conditions that PG&E has recognized as being more likely identified via aerial inspections and less likely identified via ground inspections. Provide a brief explanation for each condition. A. If PG&E has not recognized any such conditions, briefly discuss its reasoning. 1. Provide a list of conditions that PG&E has recognized as being more likely identified via ground inspections and less likely identified via aerial inspections. Provide a brief explanation for each condition. A. If PG&E has not recognized any such conditions, briefly discuss its reasoning.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_05.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.3.8
60	OEB	002	OEB_002_06	6	No	OEB_002_06	Regarding transmission detailed aerial and ground inspections On page 238 of a WMP, PG&E sets a target of 22,000 transmission detailed inspection per year. The target states the inspections can be either ground or aerial, separate targets are not provided for detailed aerial or detailed ground inspections. a. Provide supporting documentation for transmission detailed inspections, including any job aids, procedural documents, or inspector checklists. Specify any documents that are unique to aerial or ground inspections. 1. Provide the following information related to scheduling detailed aerial and ground inspections. Does PG&E have controls in place to avoid or assess being only subject to one series of detailed inspection for extended periods of time? (i.e., an asset only receiving detailed aerial inspections for 10 years). Provide PG&E's reasoning for its chosen approach. Some hazardous conditions may be less likely identified via ground inspections while others may be less likely identified via aerial inspections. 1. Provide a list of conditions that PG&E has recognized as being more likely identified via aerial inspections and less likely identified via ground inspections. Provide a brief explanation for each condition. A. If PG&E has not recognized any such conditions, briefly discuss its reasoning.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_06.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.3.1
61	OEB	002	OEB_002_07	7	No	OEB_002_07	Regarding transmission switch function testing PG&E does not provide a target for its transmission switch function testing inspection program in its 2026-2028 Base WMP. However, of the ten inspection initiatives with a complete target, transmission switch function testing demonstrates the highest first rate of level 1 conditions and the fourth highest first rate of level 2 conditions. 1. Provide the following data for transmission switch function testing: The total number of transmission switch function tests performed in the HFTD for 2022, 2023, and 2024. 1. The number of level 1 conditions identified in 2022, 2023, and 2024. 2. The number of level 2 conditions identified in 2022, 2023, and 2024. 3. The number of level 1 conditions with associated wildfire risk identified in 2022, 2023, and 2024. 4. The number of level 2 conditions with associated wildfire risk identified in 2022, 2023, and 2024.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_07.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.3.5
62	OEB	002	OEB_002_08	8	No	OEB_002_08	Regarding vegetation inspections and pole clearing targets On WMP page 316, PG&E provides quantitative targets for its vegetation inspection and vegetation management programs. For the column "HFTD Covered in 2026" it appears PG&E provided the percentage of the 2026 target that is performed within the HFTD. The WMP Guidelines (page 105) defines this column as: "The percentage of total overhead circuit miles in the HFTD covered by the Year 1 target (e.g., 100 circuit miles of poles targeted in Year 1) divided by 300 overhead circuit miles in the HFTD (30 percent covered)". a. Provide the equation PG&E used to calculate the "HFTD Covered in 2026" column. 1. If PG&E used a different equation other than the one defined in the Guidelines, provide "HFTD in 2026" figures for each of PG&E's targets in Table 9-2 using the calculation defined in the WMP Guidelines. For targets that do not use overhead circuit miles as a unit, the denominator should be the total number of the unit present in the HFTD.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_08.pdf	0	No	9	Vegetation Management & Inspections	8.4
63	OEB	002	OEB_002_09	9	No	OEB_002_09	Regarding Distribution Routine Patrol quantitative targets (VM-16) On WMP page 326, PG&E sets cumulative quarterly targets for Q4 in 2026, 2027, and 2028 of 75,200, 77,800, and 77,500 circuit miles respectively. These are annual decreases of 400 miles from 2026 to 2027, and 300 miles from 2027 to 2028. a. Do the incrementally decreasing targets reflect miles of distribution lines projected to be underground? 1. If yes, explain how PG&E calculated each annual decrease in Distribution Routine Patrol target circuit miles. 1. If not provide the justification for each annual decrease in Distribution Routine Patrol target circuit miles.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_09.pdf	0	No	9	Vegetation Management & Inspections	9.1.2
64	OEB	002	OEB_002_10	10	No	OEB_002_10	Regarding PG&E's Pole Clearing Program target (VM-02) On page 316 of a 2026-2028 Base WMP, PG&E sets cumulative quarterly targets for Q4 in 2026, 2027, and 2028 of 75,000 distribution poles. a. Clarify whether PG&E's target is to clear vegetation around 70,000 distribution poles or inspect 70,000 distribution poles and clear vegetation at those poles only as needed. 1. Of the 75,000 poles targeted for pole clearing specify how many of those poles: 1. Are required to be cleared under Public Resource Code (PRC) 4202. 2. Are not required to be cleared under PRC 4202.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_10.pdf	0	No	9	Vegetation Management & Inspections	8.4
65	OEB	002	OEB_002_11	11	No	OEB_002_11	Regarding PG&E-208-21 Identification of High-Risk Species for Focused Tree Inspections On page 391 of a 2026-2028 WMP, PG&E defines "criteria for determining when [wild] species warrant increased scrutiny during Focused Tree Inspections and other inspections." PG&E states that it provides Vegetation Management Inspectors (VMIs) historical outage data and developed a "threshold (SWI) allows the user to drill down to the circuit or CPF level to view historical outage and ignition causes by species, diameter, and failure." a. Is PG&E able to calculate outage and ignition probabilities by tree species at the CPF level?	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_11.pdf	0	No	ACI PG&E-208-15	ACI PG&E-208-15	ACI PG&E-208-15
67	OEB	002	OEB_002_12	12	No	OEB_002_12	Regarding Vegetation Management (VM-13) On page 364 of a 2026-2028 WMP, PG&E states that "TMM (transmission integrated vegetation management) LCAPI data... assesses vegetation conditions by electric transmission lines (ETL)." On page 366, PG&E targets 17,500 miles annually for its Routine Transmission Patrol (VM-13) and 5,600 circuit miles annually for its Transmission Hazard Patrol (VM-14). a. Provide the equation PG&E used to calculate the "HFTD Covered in 2026" column. 1. If PG&E used a different equation other than the one defined in the Guidelines, provide "HFTD in 2026" figures for each of PG&E's targets in Table 9-2 using the calculation defined in the WMP Guidelines. For targets that do not use overhead circuit miles as a unit, the denominator should be the total number of the unit present in the HFTD.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_12.pdf	0	No	9	Vegetation Management & Inspections	9.7
68	OEB	002	OEB_002_13	13	No	OEB_002_13	Regarding risk model documentation a. Page 8 of PG&E's Distribution Event Probability Models Version 4 (DEPM v4) Documentation includes "RADA Algorithms and Methodologies" under its list of documents as part of the documentation suite for the Wildfire Distribution Risk Model (WDRM) v4. Provide a brief description of the RADA algorithms and methodologies. 1. Provide a brief description of the RADA algorithms and methodologies. 2. Provide a brief description of the RADA algorithms and methodologies. 3. Provide a brief description of the RADA algorithms and methodologies. 4. Provide a brief description of the RADA algorithms and methodologies. 5. Provide a brief description of the RADA algorithms and methodologies. 6. Provide a brief description of the RADA algorithms and methodologies. 7. Provide a brief description of the RADA algorithms and methodologies. 8. Provide a brief description of the RADA algorithms and methodologies. 9. 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Provide a brief description of the RADA algorithms and methodologies.	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/pge/docs/outreach-and-stakeholder-engagement-and-support/2026-2028-OEB-002_13.pdf	1	No	Appendix B	Supporting Documentation for Risk Methodology	Appendix B

Page 11

99	SPD	001	SPD_001	26	No	SPD_001_Q26	The 2026-2028 WMP references the WBCA Tool, but SPD has reviewed other filings like PG&E's 2024 RAMP registration (24-03-0001) where the tool is not referenced. A. The WBCA was not referenced in PG&E's 2024 RAMP Application. During the preparation of PG&E's 2024 RAMP, were any aspects of the WBCA used to determine mitigation effectiveness values and/or mitigation selection and, if so, explain in detail how, if not, explain why not. B. List the effectiveness between the very mitigation effectiveness values were calculated when preparing PG&E's 2024 RAMP Application and when preparing the 2026-2028 WMP. C. Provide an explanation for the way mitigation effectiveness was calculated when preparing PG&E's 2024 RAMP Application and when preparing the 2026-2028 WMP. D. In WMP-Discovery/2026-2028_DR_TURN_002-Q006, PG&E stated the WBCA tool is still in development in its response to TURN's questions. But pages 811 through 816 of the 2026-2028 WMP appear to present the tool as complete. What portions of the WBCA Tool are still under development? E. SPD understands that PG&E has two risk models for its wildfire risk. (1) the CDRM and (2) the WORM/WTM tree close to WBCA Tool incorporate information from both of these risk models?	Edde Schmidt	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn002-q006 https://www.sage.com/csrts/turn/turn002-q006 https://www.sage.com/csrts/turn/turn002-q006	0	No	5	Risk Methodology & Assessment	5.4
100	SPD	001	SPD_001	27	No	SPD_001_Q27	Please see WMP-Discovery/2026-2028_DR_TURN_002-Q006Sp01.pdf, which is also available on our website at Community Wildfire Safety Program.	Edde Schmidt	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn002-q006sp01 https://www.sage.com/csrts/turn/turn002-q006sp01 https://www.sage.com/csrts/turn/turn002-q006sp01	0	No	N/A	N/A	N/A
101	SPD	001	SPD_001	28	No	SPD_001_Q28	Building on PG&E's response in WMP-Discovery/2026-2028_DR_TURN_002-Q006Sp01, also, 81 out the Table provided below. The next column "HFTD Tar 2 with Space Outside HFTD" and "HFTD Tar 3 with Space Outside HFTD" refers to risks that meet the requirements based on up to 16 of Energy Safety's 10-Year Electrical Underwriting Plan Guidelines. Total Miles CH Hardening Miles Year X CH replaced by UG Miles Year X Total HFTD HFTD Tar 2 HFTD Tar 3 HFTD Tar 3 HFTD Tar 3 with Space Outside HFTD Additional HFTD Answer CDR PG&E does not have the requested information and does not maintain the data required to complete such information. PG&E would need to expend significant time, effort, and cost to perform the evaluations necessary to create the information. Please let us know if you would like to have a call to discuss the further.	Edde Schmidt	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn002-q006sp01 https://www.sage.com/csrts/turn/turn002-q006sp01 https://www.sage.com/csrts/turn/turn002-q006sp01	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
102	OEB	003	OEB_003	1	No	OEB_003_Q1	Regarding Tree Removal Inventory (TRI) PG&E does not list TRI as a vegetation management program in its 2026-2028 Base WMP. On page 363, PG&E's WMP states "PG&E is in the process of evaluating which components of the (TRI) Tree Removal Inventory (TRI) scope will be incorporated into the Distribution Routine Patrol Program." A. How many trees are currently listed for work under TRI? B. How many trees does PG&E expect to remain in the TRI list on January 1, 2026? C. How many trees does PG&E expect to remove from TRI during the 2026-2028 cycle? D. When does PG&E expect to mitigate all the trees listed for work under TRI?	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn003-q001 https://www.sage.com/csrts/turn/turn003-q001 https://www.sage.com/csrts/turn/turn003-q001	0	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-250-08
103	OEB	003	OEB_003	2	No	OEB_003_Q2	Regarding Constrained Vegetation Management Work Orders In response to date request OEB-R-WMP-2026-PGE-001, Questions 6, PG&E lists 7,084 Priority 2 constrained work orders. A. In the table below, categorize all 7,084 constrained work orders by age (days since inspection) and HFTD tier:	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn003-q002 https://www.sage.com/csrts/turn/turn003-q002 https://www.sage.com/csrts/turn/turn003-q002	0	No	9	Vegetation Management & Inspections	9.1.2
104	OEB	003	OEB_003	3	No	OEB_003_Q3	Regarding System Hardening Decision-Making Regarding Figure PG&E-2.1.2, PG&E's System Hardening Project Scoping Decision Tree and Process (PG&E's 2026-2028 Base WMP, pp. 183-185). A. Define "Net Benefit" as used for 10-16 CH-DBE. B. How does PG&E calculate UG NB and CHNB for the purpose of determining these criteria? C. How does PG&E calculate benefit (NB) and CBR for the purpose of determining these criteria? D. Does PG&E calculate benefit (NB) and CBR based on overall effectiveness for mitigations (as seen in Table PG&E-2.1.1, PG&E's 2026-2028 Base WMP, p. 185), or based on location-specific effectiveness accounting for local risk drivers? Provide a brief explanation of this calculation in the response. E. Provide the spatial data (via KML or KMZ) for the tree strike potential throughout PG&E service territory, showing a heat map across circuit segments for where risk (0-5) is high (0-5) strike potential. F. How are areas of aggressive concern identified by the Public Safety Specialist (PSS) team (i.e. annually produce a list of areas of concern, review specific projects through the process to evaluate concerns once complete)? G. Provide a list of areas that have been identified by the PSS team for aggressive concerns. This should include the circuit protection zone. H. What criteria and threshold does PG&E use when determining whether a circuit protection zone (CPZ) is prioritized by PSS? I. Provide a list of projects scheduled for 2026 to 2028 that have been triggered to be a hybrid solution (from a tree free protection, aggressive concern, or PFR) (if applicable, as specified by one of the three criteria listed in the decision tree. Provide the information on Excel following the table below for each project. J. Provide a list of projects scheduled for 2026 to 2028 that are undergirding projects, where the UG CBR is greater than the CH-DBE CBR, but due to the UG CBR being within 50% of the CH-DBE CBR, the project is considered undergirding. This must also include hybrid projects that were triggered from the criteria discussed in Q5(b). Provide the information on Excel following the table below for each project.	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.sage.com/csrts/turn/turn003-q003 https://www.sage.com/csrts/turn/turn003-q003 https://www.sage.com/csrts/turn/turn003-q003	6	No	8	Grid Design, Operations, and Maintenance	8.2.1
105	OEB	003	OEB_003	4	No	OEB_003_Q4	Regarding Effectiveness Analysis Provide a copy of Table 4-4: Summary of Risk Reduction for Top Risk Circuits (PG&E's 2026-2028 Base WMP, p. 163) that has the overall utility risk scores for all top risk circuits broken out by year without including the expected risk reduction from EPSS.	Nathan Poon	4/15/2025	4/23/2025	4/23/2025	https://www.sage.com/csrts/turn/turn003-q004 https://www.sage.com/csrts/turn/turn003-q004 https://www.sage.com/csrts/turn/turn003-q004	0	No	6	Wildfire Mitigation Strategy Development	6.1.3-1
106	OEB	003	OEB_003	5	No	OEB_003_Q5	Regarding Risk Reduction Provide a copy of Table 4-4: Summary of Risk Reduction for Top Risk Circuits (PG&E's 2026-2028 Base WMP, p. 163) that has the overall utility risk scores for all top risk circuits broken out by year without including the expected risk reduction from EPSS.	Nathan Poon	4/15/2025	4/23/2025	4/23/2025	https://www.sage.com/csrts/turn/turn003-q005 https://www.sage.com/csrts/turn/turn003-q005 https://www.sage.com/csrts/turn/turn003-q005	1	No	6	Wildfire Mitigation Strategy Development	6.2.1

116	TURN	003	TURN_003	5	No	TURN_003_05	Section 6.1.3.1, page 129, states "Covered conductor can generally be installed more quickly and costs less than undergrounding, but it does not protect against true strike risk or fully address the reliability risk. Given increasing instances of extreme weather and volatility, the choice on vegetation around our assets is only expected to get worse. Therefore, undergrounding, where feasible, is the best alternative where true strike risk is high." In Excel, please provide the time (days) from project initiation to project completion for all covered conductor and undergrounding projects, separately from 2018. Please include all supporting calculations. a. Please explain and quantify whether the fact that covered conductor can be installed more quickly than undergrounding has been incorporated into PG&E's risk modeling and cost-benefit ratios. If yes, please explain and provide an illustrative calculation. If no, please explain why not.	Reina Yanagita	4/17/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
117	TURN	003	TURN_003	6	No	TURN_003_06	Please provide recorded and forecasted red flag warning circuit mile days from 2020-2024 on an annual basis in PG&E's HFTD. Please define "forecast" as the assumption for PG&E's risk modeling, if available.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	1	No	5	Risk Methodology & Assessment	5.3
118	TURN	003	TURN_003	7	No	TURN_003_07	In one Excel workbook, please provide the annual number of ignitions started by PG&E equipment from 2018-2024 in PG&E's HFTD for including which are in the HFTD with supporting data and calculations. Please also include: a. The date of each ignition. b. Owner of the ignition (cause). c. Structures destroyed. d. Facilities and/or damages. e. Whether there was not flag warning at the time of the ignition. f. Any other information readily available and used by PG&E in its risk modeling.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	1	No	5	Risk Methodology & Assessment	5.2.2.1
119	TURN	003	TURN_003	8	No	TURN_003_08	Regarding the mitigation effectiveness of covered conductor: a. Please provide all studies known to PG&E that evaluate the mitigation effectiveness of covered conductor using data rather than modeling. b. From 2020-2024 on an annual basis, please provide the number of fully per mile on lines with covered conductor versus lines without covered conductor in PG&E's HFTD. c. From 2020-2024 on an annual basis, please provide the number of ignitions per mile on lines with covered conductor versus lines without covered conductor in PG&E's HFTD.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
120	TURN	003	TURN_003	9	No	TURN_003_09	For each project proposed from 2026-2028 for LG and CC, please provide the following in Excel with all supporting data, calculations, and assumptions: a. Cost-benefit ratio of LG and CC for each project, including which mitigation was chosen LG or CC. b. This should include unit costs assumed for each mitigation. c. This should include number of overhead miles of each project. d. This should include total risk and risk reduction from the project.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
121	TURN	003	TURN_003	10	No	TURN_003_10	Section 8.2.1, Page 185 states "In any given location, overhead hardening does not reduce the impact from PSPS events, but it is expected to reduce PSPS-caused outages." Please explain why PG&E has not evaluated higher wind thresholds for overhead hardened circuits, which reduce the probability of PSPS, as Southern California Edison has done. Please support the response with all analyses and data regarding projected differences between SCE's and PG&E's service territory on overhead hardening programs.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
122	O&B	004	O&B_004	1	No	O&B_004_01	Regarding Third-Party Model Review a. Page 12 of the E3 review states that "The main driver for consequence is the FPI score which further reduces the impacts of the In-depth sensitivity scoring from the 'Technique analysis.'" On page 18 of the Wildfire Consequence Model V4 document, two criteria are mentioned for the predictive destructive criteria, one for FPI-R and one for the 'Technique analysis'. b. Out of the simulated weather history, how many days from 2012 through 2022 have met each criterion in the largest risk circuit? c. Provide a detailed description of how FPI-R compared to predictive destructive criteria influence the consequence score.	Nathan Poon	4/16/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf https://www.pge.com/assets/pge/docs/outages_and_safety/outage_prevention/outage_prevention.pdf	1	No	5	Risk Methodology & Assessment	5.4

123	OEBIS	004	OEBIS_004	2	No	OEBIS_004_02	Regarding the Wildfire Transmission Risk Model On page 32 of PG&E's Wildfire Transmission Risk Model Documentation v4, PG&E references the "T-Line Asset Data Quality Improvement - Critical Components, Guide to Conservative Assumptions," dated January 14, 2020. Provide a copy of this document.	Please see "WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001.pdf" for the requested information.	Nathan Poon	4/18/2025	4/23/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	1	No	5	Risk Methodology & Assessment	5.4
124	OEBIS	004	OEBIS_004	3	No	OEBIS_004_03	Regarding the wildfire consequence model On pages 19-22 of PG&E's Wildfire Consequence Model V4 document, PG&E provides an example of the regression model applied to the Data Fire. 1. Provide an expanded version of the example to show the calculation of the number of structures in Table 11 (p. 22). This includes providing the data on Existing Structures, fuel moisture (FM), and wind speed (WS), as noted on page 25, which are not reported in the example. 2. How did PG&E select the 300 m height for wind speed (p. 20)? What impact does that have on the statistical performance of the model? 3. On page 14 of the Wildfire Consequence Model V4 document, Table 4 lists the dry wind conditions criteria. Are these sampled at a weather station height, at 300 m above surface (like the consequence model wind speeds), or some other reference height? 4. On page 28 of PG&E's Wildfire Consequence Model V4 document, PG&E presents the equation for calculating the fractional fatalities based on AFN and WS fatalities. What are the units of the AFN value? 5. How does this correspond to the AFN values shown in Figure 13 and Table 13 (p. 26)? 6. On page 28 of the Wildfire Consequence Model V4 document, Table 20 provides example consequence training data. Provide this table as an Excel spreadsheet with one row per historical fire used in consequence training. Provide the following columns in addition to the columns shown in Table 20: (1) TDR level (2) AFN decay level (3) Wind speed in mph at 300 m (4) Line fuel moisture (5) Daily average wind speed for Dry Wind Conditions (if this is different from wind speed in mph at 300 m) (6) 10k dry fuel moisture (7) Relative humidity (8) FPM-45 (9) Flame Length (10) Rate of Spread (11) Whether the fire is within the HFRA (12) Whether the fire was used for training or validation 4. In PG&E's response to Energy Safety's Data Request 1 Question 25, PG&E states that "the overall WF Consequence model v4 with regress and regression incorporated was validated against historical fire outcomes." 1. Provide a list of all fire used to validate WFC v4. Regarding Table 11, "Number of Structures Within Top 100 Critical Segments" In response to Energy Safety's Data Request 2, Question 17, PG&E provided an updated version of Table 6-4 including the associated mileage for various facilities planned and percentage that has already been hardened. Compared to the lengths provided in Table 6-1 (PG&E's 2026-2028 Base WMP, p. 175) and estimates in PG&E's responses to Energy Safety's Data Request 1, Question 17 (dated "WMP" in the table), in the summation of the mileages provided in Attachment 1 (dated "DR" in the table), Energy Safety found the following: 2027 2028 Heslering Type WMP DR A A A A A Undergrounding 170 16.94 353 307 303.68 103 480 Mile In the WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001.xlsx, there is a field titled "DamageType". The field should be used to indicate events in the Feature Class to the PG&E Event Conductor Damage and PG&E Event Support Damage Data Tables, which are provided in WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001.xlsx and WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001.xlsx, respectively. Please see the DamageType field in the table for the details about the damage type scheme as defined by Energy Safety; rather, it is a linking field that exists in the Feature Class and must be used to establish the relationship with the associated data tables. Regarding the Cause field, PG&E considers this information to be confidential and applies a consistent policy of redaction, regardless of the feature class. Data submitted in quarterly reports to the Office of Energy Infrastructure Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including attorney-client privilege (e.g., Fed. Code § 564, Code Civ. Proc. § 2015.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, PG&E exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113; Gov. Code § 552(a)(4); 40 C.F.R. § 2.20). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 PG&E is submitting data provided to MGRA from last year's MGRA request where MGRA requested PG&E Event Damages. As noted last year, there were two PG&E events during the year and both took place during Q3 2023. Please see WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 Additionally, the interconnected aspect of feature classes and data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, PG&E may designate additional data points confidential at a later point in time should more confidentiality considerations become known. PG&E would be happy to provide the requested confidential information under the terms of a non-disclosure agreement to protect the confidentiality of the information.	Nathan Poon	4/18/2025	4/29/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	1	No	5	Risk Methodology & Assessment	5.4	
125	OEBIS	004	OEBIS_004	4	No	OEBIS_004_04	Regarding Table 11, "Number of Structures Within Top 100 Critical Segments" In response to Energy Safety's Data Request 2, Question 17, PG&E provided an updated version of Table 6-4 including the associated mileage for various facilities planned and percentage that has already been hardened. Compared to the lengths provided in Table 6-1 (PG&E's 2026-2028 Base WMP, p. 175) and estimates in PG&E's responses to Energy Safety's Data Request 1, Question 17 (dated "WMP" in the table), in the summation of the mileages provided in Attachment 1 (dated "DR" in the table), Energy Safety found the following: 2027 2028 Heslering Type WMP DR A A A A A Undergrounding 170 16.94 353 307 303.68 103 480 Mile In the WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001.xlsx, there is a field titled "DamageType". 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As noted last year, there were two PG&E events during the year and both took place during Q3 2023. Please see WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. 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Nathan Poon	4/18/2025	4/29/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	3	No	6	Wildfire Mitigation Strategy Development	6.2.1.3	
126	MGRA	004	MGRA_004	1	No	MGRA_004_01	PG&E event damage event reports obtained from post-event patrols, including cause and estimated time of damage for all quarters of 2024. Cause was not included in the provided data. A. Also please extend the request to cover four quarters or 2025 as well.	PG&E considers the BasicCause field information to be confidential. Data submitted in quarterly reports to the Office of Energy Infrastructure and Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including attorney-client privilege (e.g., Fed. Code § 564, Code Civ. Proc. § 2015.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, PG&E exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113; Gov. Code § 552(a)(4); 40 C.F.R. § 2.20). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 PG&E is submitting data provided to MGRA from last year's MGRA request where MGRA requested PG&E Event Damages. As noted last year, there were two PG&E events during the year and both took place during Q3 2023. Please see WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 Additionally, the interconnected aspect of feature classes and data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, PG&E may designate additional data points confidential at a later point in time should more confidentiality considerations become known. PG&E would be happy to provide the requested confidential information under the terms of a non-disclosure agreement to protect the confidentiality of the information.	Joseph Mitchell	4/21/2025	4/29/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	1	No	NA	GIS	NA
127	MGRA	004	MGRA_004	2	No	MGRA_004_02	Unplanned outage data, including cause. Cause was not provided in the initial response.	PG&E considers the BasicCause field information to be confidential. Data submitted in quarterly reports to the Office of Energy Infrastructure and Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including attorney-client privilege (e.g., Fed. Code § 564, Code Civ. Proc. § 2015.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, PG&E exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113; Gov. Code § 552(a)(4); 40 C.F.R. § 2.20). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 PG&E is submitting data provided to MGRA from last year's MGRA request where MGRA requested PG&E Event Damages. As noted last year, there were two PG&E events during the year and both took place during Q3 2023. Please see WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 Additionally, the interconnected aspect of feature classes and data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, PG&E may designate additional data points confidential at a later point in time should more confidentiality considerations become known. PG&E would be happy to provide the requested confidential information under the terms of a non-disclosure agreement to protect the confidentiality of the information.	Joseph Mitchell	4/21/2025	4/29/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	0	No	NA	GIS	NA
128	MGRA	004	MGRA_004	3	No	MGRA_004_03	Wire down data for all four quarters of 2023 and 2024. This was missing cause and event time.	PG&E considers the BasicCause field information to be confidential. Data submitted in quarterly reports to the Office of Energy Infrastructure and Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including attorney-client privilege (e.g., Fed. Code § 564, Code Civ. Proc. § 2015.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, PG&E exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113; Gov. Code § 552(a)(4); 40 C.F.R. § 2.20). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 PG&E is submitting data provided to MGRA from last year's MGRA request where MGRA requested PG&E Event Damages. As noted last year, there were two PG&E events during the year and both took place during Q3 2023. Please see WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (approximately between 10-15 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, reclassifying feature classes, changing field names, updating definitions, and removing fields. Such revisions make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential. To create a non-confidential file for MGRA, PG&E attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS; however, confidential data could still not have been provided inadvertently. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis. WMP-Discovery2026-2028_DR_OEBIS_004-Q000A001 Page 2 Additionally, the interconnected aspect of feature classes and data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, PG&E may designate additional data points confidential at a later point in time should more confidentiality considerations become known. PG&E would be happy to provide the requested confidential information under the terms of a non-disclosure agreement to protect the confidentiality of the information.	Joseph Mitchell	4/21/2025	4/29/2025	4/29/2025	https://www.pge.com/csu/er/geo/doc/outages_and_safety/outages_and_safety/wildfire_and_safety/wildfire-transmission-risk-model-documentation-v4-2020-01-14.pdf	0	No	NA	GIS	NA

[illegible]

169	SPD	004	SPD_004	5	No	SPD_004_05	Fill in the data requested in the attached workbook titled "Decision Tree Results by Circuit Segment.xlsx". This workbook is modeled upon the PG&E 2023 WMP SPD Section A02_A0601.xlsx workbook that was submitted with the PG&E 2023-2025 Base WMP and the PG&E response to a California Data Request that related the workbook titled WMP-Discovery2023-2025_DR_California_041-Q005A01.xlsx. A. Fill in the Fast Description in the "Instructions" spreadsheet to complete the corresponding cells in the "Primary", "SS&S" and "DistTol" spreadsheets. B. Responses in the "Primary" spreadsheet must be limited to the primary lines found on the corresponding "Circuit Segment Name" listed in Column A. C. Responses in the "SS&S" spreadsheet must include both the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A. D. Responses in the "DistTol" spreadsheet must include both the primary, secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A. E. If any of the data requested in the attached workbook were not input by the Administrative Law Judge Ruling described in Questions 1 and 3, provide a second version of this dataset using a risk-rated, lower loading function and apply the disaggregated approach to reliability cost calculation recommended in the SPD Evaluation Report.	Header row worksheet: "WMP-Discovery2023-2025_DR_SPD_004-Q005A01.xlsx" In the delivery, PG&E is providing the data fields in the table below, subject to the following clarification. As discussed at PG&E's meeting with the SPD on May 8, 2025, PG&E is also providing its assessment of the fields that it has determined are not possible to provide as requested and what it proposes to provide in lieu of those fields. PG&E also provides a brief explanation of each field that PG&E has determined is not WMP-Discovery 2023-2025_DR_SPD_004-Q005 Page 2 possible to provide. Please note that, as PG&E's subject matter experts continue to engage with this data request, further clarifications and changes may emerge. Please note that PG&E is not determining the dates by which those fields not provided with this delivery or identified below can be produced. PG&E is working diligently to respond to this request and will endeavor to provide as many fields as reasonably possible on May 30, 2025. PG&E will provide updates to SPD as timelines are determined, and approximate SPD updates. PG&E will endeavor to respond to this data request to the fullest extent possible. At this time, PG&E expects to provide the following fields on May 30, 2025: - Miles of CH - Miles of L2 - Miles of Line Removal - Total Miles of System Hardening - Total Expenditure of CH Completed in Year - Total Expenditure of L2 Completed in Year - Total Expenditure of Line Removal Completed in Year - Total Expenditure of System Hardening Completed in Year PG&E is not determining the dates by which those fields not provided with this delivery or identified here can be produced. Fields PG&E has Determined Are Impossible to Provide as Requested In addition to the limitations described below, please note that the following mitigation programs are not utilized by circuit mile and cannot be provided as such. Unless otherwise noted, PG&E will provide the total number of units mitigated per circuit segment. - Equipment Fuse Replacement - Surge Arrester Replacement	Edde Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/outage-pge-response-and-safety/outage-pge-response-and-safety/2023-2025-SPD_004.xlsx	1	No	5	Risk Methodology & Assessment	5.5.2
170	SPD	004	SPD_004	6	No	SPD_004_06	Per PG&E's response to Question 26 in SPD-PGE-WMP2023-001, where was Figure SRN-PG&E-23-05-06C from PG&E's 2023-2025 Base WMP published?	In my response to Question 26 in SPD-PGE-WMP2023-001, I was inadvertently referenced SRN-PG&E-23-05-06C. Figure SRN-PG&E-23-06 from PG&E's 2023-2025 Base WMP is PG&E's System Hardening Decision Tree. PG&E showed the decision tree in its entirety and then separated the tree into two separate figures (Figure SRN-PG&E-23-06 and Figure SRN-PG&E-23-06B) three figures in total. However, Figure SRN-PG&E-23-06 is difficult to read. When we responded to SPD-PGE-WMP2023-001, Question 26 we mistakenly referred to the three decision tree figures as SRN-PG&E-23-05-06A, SRN-PG&E-23-05-06B and SRN-PG&E-23-05-06C. The decision tree was published in the 2023-2025 Base WMP.	Edde Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/outage-pge-response-and-safety/outage-pge-response-and-safety/2023-2025-SPD_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4
171	SPD	004	SPD_004	7	No	SPD_004_07	Provide copies of Figures SRN-PG&E-23-05-06A, SRN-PG&E-23-05-06B, SRN-PG&E-23-05-06C from PG&E's 2023-2025 Base WMP in their native format.	See attached "WMP-Discovery2023-2025_DR_SPD_004-Q005A01.pdf". The titles and captions associated with the figures in the attached "WMP-Discovery2023-2025_DR_SPD_004-Q005A01.pdf" are as noted in WMP-Discovery2023-2025_DR_SPD_004-Q005A01.pdf. The figures were inadvertently referenced.	Edde Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/outage-pge-response-and-safety/outage-pge-response-and-safety/2023-2025-SPD_004.xlsx	1	No	5	Risk Methodology & Assessment	5.4
172	SPD	004	SPD_004	8(a)	Yes	SPD_004_08(a)	Provide copies of Figures PG&E-8.1.1, PG&E-8.2.1, PG&E-8.3.1, PG&E-8.4.1, PG&E-8.5.1, PG&E-8.6.1, PG&E-8.7.1, PG&E-8.8.1, PG&E-8.9.1, PG&E-8.10.1, PG&E-8.11.1, PG&E-8.12.1, PG&E-8.13.1, PG&E-8.14.1, PG&E-8.15.1, PG&E-8.16.1, PG&E-8.17.1, PG&E-8.18.1, PG&E-8.19.1, PG&E-8.20.1, PG&E-8.21.1, PG&E-8.22.1, PG&E-8.23.1, PG&E-8.24.1, PG&E-8.25.1, PG&E-8.26.1, PG&E-8.27.1, PG&E-8.28.1, PG&E-8.29.1, PG&E-8.30.1, PG&E-8.31.1, PG&E-8.32.1, PG&E-8.33.1, PG&E-8.34.1, PG&E-8.35.1, PG&E-8.36.1, PG&E-8.37.1, PG&E-8.38.1, PG&E-8.39.1, PG&E-8.40.1, PG&E-8.41.1, PG&E-8.42.1, PG&E-8.43.1, PG&E-8.44.1, PG&E-8.45.1, PG&E-8.46.1, PG&E-8.47.1, PG&E-8.48.1, PG&E-8.49.1, PG&E-8.50.1, PG&E-8.51.1, PG&E-8.52.1, PG&E-8.53.1, PG&E-8.54.1, PG&E-8.55.1, PG&E-8.56.1, PG&E-8.57.1, PG&E-8.58.1, PG&E-8.59.1, PG&E-8.60.1, PG&E-8.61.1, PG&E-8.62.1, PG&E-8.63.1, PG&E-8.64.1, PG&E-8.65.1, PG&E-8.66.1, PG&E-8.67.1, PG&E-8.68.1, PG&E-8.69.1, PG&E-8.70.1, PG&E-8.71.1, PG&E-8.72.1, PG&E-8.73.1, PG&E-8.74.1, PG&E-8.75.1, PG&E-8.76.1, PG&E-8.77.1, PG&E-8.78.1, PG&E-8.79.1, PG&E-8.80.1, PG&E-8.81.1, PG&E-8.82.1, PG&E-8.83.1, PG&E-8.84.1, PG&E-8.85.1, PG&E-8.86.1, PG&E-8.87.1, PG&E-8.88.1, PG&E-8.89.1, PG&E-8.90.1, PG&E-8.91.1, PG&E-8.92.1, PG&E-8.93.1, PG&E-8.94.1, PG&E-8.95.1, PG&E-8.96.1, PG&E-8.97.1, PG&E-8.98.1, PG&E-8.99.1, PG&E-8.100.1, PG&E-8.101.1, PG&E-8.102.1, PG&E-8.103.1, PG&E-8.104.1, PG&E-8.105.1, PG&E-8.106.1, PG&E-8.107.1, PG&E-8.108.1, PG&E-8.109.1, PG&E-8.110.1, PG&E-8.111.1, PG&E-8.112.1, PG&E-8.113.1, PG&E-8.114.1, PG&E-8.115.1, PG&E-8.116.1, PG&E-8.117.1, PG&E-8.118.1, PG&E-8.119.1, PG&E-8.120.1, PG&E-8.121.1, PG&E-8.122.1, PG&E-8.123.1, PG&E-8.124.1, PG&E-8.125.1, PG&E-8.126.1, PG&E-8.127.1, PG&E-8.128.1, PG&E-8.129.1, PG&E-8.130.1, PG&E-8.131.1, PG&E-8.132.1, PG&E-8.133.1, PG&E-8.134.1, PG&E-8.135.1, PG&E-8.136.1, PG&E-8.137.1, PG&E-8.138.1, PG&E-8.139.1, PG&E-8.140.1, PG&E-8.141.1, PG&E-8.142.1, PG&E-8.143.1, PG&E-8.144.1, PG&E-8.145.1, PG&E-8.146.1, PG&E-8.147.1, PG&E-8.148.1, PG&E-8.149.1, PG&E-8.150.1, PG&E-8.151.1, PG&E-8.152.1, PG&E-8.153.1, PG&E-8.154.1, PG&E-8.155.1, PG&E-8.156.1, PG&E-8.157.1, PG&E-8.158.1, PG&E-8.159.1, PG&E-8.160.1, PG&E-8.161.1, PG&E-8.162.1, PG&E-8.163.1, PG&E-8.164.1, PG&E-8.165.1, PG&E-8.166.1, PG&E-8.167.1, PG&E-8.168.1, PG&E-8.169.1, PG&E-8.170.1, PG&E-8.171.1, PG&E-8.172.1, PG&E-8.173.1, PG&E-8.174.1, PG&E-8.175.1, PG&E-8.176.1, PG&E-8.177.1, PG&E-8.178.1, PG&E-8.179.1, PG&E-8.180.1, PG&E-8.181.1, PG&E-8.182.1, PG&E-8.183.1, PG&E-8.184.1, PG&E-8.185.1, PG&E-8.186.1, PG&E-8.187.1, PG&E-8.188.1, PG&E-8.189.1, PG&E-8.190.1, PG&E-8.191.1, PG&E-8.192.1, PG&E-8.193.1, PG&E-8.194.1, PG&E-8.195.1, PG&E-8.196.1, PG&E-8.197.1, PG&E-8.198.1, PG&E-8.199.1, PG&E-8.200.1, PG&E-8.201.1, PG&E-8.202.1, PG&E-8.203.1, PG&E-8.204.1, PG&E-8.205.1, PG&E-8.206.1, PG&E-8.207.1, PG&E-8.208.1, PG&E-8.209.1, PG&E-8.210.1, PG&E-8.211.1, PG&E-8.212.1, PG&E-8.213.1, PG&E-8.214.1, PG&E-8.215.1, PG&E-8.216.1, PG&E-8.217.1, PG&E-8.218.1, PG&E-8.219.1, PG&E-8.220.1, PG&E-8.221.1, PG&E-8.222.1, PG&E-8.223.1, PG&E-8.224.1, PG&E-8.225.1, PG&E-8.226.1, PG&E-8.227.1, PG&E-8.228.1, PG&E-8.229.1, PG&E-8.230.1, PG&E-8.231.1, PG&E-8.232.1, PG&E-8.233.1, PG&E-8.234.1, PG&E-8.235.1, PG&E-8.236.1, PG&E-8.237.1, PG&E-8.238.1, PG&E-8.239.1, PG&E-8.240.1, PG&E-8.241.1, PG&E-8.242.1, PG&E-8.243.1, PG&E-8.244.1, PG&E-8.245.1, PG&E-8.246.1, PG&E-8.247.1, PG&E-8.248.1, PG&E-8.249.1, PG&E-8.250.1, PG&E-8.251.1, PG&E-8.252.1, PG&E-8.253.1, PG&E-8.254.1, PG&E-8.255.1, PG&E-8.256.1, PG&E-8.257.1, PG&E-8.258.1, PG&E-8.259.1, PG&E-8.260.1, PG&E-8.261.1, PG&E-8.262.1, PG&E-8.263.1, PG&E-8.264.1, PG&E-8.265.1, PG&E-8.266.1, PG&E-8.267.1, PG&E-8.268.1, PG&E-8.269.1, PG&E-8.270.1, PG&E-8.271.1, PG&E-8.272.1, PG&E-8.273.1, PG&E-8.274.1, PG&E-8.275.1, PG&E-8.276.1, PG&E-8.277.1, PG&E-8.278.1, PG&E-8.279.1, PG&E-8.280.1, PG&E-8.281.1, PG&E-8.282.1, PG&E-8.283.1, PG&E-8.284.1, PG&E-8.285.1, PG&E-8.286.1, PG&E-8.287.1, PG&E-8.288.1, PG&E-8.289.1, PG&E-8.290.1, PG&E-8.291.1, PG&E-8.292.1, PG&E-8.293.1, PG&E-8.294.1, PG&E-8.295.1, PG&E-8.296.1, PG&E-8.297.1, PG&E-8.298.1, PG&E-8.299.1, PG&E-8.300.1, PG&E-8.301.1, PG&E-8.302.1, PG&E-8.303.1, PG&E-8.304.1, PG&E-8.305.1, PG&E-8.306.1, PG&E-8.307.1, PG&E-8.308.1, PG&E-8.309.1, PG&E-8.310.1, PG&E-8.311.1, PG&E-8.312.1, PG&E-8.313.1, PG&E-8.314.1, PG&E-8.315.1, PG&E-8.316.1, PG&E-8.317.1, PG&E-8.318.1, PG&E-8.319.1, PG&E-8.320.1, PG&E-8.321.1, PG&E-8.322.1, PG&E-8.323.1, PG&E-8.324.1, PG&E-8.325.1, PG&E-8.326.1, PG&E-8.327.1, PG&E-8.328.1, PG&E-8.329.1, PG&E-8.330.1, PG&E-8.331.1, PG&E-8.332.1, PG&E-8.333.1, PG&E-8.334.1, PG&E-8.335.1, PG&E-8.336.1, PG&E-8.337.1, PG&E-8.338.1, PG&E-8.339.1, PG&E-8.340.1, PG&E-8.341.1, PG&E-8.342.1, PG&E-8.343.1, PG&E-8.344.1, PG&E-8.345.1, PG&E-8.346.1, PG&E-8.347.1, PG&E-8.348.1, PG&E-8.349.1, PG&E-8.350.1, PG&E-8.351.1, PG&E-8.352.1, PG&E-8.353.1, PG&E-8.354.1, PG&E-8.355.1, PG&E-8.356.1, PG&E-8.357.1, PG&E-8.358.1, PG&E-8.359.1, PG&E-8.360.1, PG&E-8.361.1, PG&E-8.362.1, PG&E-8.363.1, PG&E-8.364.1, PG&E-8.365.1, PG&E-8.366.1, PG&E-8.367.1, PG&E-8.368.1, PG&E-8.369.1, PG&E-8.370.1, PG&E-8.371.1, PG&E-8.372.1, PG&E-8.373.1, PG&E-8.374.1, PG&E-8.375.1, PG&E-8.376.1, PG&E-8.377.1, PG&E-8.378.1, PG&E-8.379.1, PG&E-8.380.1, PG&E-8.381.1, PG&E-8.382.1, PG&E-8.383.1, PG&E-8.384.1, PG&E-8.385.1, PG&E-8.386.1, PG&E-8.387.1, PG&E-8.388.1, PG&E-8.389.1, PG&E-8.390.1, PG&E-8.391.1, PG&E-8.392.1, PG&E-8.393.1, PG&E-8.394.1, PG&E-8.395.1, PG&E-8.396.1, PG&E-8.397.1, PG&E-8.398.1, PG&E-8.399.1, PG&E-8.400.1, PG&E-8.401.1, PG&E-8.402.1, PG&E-8.403.1, PG&E-8.404.1, PG&E-8.405.1, PG&E-8.406.1, PG&E-8.407.1, PG&E-8.408.1, PG&E-8.409.1, PG&E-8.410.1, PG&E-8.411.1, PG&E-8.412.1, PG&E-8.413.1, PG&E-8.414.1, PG&E-8.415.1, PG&E-8.416.1, PG&E-8.417.1, PG&E-8.418.1, PG&E-8.419.1, PG&E-8.420.1, PG&E-8.421.1, PG&E-8.422.1, PG&E-8.423.1, PG&E-8.424.1, PG&E-8.425.1, PG&E-8.426.1, PG&E-8.427.1, PG&E-8.428.1, PG&E-8.429.1, 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PG&E-8.501.1, PG&E-8.502.1, PG&E-8.503.1, PG&E-8.504.1, PG&E-8.505.1, PG&E-8.506.1, PG&E-8.507.1, PG&E-8.508.1, PG&E-8.509.1, PG&E-8.510.1, PG&E-8.511.1, PG&E-8.512.1, PG&E-8.513.1, PG&E-8.514.1, PG&E-8.515.1, PG&E-8.516.1, PG&E-8.517.1, PG&E-8.518.1, PG&E-8.519.1, PG&E-8.520.1, PG&E-8.521.1, PG&E-8.522.1, PG&E-8.523.1, PG&E-8.524.1, PG&E-8.525.1, PG&E-8.526.1, PG&E-8.527.1, PG&E-8.528.1, PG&E-8.529.1, PG&E-8.530.1, PG&E-8.531.1, PG&E-8.532.1, PG&E-8.533.1, PG&E-8.534.1, PG&E-8.535.1, PG&E-8.536.1, PG&E-8.537.1, PG&E-8.538.1, PG&E-8.539.1, PG&E-8.540.1, PG&E-8.541.1, PG&E-8.542.1, PG&E-8.543.1, PG&E-8.544.1, PG&E-8.545.1, PG&E-8.546.1, PG&E-8.547.1, PG&E-8.548.1, PG&E-8.549.1, PG&E-8.550.1, PG&E-8.551.1, PG&E-8.552.1, PG&E-8.553.1, PG&E-8.554.1, PG&E-8.555.1, PG&E-8.556.1, PG&E-8.557.1, PG&E-8.558.1, PG&E-8.559.1, PG&E-8.560.1, PG&E-8.561.1, PG&E-8.562.1, PG&E-8.563.1, PG&E-8.564.1, PG&E-8.565.1, PG&E-8.566.1, PG&E-8.567.1, PG&E-8.568.1, PG&E-8.569.1, PG&E-8.570.1, PG&E-8.571.1, PG&E-8.572.1, PG&E-8.573.1, PG&E-8.574.1, PG&E-8.575.1, PG&E-8.576.1, PG&E-8.577.1, PG&E-8.578.1, PG&E-8.579.1, PG&E-8.580.1, PG&E-8.581.1, PG&E-8.582.1, PG&E-8.583.1, PG&E-8.584.1, PG&E-8.585.1, PG&E-8.586.1, PG&E-8.587.1, PG&E-8.588.1, PG&E-8.589.1, PG&E-8.590.1, PG&E-8.591.1, PG&E-8.592.1, PG&E-8.593.1, PG&E-8.594.1, PG&E-8.595.1, PG&E-8.596.1, PG&E-8.597.1, PG&E-8.598.1, PG&E-8.599.1, PG&E-8.600.1, PG&E-8.601.1, PG&E-8.602.1, PG&E-8.603.1, PG&E-8.604.1, PG&E-8.605.1, PG&E-8.606.1, PG&E-8.607.1, PG&E-8.608.1, PG&E-8.609.1, PG&E-8.610.1, PG&E-8.611.1, PG&E-8.612.1, PG&E-8.613.1, PG&E-8.614.1, PG&E-8.615.1, PG&E-8.616.1, PG&E-8.617.1, PG&E-8.618.1, PG&E-8.619.1, PG&E-8.620.1, PG&E-8.621.1, PG&E-8.622.1, PG&E-8.623.1, PG&E-8.624.1, PG&E-8.625.1, PG&E-8.626.1, PG&E-8.627.1, PG&E-8.628.1, PG&E-8.629.1, PG&E-8.630.1, PG&E-8.631.1, PG&E-8.632.1, PG&E-8.633.1, PG&E-8.634.1, PG&E-8.635.1, PG&E-8.636.1, PG&E-8.637.1, PG&E-8.638.1, PG&E-8.639.1, PG&E-8.640.1, PG&E-8.641.1, PG&E-8.642.1, PG&E-8.643.1, PG&E-8.644.1, PG&E-8.645.1, PG&E-8.646.1, PG&E-8.647.1, PG&E-8.648.1, PG&E-8.649.1, PG&E-8.650.1, PG&E-8.651.1, PG&E-8.652.1, PG&E-8.653.1, PG&E-8.654.1, PG&E-8.655.1, PG&E-8.656.1, PG&E-8.657.1, PG&E-8.658.1, PG&E-8.659.1, PG&E-8.660.1, PG&E-8.661.1, PG&E-8.662.1, PG&E-8.663.1, PG&E-8.664.1, PG&E-8.665.1, PG&E-8.666.1, PG&E-8.667.1, PG&E-8.668.1, PG&E-8.669.1, PG&E-8.670.1, PG&E-8.671.1, PG&E-8.672.1, PG&E-8.673.1, PG&E-8.674.1, PG&E-8.675.1, PG&E-8.676.1, PG&E-8.677.1, PG&E-8.678.1, PG&E-8.679.1, PG&E-8.680.1, PG&E-8.681.1, PG&E-8.682.1, PG&E-8.683.1, PG&E-8.684.1, PG&E-8.685.1, PG&E-8.686.1, PG&E-8.687.1, PG&E-8.688.1, PG&E-8.689.1, PG&E-8.690.1, PG&E-8.691.1, PG&E-8.692.1, PG&E-8.693.1, PG&E-8.694.1, PG&E-8.695.1, PG&E-8.696.1, PG&E-8.697.1, PG&E-8.698.1, PG&E-8.699.1, PG&E-8.700.1, PG&E-8.701.1, PG&E-8.702.1, PG&E-8.703.1, PG&E-8.704.1, PG&E-8.705.1, PG&E-8.706.1, PG&E-8.707.1, PG&E-8.708.1, PG&E-8.709.1, PG&E-8.710.1, PG&E-8.711.1, PG&E-8.712.1, PG&E-8.713.1, PG&E-8.714.1, PG&E-8.715.1, PG&E-8.716.1, PG&E-8.717.1, PG&E-8.718.1, PG&E-8.719.1, PG&E-8.720.1, PG&E-8.721.1, PG&E-8.722.1, PG&E-8.723.1, PG&E-8.724.1, PG&E-8.725.1, PG&E-8.726.1, PG&E-8.727.1, PG&E-8.728.1, PG&E-8.729.1, PG&E-8.730.1, PG&E-8.731.1, PG&E-8.732.1, PG&E-8.733.1, PG&E-8.734.1, PG&E-8.735.1, PG&E-8.736.1, PG&E-8.737.1, PG&E-8.738.1, PG&E-8.739.1, PG&E-8.740.1, PG&E-8.741.1, PG&E-8.742.1, PG&E-8.743.1, PG&E-8.744.1, PG&E-8.745.1, PG&E-8.746.1, PG&E-8.747.1, PG&E-8.748.1, PG&E-8.749.1, PG&E-8.750.1, PG&E-8.751.1, PG&E-8.752.1, PG&E-8.753.1, PG&E-8.754.1, PG&E-8.755.1, PG&E-8.756.1, PG&E-8.757.1, PG&E-8.758.1, PG&E-8.759.1, PG&E-8.760.1, PG&E-8.761.1, PG&E-8.762.1, PG&E-8.763.1, PG&E-8.764.1, PG&E-8.765.1, PG&E-8.766.1, PG&E-8.767.1, PG&E-8.768.1, PG&E-8.769.1, PG&E-8.770.1, PG&E-8.771.1, PG&E-8.772.1, PG&E-8.773.1, PG&E-8.774											

184	SFD	004	SFD_004	20	No	SFD_004_Q20	PG&E Response to SFD-POE-WMP2024-003 Question 9 included Tables 1, 2 and 3. Provide Excel versions of these tables: a. Confirm that the Address Letter PG&E referred to in response to SFD-POE-WMP2024-003 Question 9 was not "PG&E Advice 7150 E-A" but rather PG&E Advice 7150 E-A. b. Include the "Workshop Draft" Worksheet that was used to generate Tables 1 and 2 and is required by PG&E Advice 7150 E-A. c. Ensure that all of the cells in Tables 1, 2 and 3 include formulas for calculating each number by referencing the worksheets included in Questions 20 and 20c. d. Check the submitted Table 1 – some cells appear merged when in fact they should not be merged. For instance, for WORM at total where Mitigation Type is Line Removal, the Total and 2025 are merged. Correct the table or explain why the cells are merged. e. Similarly, some cells appear to be split – for instance for 2023, there are two values for many of the mitigation types.	Please see attachment "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc", worksheet "Summary Final_WMP_Discovery". a. Yes, PG&E intended to reference PG&E Advice 7150 E-A in response to SFD-POE-WMP2024-003 Question 9. b. See attached "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc" – Project Details, 2025 + 2028 LG, 2025 + 2028 CH, and 2025 + 2028 LR Tabs. c. See attached "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc" – Project Details and the 2024 Workshop Tabs. d. WMP-Discovery2024-2028_DR_SFD_004-Q20 Page 2 e. See attached "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc", each calculation includes the requested formula. f. Merged cells in the attached "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc" have been corrected. g. Split cells in the attached "WMP-Discovery2024-2028_DR_SFD_004-Q20A01.doc" have been corrected. Please note that in the attachment, PG&E has included "unallocated" risk reduction for circuit segments that have been fully mitigated, but where discrepancies exist between circuit segment length data (as specified in the applicable version of the WORM) and field as-built data. For example, unallocated overhead removal occurs when the mitigation footage recorded in our as-built dataset is less than the total length of the original overhead being mitigated. As an example, this can occur when a more direct route with fewer bends than the original route is installed. Although the risk associated with the original overhead line is still addressed, it may not be reflected under the three mitigation categories (CH, LG, or Removal). To ensure every part of the original overhead line is accounted for in the risk reduction calculation, the "unallocated" difference must be included for a comprehensive assessment.	Edie Schmidt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	1	No	CH-04	CH-04	CH-04
185	SFD	004	SFD_004	21	No	SFD_004_Q21	Figure PG&E 5-2.1 in the 2025-2028 Base WMP presents "Outage Probability Vegetation" as a Model. Section 5.2.2 Distribution Event Probability Models Version 4 (DEPM) documentation is dedicated to describing "Vegetation Models". Pg. 60 presents "asset-based event models" and "contact from object" models but does not present "vegetation models". Does the "contact from object" description apply to "vegetation models"? If not: a. Why are vegetation models not discussed in pg. 60 of the 2025-2028 Base WMP? b. How are vegetation models integrated into the calculation of probability of ignition given energy? c. Compared with the Asset Equipment or Contact from Object models, are there any differences in how vegetation models are integrated into the calculation of probability of ignition? If so, list them and explain why there are differences.	a. PG&E categorizes "vegetation models" within "contact from object" models (i.e., vegetation contacted the line). Thus, vegetation models, which are plant-based, are described on page 60 of the WMP as part of the description of contact from object models. b. Vegetation models are integrated as described for "contact from object" models, which are all plant-based. c. Vegetation models are integrated as described for "contact from object" models, which are all plant-based.	Edie Schmidt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	0	No	5	Risk Methodology & Assessment	5.2.1
186	SFD	004	SFD_004	22	No	SFD_004_Q22	Provide a description of each of the alphanumeric customer categories listed in Table PG&E 5.2.2.2-2 in the 2025-2028 Base WMP. a. In the description of each alphanumeric customer category, explain why the category is important to the public safety and why it is important to the public safety. b. What justification did PG&E use to establish the relative customer weightings? PG&E explains that CCI has higher consequence, but why? "Extreme" weighted 20% more than "Significant".	a. PG&E categorizes Critical Customers according to both the California Public Utilities Commission (CPUC) definition and PG&E's internal designations. See table below for description and explanation of how PG&E established each category. b. The relative importance of each alphanumeric customer category is established in Table PG&E 5.2.2-2 where the relative importance of each alphanumeric customer category is established. PG&E's internal designations are based on the relative importance of each alphanumeric customer category. PG&E subject matter experts used that best judgment to determine the relative weighting modifiers. For example, "Extreme" is weighted 20% higher than "Significant" because PG&E's subject matter experts determined that public emergency response infrastructure warranted such relative prioritization.	Edie Schmidt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	0	No	5	Risk Methodology & Assessment	5.2.2.2
187	SFD	004	SFD_004	23	No	SFD_004_Q23	Related to Figure PG&E 5.2.2.3-1 in the 2025-2028 Base WMP on pg. 72, PG&E states "... the two circuit segments share a common point, PE, and a that support structure (pole) asset also located in point PE. To keep the total sum of risk on the network constant, these shared risk results must be partially distributed to each of the circuit segments. The aggregation methodology, in this case, would assign half of the PE point risk and half of the support structure risk to each of the circuit segments." a. Submit "RADA Algorithms and Methodologies" b. If not explained in "RADA Algorithms and Methodologies" please explain: 1. Why, in this example, was the risk distributed to each of the circuit segments equally? a) If so, explain what these instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment. b) If not, explain why. c. Are there instances of a plant sharing more than two circuit segments? 1. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names. 2. If not, explain why not.	a. Please see attachment "WMP-Discovery2024-2028_DR_SFD_004-Q23A01.pdf" for the requested information.	Edie Schmidt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	1	No	5	Risk Methodology & Assessment	5.2.2.2
187	SFD	004	SFD_004	23(a)	Yes	SFD_004_Q23(a)	Related to Figure PG&E 5.2.2.3-1 in the 2025-2028 Base WMP on pg. 72, PG&E states "... the two circuit segments share a common point, PE, and a that support structure (pole) asset also located in point PE. To keep the total sum of risk on the network constant, these shared risk results must be partially distributed to each of the circuit segments. The aggregation methodology, in this case, would assign half of the PE point risk and half of the support structure risk to each of the circuit segments." a. Submit "RADA Algorithms and Methodologies" b. If not explained in "RADA Algorithms and Methodologies" please explain: 1. Why, in this example, was the risk distributed to each of the circuit segments equally? a) If so, explain what these instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment. b) If not, explain why. c. Are there instances of a plant sharing more than two circuit segments? 1. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names. 2. If not, explain why not.	b. Section 4.2 of "RADA Algorithms and Methodologies" explains circuit segment aggregation of plant and asset risk. c. MaxEnt model produce risk values for each plant location that contains one or more assets. However, when a plant is intersected by multiple circuit segments, it is very difficult to understand which circuit segment might be impacted by a failure event. For example, if a branch line near a plant and that supports multiple primary conductors that belong to two different circuit segments, the branch may cause a failure to the first circuit segment, the second circuit segment or both circuit segments. Since there is a way to know which specific asset will be impacted, the risk of the event is distributed evenly to the two circuit segments as the best estimate of future risk. d. The plant risk is also distributed equally. e. Risk from shared poles is always distributed equally. f. Risk from shared poles is always distributed equally. g. There are many plants that are intersected by more than two circuit segments. h. PG&E determines the proportion of risk that should be attributed to each circuit segment by using a typical line based near substations. An example of a plant with more than two intersecting circuit segments is Plant 4358, 1525 located in Vallejo. i. Plant 4358, 1525 is intersected by three circuit segments VALLEJO B 1103CB VALLEJO B 1103CB VALLEJO B 0415CB j. A plant can be intersected by more than two circuit segments as demonstrated above.	Edie Schmidt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	1	No	5	Risk Methodology & Assessment	5.2.2.2
188	SFD	004	SFD_004	24	No	SFD_004_Q24	When discussing PSPS Risk on pages 74-75 in the 2025-2028 Base WMP, PG&E states that "PSPS likelihood and PSPS consequence are calculated by the probability and consequence of each individual customer service point (ID) (SPD)". Describe each step in the procedure that PG&E takes to estimate the PSPS likelihood and consequence of each individual customer service point_ID. a. Explain how PG&E predicts where PSPS events will occur for customers that PG&E has not had a PSPS event. b. Explain how PG&E uses each of the Model Inputs listed in Figure PG&E 8-1.1 to estimate PSPS likelihood for each individual customer service point_ID. c. Figure 8B notes that the "combination of weather, switching and restoration is represented as total CM". Are the values associated with weather, switching and restoration measured in CM and just added together? Additionally, explain the following: 1. How does PG&E estimate the severity of an expected weather period in which a customer is expected to be energized? 2. How does PG&E come up with the estimate that period and restoration typically takes? 3. Why did PG&E not use Estimated Time of Restoration?	a. PG&E's Outage PSPS Risk model does not predict future PSPS events in the traditional sense. Instead, it uses a data-driven approach that incorporates both historical and forecasted event data to estimate risk at the individual customer service point_ID (SPD) level that has seen a PSPS outage in the past. b. The likelihood events are leveraged by utilizing the frequency of events. The likelihood includes all potential weather events and identifies the customer impacted and duration. In addition, the likelihood also identifies what type of event it was (i.e., On only, On/Off). c. Additionally, a customer weighting is applied to prioritize customers at higher risk. Essentially, there is a risk for each historical customer event, and that can be aggregated to the granularity of a customer, location, zone, CPZ, or circuit. d. Yes, the values associated with weather, switching and restoration measured in Customer Minutes Interrupted (CMI) are added together. e. PG&E estimates severity through PG&E's Meteorology models and historic weather events. f. This is a historical average over a five year, it was used to reflect a value as close to reality as possible, and is included in the likelihood events data as part of the total outage duration. g. PG&E 08B1 uses Estimated Time of Restoration (ETOR) because the default value in the likelihood dataset is a placeholder (24 hours after All Clear) which is a conservative estimate. For real PSPS events, this gets updated based on actual conditions like terrain, daylight, and crew availability. But for hypothetical likelihood events, no such updates were made. Also, ETOR reflects the time to restore the last customer on a Time Phase (TP), which normalizes the average restoration time for most customers. So, using it would misrepresent the typical customer experience.	Edie Schmidt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	0	No	7	Public Safety Power Shutoff	7
189	SFD	004	SFD_004	25	No	SFD_004_Q25	Clarification of the terminology used in the documentation. The paragraphs are intended to be the terminology used in the WMP guidelines to the terminology used by the WFC modeling team. In the WFC guidelines, Burn Probability is the frequency with which a fire reaches a given location over a range of different conditions. For the WFC, the range of conditions used are the worst fire weather days (approximately 30 each year), determined by the meteorology department, for 2012-2022 and the historical record of fire that occurred in the region. The WFC also uses the meteorology department's simulation of the conditions of a specific weather day, the fire simulations are deterministic, which is why the description takes the term "deterministic". a. PG&E's deterministic assessment of Burn Probability. b. PG&E's deterministic assessment of Burn Probability. c. PG&E's deterministic assessment of Burn Probability. d. PG&E's deterministic assessment of Burn Probability. e. PG&E's deterministic assessment of Burn Probability. f. PG&E's deterministic assessment of Burn Probability. g. PG&E's deterministic assessment of Burn Probability. h. PG&E's deterministic assessment of Burn Probability. i. PG&E's deterministic assessment of Burn Probability. j. PG&E's deterministic assessment of Burn Probability. k. PG&E's deterministic assessment of Burn Probability. l. PG&E's deterministic assessment of Burn Probability. m. PG&E's deterministic assessment of Burn Probability. n. PG&E's deterministic assessment of Burn Probability. o. PG&E's deterministic assessment of Burn Probability. p. PG&E's deterministic assessment of Burn Probability. q. PG&E's deterministic assessment of Burn Probability. r. PG&E's deterministic assessment of Burn Probability. s. PG&E's deterministic assessment of Burn Probability. t. PG&E's deterministic assessment of Burn Probability. u. PG&E's deterministic assessment of Burn Probability. v. PG&E's deterministic assessment of Burn Probability. w. PG&E's deterministic assessment of Burn Probability. x. PG&E's deterministic assessment of Burn Probability. y. PG&E's deterministic assessment of Burn Probability. z. PG&E's deterministic assessment of Burn Probability.	a. PG&E's deterministic assessment of Burn Probability. b. PG&E's deterministic assessment of Burn Probability. c. PG&E's deterministic assessment of Burn Probability. d. PG&E's deterministic assessment of Burn Probability. e. PG&E's deterministic assessment of Burn Probability. f. PG&E's deterministic assessment of Burn Probability. g. PG&E's deterministic assessment of Burn Probability. h. PG&E's deterministic assessment of Burn Probability. i. PG&E's deterministic assessment of Burn Probability. j. PG&E's deterministic assessment of Burn Probability. k. PG&E's deterministic assessment of Burn Probability. l. PG&E's deterministic assessment of Burn Probability. m. PG&E's deterministic assessment of Burn Probability. n. PG&E's deterministic assessment of Burn Probability. o. PG&E's deterministic assessment of Burn Probability. p. PG&E's deterministic assessment of Burn Probability. q. PG&E's deterministic assessment of Burn Probability. r. PG&E's deterministic assessment of Burn Probability. s. PG&E's deterministic assessment of Burn Probability. t. PG&E's deterministic assessment of Burn Probability. u. PG&E's deterministic assessment of Burn Probability. v. PG&E's deterministic assessment of Burn Probability. w. PG&E's deterministic assessment of Burn Probability. x. PG&E's deterministic assessment of Burn Probability. y. PG&E's deterministic assessment of Burn Probability. z. PG&E's deterministic assessment of Burn Probability.	Edie Schmidt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	0	No	5	Risk Methodology & Assessment	5.4
190	SFD	004	SFD_004	26	No	SFD_004_Q26	What steps has PG&E taken to archive any data or models related to WORM v3? a. Have any aspects of WORM v3 not been archived? If so, explain why they were not archived. b. If any aspects of WORM v3 were not archived, would this prevent a party from using the data analysis using WORM v3 in the future? c. How long will PG&E maintain the archive of the data or models related to WORM v3? d. Why does PG&E maintain the archive of the data or models related to WORM v3? e. PG&E wanted to backtest the risk in pre-2023 years using WORM v4? How is PG&E working to ensure that future models have the data necessary to backtest the risk in current system configurations?	a. WORM v3 has been archived. The WORM version archive includes all source data, model code, and output data. b. All aspects of WORM v3 have been archived and will be available for future analysis requests. c. Currently, WORM v4 has been archived indefinitely. However, as additional WORM versions are produced for future WORMs, PG&E may adapt an end-of-the-relation policy in the future to deprecate older model versions once an mitigation project work supported by a version has been completed or cancelled. d. PG&E is working to ensure that future models have the data necessary to backtest the risk in current system configurations.	Edie Schmidt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/worm-pge-proposed-and-assessed-2025-2028-074-004.xls	0	No	5	Risk Methodology & Assessment	5.4

190	SPD	004	SPD_004	26(a)	Yes	SPD_004_Q26(a)	What steps has PG&E taken to archive any data or models related to WORM v3? a. Have any aspects of WORM v3 not been archived? If so, explain why they were not archived? i. If any aspects of WORM v3 were not archived, would this prevent a party from using data for analysis using WORM v3 in the future? ii. How long will PG&E maintain its archive of the data or models related to WORM v3? iii. What data is PG&E maintaining in its archive and what data would be missing if PG&E wanted to backtest the risk in pre-2023 years using WORM v4? How is PG&E working to ensure that future models have the data necessary to backtest the risk to current system configurations?	Edie Schmitt	4/30/2025	5/19/2025	5/19/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-026.pdf	0	No	5	Risk Methodology & Assessment	5.4
191	SPD	004	SPD_004	27	No	SPD_004_Q27	List of the feasibility constraints that are relevant to the decision trees found in Figures PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2024-2028 Base WMP. a. How are these feasibility constraints operationalized within these decision trees? b. How are these feasibility constraints quantified? c. How are these feasibility constraints addressed in PG&E's Cost Benefit Analysis?	Edie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-027.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
192	SPD	004	SPD_004	28	No	SPD_004_Q28	On page 124 in the 2024-2028 Base WMP, PG&E states that it has adopted a consistent treatment of risk tolerance in its risk assessment and mitigation strategies. In an Administrative Law Judge Ruling dated April 22 2025 in the PG&E 2024 RAMP Proceedings (A-24-05-008), PG&E was ordered to not refer to "risk tolerance" to justify risk mitigation activities in the 2027 GRC Risk Cases. a. Explain which mitigations discussed in the 2025-2028 WMP will need to be reconsidered in light of this order. b. Explain how and why risk tolerance was used as a justification for selecting those mitigation strategies. c. Explain what risk tolerance played in the decision trees found in Figures PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2024-2028 Base WMP. d. Explain how these three decision trees will change in light of the ALJ Ruling. e. Explain any other decision-making processes, protocols, tool or other approach where a treatment of risk tolerance was integrated into PG&E's mitigation selection process. f. Explain how these approaches will change in light of the ALJ Ruling.	Edie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-028.pdf	0	No	5	Risk Methodology & Assessment	5
193	SPD	004	SPD_004	29	No	SPD_004_Q29	Provide a detailed explanation of how PG&E addresses tail risk in its risk models presented in the 2024-2028 Base WMP? a. Is the EORM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not? b. Is the WORM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not? c. Is the WTRM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not?	Edie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-029.pdf	0	No	5	Risk Methodology & Assessment	5.4
194	SPD	004	SPD_004	30	No	SPD_004_Q30	Provide a detailed explanation of how PG&E applies the risk scaling function in its risk models presented in the 2024-2028 Base WMP? a. Is the risk scaling function applied to the EORM? If so, how? If not, why not? b. Is the risk scaling function applied to the WORM? If so, how? If not, why not? c. Is the risk scaling function applied to the WTRM? If so, how? If not, why not?	Edie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-030.pdf	0	No	5	Risk Methodology & Assessment	5.4
195	SPD	004	SPD_004	31	No	SPD_004_Q31	On page 124 in the 2024-2028 Base WMP, PG&E states "PG&E's investment planning group leverages the CBRI and the RCF to prioritize the proposed investments to achieve risk reduction at a reasonable cost as part of the GRC forecast." a. How does PG&E leverage CBRI to prioritize investments in risk reduction? Explain. b. List which non-CBRI aspects of the RCF PG&E leverages to prioritize investments in risk reduction. c. Explain how PG&E leverages those non-CBRI aspects of the RCF to prioritize investments in risk reduction. d. Define "reasonable cost." Explain how PG&E incorporates "reasonable cost" as a constraint in its risk models.	Edie Schmitt	4/30/2025	5/19/2025	5/19/2025	https://www.epg.com/assets/epg/docs/interlocutor-and-cbri/cbri-proceedings-and-appeals/2025-2028-SPD_004-031.pdf	0	No	3	Overview of WMP	3.6

196	SPD	004	SPD_004	32	No	SPD_004_Q32	On page 125 in the 2025-2028 Base WMP, PG&E explains that SME Judgement is integrated into the process of mitigation selection through "cross-functional working groups". Provide a detailed narrative description of how these cross-functional working groups operate. a. List each type of document or other kind of information that is selected at these cross-functional working groups. b. Are there any documents or other kinds of information that were generated by the cross-functional working group when selecting mitigations on a circuit segment CORNING 11016152? c. Do the working groups evaluate every asset within a circuit segment to determine which mitigation should be implemented? d. If not, explain how this is done. e. If not, explain why not. f. List the results the SME's review to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment. g. Explain how the SME's use each of these results to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.	2. During the cross-functional working group, PG&E creates the design/strategy implementation documents for each job, which includes information on job location and addresses timing jurisdiction, functional and estimating team notes, design considerations, and the following appendices: a. APPENDIX A – ENGAGEMENT RISK & SUPPORTING DOCUMENTS b. APPENDIX B – SEGMENTATION RISK c. APPENDIX C – SUBORDINATE TABLE d. APPENDIX D – WORKSHEET DESCRIPTION e. APPENDIX E – KEY SPOTCHECK f. APPENDIX F – WILDFIRE BENEFIT COST ANALYSIS (WBCA) TOOL OUTPUTS g. APPENDIX G – EC TAG LIST h. APPENDIX H – LAND RIGHTS RISK & SUPPORTING DOCUMENTS i. APPENDIX I – VEGETATION MANAGEMENT & SUPPORTING DOCUMENTS j. APPENDIX J – ENVIRONMENTAL RISK & SUPPORTING DOCUMENTS k. APPENDIX K – PUBLIC SAFETY RISK & SUPPORTING DOCUMENTS l. APPENDIX L – PE SCHEDULE m. APPENDIX M – C&E FACILITY n. The documents are related to PG&E's Electronic Document Routing System (EDRS). o. CORNING 11016152 is still at the early stages of scoping, and we have not developed the full job package. p. No, we do not evaluate every asset within a circuit segment to determine which mitigation should be evaluated. q. NA. r. The Scoping working groups evaluate the circuit segment for overall feasibility, vegetation risk exposure, constructability, cost estimate, engineering concerns, land and environmental impacts, permitting requirements, and risk reduction benefits to help develop the best mitigation. s. The cross-functional Scoping working group may provide the following insights and recommendations, which would help our decision for the mitigation selection, although the list provided below attempts to thoroughly set forth common insights and recommendations provided during the working group. It may not be an exhaustive list, and additional factors could be discussed depending on the nature of the project. t. Land / Encroachment / Environmental – Reviews work proposal and provides approximate time for land acquisition or permitting based on environmental status. u. Public Safety Specialist (PSS) – Provides recommendations on which poles to underground based on engineering concerns. v. Vegetation – Provides input if enhanced vegetation work is required if proceeding with overhead hardening.	Edde Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/outage-preparedness-and-safety/outage-preparedness-and-safety/2025-2028-SPD_004-01	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
197	SPD	004	SPD_004	33	No	SPD_004_Q33	On page 125 in the 2025-2028 Base WMP, PG&E explains that the cross-functional working groups provide both qualitative risk assessments and qualitative operational insights. Provide a list of the qualitative operational insights. a. Describe how each of these qualitative operational insights can contribute to the mitigation selection. b. Provide an example. Explain how and why each of these qualitative operational insights either did or did not inform the decision of mitigations on circuit segment CORNING 11016152. c. Describe how each of these qualitative operational insights are integrated into the decision tree found in Figure PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2025-2028 Base WMP. d. Which of the steps in the decision tree reviews these qualitative operational insights? How is that performed?	The following is a list of the key qualitative operational insights used by the cross-functional working group. Although the list provided below attempts to thoroughly set forth common qualitative insights that contribute to mitigation selection, it may not be an exhaustive list. a. High time value potential, including an assessment of the current quantitative data with the vegetation management team. b. High engineering concerns and major historical fire data identified by the Public Safety Specialist (PSS). c. Construction management feasibility, which accounts for local geology, including land rights and/or permitting challenges. d. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. e. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. f. The CORNING 11016152 project is still in the early stages of scoping and PG&E can provide information on the qualitative operational insights into the analysis. g. Qualitative insights on any given project are discussed during the Hybrid Analysis and Desktop Scoping Meeting (Figures 8.2.1-2 and 8.2.1-3). h. During the Desktop Scoping Meeting, the cross-functional team reviews the qualitative insights to answer the question: Are there any significant dependency or constructability limitations in the areas of impact? (Figure 8.2.1-3). i. Various mitigation measures are considered for the circuit segment and are evaluated for their effectiveness in addressing the risk to the circuit segment. PG&E defines local factors (factors that are unique to that project location) to be the same as the qualitative factors described in the response to WMP 2025-2028 SPD, Q32 (with the exception of the PPS Factors, which is a quantitative measurement and included below). The primary local factors considered when selecting a mitigation include those listed below. Although the list provided below attempts to thoroughly set forth common local factors that PG&E considers when selecting a mitigation, it may not be an exhaustive list. j. High time value potential, including an assessment of the current quantitative data provided by the vegetation management team. k. High engineering concerns and major historical fire data identified by the Public Safety Specialist (PSS). l. Construction management feasibility assessment, which accounts for local geology, including presence of hard rock, steep terrain, and water crossings. m. Environmental considerations, such as sensitive habitats. n. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. o. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. p. Public Safety Power Shutoff (PSPS) history in the area, assessed by reviewing the PSPS polygon data. The polygon data shows the area affected for each PSPS event in the lookback period that identifies which of the overhead assets will have required deenergization. q. PG&E's list of local factors was developed by participants in the cross-functional Scoping working group who leverage their historical knowledge and local requirements. These participants' offer feedback informed by their engagement with key stakeholders, such as agencies, cities, counties, tribes, and local communities, to ensure alignment with relevant local regulations and address local needs. This collaborative input helped shape the list of local factors that PG&E effectively addresses local considerations when selecting mitigations. r. Additional factors were considered but removed from the list. s. These local factors can inform PG&E's mitigation selection at two key stages leading up to and during the scoping process. t. PG&E's PSS completes the Cost Benefit Analysis (Figure 8.2.1-3, 2.1) and a Critical Protection Zone (CPZ) does not meet the Cost Benefit Ratio (CBR) and Net Benefit requirements for an underground solution, PG&E initiates a hybrid analysis. As part of the hybrid analysis, PG&E identifies local factors such as tree line potential, engineering, and/or PSPS polygons affecting the CPZ. PG&E continues the reevaluation of Overhead to Underground ratios until the CBR and Net Benefit requirements are met, in some cases, this analysis	Edde Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/outage-preparedness-and-safety/outage-preparedness-and-safety/2025-2028-SPD_004-01	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
198	SPD	004	SPD_004	34	No	SPD_004_Q34	On page 125 in the 2025-2028 Base WMP, PG&E explains that when selecting a mitigation it considers relevant local factors on a case-by-case basis. a. Provide a list of local factors that PG&E considers when selecting a mitigation. b. Describe how this list of local factors was established by PG&E. c. Explain why. d. Describe how each of these local factors can inform mitigation selection. e. Describe how each of these local factors are integrated into the decision tree found in Figure PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2025-2028 Base WMP. f. Which of the steps in the decision tree reviews these local factors? How is that performed?	Construction management feasibility assessment, which accounts for local geology, including presence of hard rock, steep terrain, and water crossings. Environmental considerations, such as sensitive habitats. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. Public Safety Power Shutoff (PSPS) history in the area, assessed by reviewing the PSPS polygon data. The polygon data shows the area affected for each PSPS event in the lookback period that identifies which of the overhead assets will have required deenergization. PG&E's list of local factors was developed by participants in the cross-functional Scoping working group who leverage their historical knowledge and local requirements. These participants' offer feedback informed by their engagement with key stakeholders, such as agencies, cities, counties, tribes, and local communities, to ensure alignment with relevant local regulations and address local needs. This collaborative input helped shape the list of local factors that PG&E effectively addresses local considerations when selecting mitigations. Additional factors were considered but removed from the list. These local factors can inform PG&E's mitigation selection at two key stages leading up to and during the scoping process. PG&E's PSS completes the Cost Benefit Analysis (Figure 8.2.1-3, 2.1) and a Critical Protection Zone (CPZ) does not meet the Cost Benefit Ratio (CBR) and Net Benefit requirements for an underground solution, PG&E initiates a hybrid analysis. As part of the hybrid analysis, PG&E identifies local factors such as tree line potential, engineering, and/or PSPS polygons affecting the CPZ. PG&E continues the reevaluation of Overhead to Underground ratios until the CBR and Net Benefit requirements are met, in some cases, this analysis	Edde Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/outage-preparedness-and-safety/outage-preparedness-and-safety/2025-2028-SPD_004-01	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
199	SPD	004	SPD_004	35	No	SPD_004_Q35	On page 122 in the 2025-2028 Base WMP, PG&E states that it looks at its "highest risk circuit segments" to determine where to target the work included in the WMP. a. Within these "highest risk circuit segments", what aspects does PG&E consider in order to determine the timing of implementing mitigations on these "highest risk circuit segments"? b. Does PG&E consider the LufE and CORE values of these circuit segments when determining the timing of implementing mitigations on these "highest risk circuit segments"? If so, how? If not, why not?	a. PG&E is providing a response to this question for system hardening and underground. PG&E selects system hardening and underground based on the risk model's ranking of the highest risk circuit segments. Other WMP programs reference the risk model but focus on addressing the location where the specific risk is present. b. Circuit segments are selected for scoping from 1-N based on ignition risk rank. Certain circuit segments may be excluded. For example, they are already hardened, are privately owned, are very short, or are already in a workshop. PG&E generally prioritizes execution of projects in the same order that scoping is completed. Once a project has completed scoping and other pre-construction activities (e.g. design, estimating and permitting) are complete, PG&E will begin construction as soon as practicable. c. While our approach is to begin hardening as soon as practicable after scoping is complete, there are timing factors identified through the design/estimating and permitting process that impact when projects can be implemented, such as: - Construction management feasibility which accounts for local geology, including presence of hard rock, steep terrain, water crossings. - Environmental considerations including sensitive habitats. - Cultural or historical considerations including tribal lands. - Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and/or permitting challenges. - When it seems like a project may be delayed, PG&E also works to improve timing (complete mitigations more quickly) by separating projects into multiple phases and/or sub-phases and timing the timing constraints to smaller sections of work. d. No, LufE and CORE values are not considered independently when planning for the sequencing and timing of projects or sub-projects. While both likelihood and consequence are important components of risk, their product (i.e., risk) is the primary focus when prioritizing mitigations. More specifically, PG&E uses the severity of risk, such as risk per mile, to rank circuit segments 1-N. PG&E then prioritizes projects for execution in ascending risk rank order based on the model used at the time of selection, while considering the operational limitations noted in response to part a above.	Edde Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/outage-preparedness-and-safety/outage-preparedness-and-safety/2025-2028-SPD_004-01	0	No	5	Risk Methodology & Assessment	5.2.3
200	SPD	004	SPD_004	36	No	SPD_004_Q36	Throughout the 2025-2028 Base WMP, PG&E uses the terms system hardening, grid hardening, and roadway mitigation activities to describe the same category of mitigations, namely undergrounding covered conductor and distribution line removal. Explain why PG&E uses three different terms for the category of mitigations. a. Are there differences between these terms? If so, explain.	Note: All references in this response are specific to distribution-related terms in PG&E's 2025-2028 Base WMP. R6, April 4, 2025. Resilience Mitigation Resilience Mitigation describes one of the four categories of mitigations that support PG&E's foundational framework of risk-informed decision-making designed to minimize ignition risk and outage impacts. PG&E's system resilience activities are critical to permanently reducing wildfire risk, minimizing negative aspects of PSPS and EPSS, and strengthening the grid against extreme weather events (p. 5). System Resilience describes mitigations designed to reduce ignition risk by changing how PG&E's grid is constructed and operated (2025-2028 Base WMP, R6, p. 255). Resilience Mitigation describes a broader category of mitigations than just system hardening. While Resilience Mitigation includes system hardening activities (distribution undergrounding, distribution covered conductor, distribution line removal), it also includes non-system hardening mitigations, such as distribution pole replacement and reinforcement and HFTEDFPA open bay tag reduction - distribution line removal (2025-2028 Base WMP, R6, Figure PG&E-8.3.3.1). System Hardening System hardening describes two distribution system hardening initiatives: 1. Covered conductor (CC) installation and line removal, including remote grids (GRs) and 2. Distribution undergrounding (GU40). Grid Hardening WMP Section 8.2.2 is called "Grid Hardening." PG&E uses the term "grid hardening" in our Section 8.2.2 narrative to align to the title of WMP Section 8.2.2 as specified by Energy Safety in its 2025-2028 WMP Guidelines. In PG&E's Section 8.2.2 narrative, we state that grid hardening projects include undergrounding (p. 340). The term is also specified by Energy Safety in Area for Continuous Improvement (ACI) PG&E-201-01, Continuation of Grid Hardening Asset Studies, as PG&E uses the term in its response to that ACI. a. While grid hardening and system hardening are basically synonymous, the key distinction among the three terms PG&E uses in the WMP is that Resilience Mitigation refers to a broader category of mitigations than just grid hardening or system hardening.	Edde Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/outage-preparedness-and-safety/outage-preparedness-and-safety/2025-2028-SPD_004-01	0	No	8	Grid Design, Operations, and Maintenance	8

214	TURN	004	TURN_004	R(x)	Yes	TURN_004_Q06	Regarding Table 8.2.1.4 on page 195: a. Please provide this table in Excel with supporting calculations. b. Please add the following information to the Excel table and include all data, calculations, and assumptions: i. Annual and cumulative number of overhead miles in each year from 2023 (referred to 2026 forecast) for each activity separately (covered conductor and underground). ii. Annual and cumulative costs in each year from 2023 to 2026 (including forecast years) for each activity separately (covered conductor and underground). Please provide supporting calculations. iii. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2026 (including forecast years). iv. Annual and cumulative costs to implement EPSS and PSPS in each year (separately) from 2023-2026 (including forecast years). If not previously included.	A Milella Fall-Fly 5/1/2025 5/19/2025 5/19/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-turn_004.xlsx	1	No	8	Grid Design, Operations, and Maintenance	8.2.1
214	TURN	004	TURN_004	R(x)	Yes	TURN_004_Q02	Regarding Table 8.2.1.4 on page 195: a. Please provide this table in Excel with supporting calculations. b. Please add the following information to the Excel table and include all data, calculations, and assumptions: i. Annual and cumulative number of overhead miles in each year from 2023 (referred to 2026 forecast) for each activity separately (covered conductor and underground). Please provide supporting calculations. ii. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2026 (including forecast years). iii. Annual and cumulative costs to implement EPSS and PSPS in each year (separately) from 2023-2026 (including forecast years). If not previously included.	A Milella Fall-Fly 5/1/2025 5/19/2025 5/19/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-turn_004.xlsx	1	No	8	Grid Design, Operations, and Maintenance	8.2.1
215	TURN	004	TURN_004	9	No	TURN_004_Q01	Regarding Table 9-5.2 on page 321, please provide these figures on an annual basis, from December 31, 2015, through 2023. At a minimum, please provide the 10+ figures.	A Milella Fall-Fly 5/1/2025 5/6/2025 5/6/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-turn_004.xlsx	0	No	8	Grid Design, Operations, and Maintenance	8.5
216	TURN	004	TURN_004	10	No	TURN_004_Q10	Please provide a list of mitigations PGE has examined for how to reduce the "consequence" (outages and outage time) of PSPS and EPSS. Please include the following: a. Mitigation effectiveness of each mitigation, including all stakeholders and its explanation. b. Unit cost of other relevant metrics. c. All supporting data and worksheets.	A Milella Fall-Fly 5/1/2025 5/19/2025 5/19/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-turn_004.xlsx	2	No	7	Public Safety Power Shutoff	7
217	OEBIS	008	OEBIS_008	1	No	OEBIS_008_Q1	Regarding Table 8.2.1.4 on page 195: a. Please provide this table in Excel with supporting calculations. b. Please add the following information to the Excel table and include all data, calculations, and assumptions: i. Annual and cumulative number of overhead miles in each year from 2023 (referred to 2026 forecast) for each activity separately (covered conductor and underground). ii. Annual and cumulative costs in each year from 2023 to 2026 (including forecast years) for each activity separately (covered conductor and underground). Please provide supporting calculations. iii. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2026 (including forecast years). iv. Annual and cumulative costs to implement EPSS and PSPS in each year (separately) from 2023-2026 (including forecast years). If not previously included.	Nathan Fron 5/2/2025 5/7/2025 5/7/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-oebis_008.xlsx	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
218	OEBIS	008	OEBIS_008	2	No	OEBIS_008_Q2	Regarding PGE's Response to CEIS-P-WMP_2025-PG&E-004 Question 04: a. In part (i) of PGE's response to data request CEIS-P-WMP_2025-PG&E-004 question 04, PGE identifies four critical protection areas as being "privately owned lines." b. PGE states within the data request response that two of the lines were identified as not being privately owned in order to reduce risk along these lines. c. Please provide a description of PGE's procedures for working with the owners to decrease risk along these lines. d. In part (ii) of PGE's response to data request CEIS-P-WMP_2025-PG&E-004 question 04, PGE identifies many of the critical segments to not be included based on not being a "part of selection criteria" as work is "based on density of risk per mile" and "not total risk on the critical segment." e. Please provide an updated version of Table 8.2.1.4 based on risk density reported to total risk score. This must also include the total mileage for each critical segment, and mileage.	Nathan Fron 5/2/2025 5/7/2025 5/7/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-oebis_008.xlsx	2	No	6	Wildfire Mitigation Strategy Development	6.2.1.3
218	OEBIS	008	OEBIS_008	2(x)	Yes	OEBIS_008_Q2(x)	Regarding PGE's Response to CEIS-P-WMP_2025-PG&E-004 Question 04: a. In part (i) of PGE's response to data request CEIS-P-WMP_2025-PG&E-004 question 04, PGE identifies four critical protection areas as being "privately owned lines." b. PGE states within the data request response that two of the lines were identified as not being privately owned in order to reduce risk along these lines. c. Please provide a description of PGE's procedures for working with the owners to decrease risk along these lines. d. In part (ii) of PGE's response to data request CEIS-P-WMP_2025-PG&E-004 question 04, PGE identifies many of the critical segments to not be included based on not being a "part of selection criteria" as work is "based on density of risk per mile" and "not total risk on the critical segment." e. Please provide an updated version of Table 8.2.1.4 based on risk density reported to total risk score. This must also include the total mileage for each critical segment, and mileage.	Nathan Fron 5/2/2025 5/16/2025 5/16/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-oebis_008.xlsx	1	No	6	Wildfire Mitigation Strategy Development	6.2.1.3
219	MORA	006	MORA_006	1	No	MORA_006_Q1	Please provide all information available on the following risk events, including detailed cause information, lessons learned, the type of conductor or equipment involved in particular whether the segment had been converted to covered ignition. a. On 8/3/2024, at 6:14 AM, an ignition was reported related to PG&E infrastructure at Mileage 16.002719 (longitude -121.384754). b. On 11/8/2024, at 11:42 AM, a post PSPS inspection revealed a damage event at milepost 37.103527 and longitude -121.960179.	Joseph Mitchell 5/5/2025 5/9/2025 5/9/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-mora_006.xlsx	2	No	5	Risk Methodology & Assessment	5.2.2.2
220	MORA	006	MORA_006	2	No	MORA_006_Q2	With reference to PGE's Wildfire Consequence model of documentation, please provide the following information: a. As documented in Section 4.1, the covariates used in the suppression model, which predicts the survival fraction of structures involved in a fire, are Terrain Difficulty Index (TDI), fuel moisture, and wind speed. Among these, only TDI relates to "structure". b. As documented in Section 4.2, the covariates used in the egress model are Access and Functional Needs (AFN) and wind speed.	Joseph Mitchell 5/5/2025 5/12/2025 5/12/2025 https://www.pge.com/assets/pge/docs/outreach-and-safety/outreach-pge/docs/outreach-and-safety/2025-mora_006.xlsx	0	No	5	Risk Methodology & Assessment	5.4

229	TURN	005	TURN_005	2	No	TURN_005_02	Regarding TURN-3 PG&E attachment "WMP-Discovery2026-2028_DR_TURN_003-Q001A001" a. Please provide a definition of each column header. b. What column represents the total risk score of each circuit segment? c. Does PG&E rank circuit segments for prioritization by highest risk by column "V"? -- "On-Wildfire Risk per PCHN Mile" -- or something else? Please explain, including what column or calculation is used to rank circuit segments from highest to lowest risk for PG&E's prioritization of "high risk" miles. d. Does multiplying column "V" by "PCHN Mile" (column A1) equal the total risk score for each circuit segment? Please explain.	4. Please see the table below for the definition of each column header. a. The circuit segment total risk score is not shown in any column in this data set. It was not required for the original Cal ADAMS data request. b. PG&E ranks circuit segments by the System Hardening composite wildfire risk per primary overhead mile, which is reported as identical values in both columns (i) and (j). PG&E orders the wildfire risk per primary overhead mile values from largest to smallest to establish the relative risk rank values. c. WMP-Discovery 2026-2028_DR_TURN_003-Q002 Page 3 d. Yes, multiplying column (i) or (j), the System Hardening wildfire risk per primary overhead mile, times the primary overhead mile length provided in column A1, will generally produce the total wildfire risk sum for a circuit segment. However, there are six circuit segments for which there is no primary overhead mileage and hence the original risk sums will not be recovered. These six segments have only underground primary conductors and a limited amount of secondary overhead conductor miles. Their risk sums are essentially zero.	A Milella Fall-Fly	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q002.pdf	0	No	5	Risk Methodology & Assessment	5.4
230	TURN	005	TURN_005	3	No	TURN_005_03	Regarding the decision tree in Figure PG&E 8.2.1.2 on page 184: a. On the first row, third box, is the US 90-CH-NE "case" CH-NE? Include EPSS? Please explain. b. In the first row, why is PPSF and EPSS not evaluated? Please explain. c. Regarding the second row "Begin Hybrid Analysis," what happens if an answer to one of the questions is a yellow box (e.g. "Are there areas identified with high fire source potential," "Is not")? Please explain. d. Regarding the second row "Begin Hybrid Analysis," what happens if the answer to all three questions is a yellow box (e.g. "Are there areas identified with high fire source potential," "Is not")? Please explain. e. Regarding a "hybrid" project, is it possible for such a project to contain 99% undergrounding and 1% overhead hardening? Please explain.	4. Yes, the comparison is to CH hardening + EPSS. b. The assumed savings associated with PPSF and EPSS are included as appropriate in the benefit associated with the economic comparison between the US-90 CH alternatives. c. If the answer to one of the questions in a yellow box is "no," then CH hardening + EPSS is assumed to be an acceptable alternative for mitigation for these areas for that reason. d. If the answer to all three questions in a yellow box is "no," then CH hardening + EPSS would be the selected mitigation, and undergrounding would not be proposed/included in the scope. e. Yes, it is possible, although unlikely, that a "hybrid" project could be 99% undergrounding and 1% overhead hardening. In projects where undergrounding is WMP-Discovery 2026-2028_DR_TURN_003-Q003 Page 2 the primary solution, there are often specific construction limitations that make it infeasible to underground the entire location. Examples include locations where there are water crossings or water crossings prevent underground installation. In these cases, alternative solutions, such as bridge attachments or bolting, may not be viable either.	A Milella Fall-Fly	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q003.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
231	OEB	009	OEB_009	1(a)	Yes	OEB_009_Q1(a)	Regarding 2026 Risk Reduction for Undergrounding and Covered Conductor Table 5-1 of PG&E's 2026-2028 Base WMP includes risk reduction percentages for 2026 based on its current risk models WDRM v1 and WTRM v2. Given that the year 2026 is part of its current General Rate Case Decision, Energy Safety currently compares its risk reduction as calculated by WDRM v1 and WTRM v1. a. Provide the percentage risk reductions planned for 2026 for the following activities based on WDRM v1 and WTRM v1: i. System Hardening – Undergrounding (CH-04) ii. System Hardening – Transmission Short Splices (CH-06) iii. System Hardening – Transmission Conductor Segment Replacement (CH-11) iv. Overhead Hardening and Line Removal – Distribution (CH-12)	Per request from the Office of Energy Infrastructure Safety, we are re-producing the attachments provided with "WMP-Discovery2026-2028_DR_TURN_003-Q001.pdf" for this request. Please note, "WMP-Discovery2026-2028_DR_TURN_003-Q001A002CONF.xlsx" is now being provided as "WMP-Discovery2026-2028_DR_OEB_009-Q001Supp2A002CONF.xlsx" and "WMP-Discovery2026-2028_DR_TURN_003-Q001A002CONF.xlsx" is now being produced as "WMP-Discovery2026-2028_DR_OEB_009-Q001Supp2A002CONF.xlsx." No changes have been made to these files.	Nathan Poon	5/9/2025	6/6/2025	6/6/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q001.pdf	2	No	5	Risk Methodology & Assessment	5.4
231	OEB	009	OEB_009	1(a)	Yes	OEB_009_Q1(a)	Regarding 2026 Risk Reduction for Undergrounding and Covered Conductor Table 5-1 of PG&E's 2026-2028 Base WMP includes risk reduction percentages for 2026 based on its current risk models WDRM v1 and WTRM v2. Given that the year 2026 is part of its current General Rate Case Decision, Energy Safety currently compares its risk reduction as calculated by WDRM v1 and WTRM v1. a. Provide the percentage risk reductions planned for 2026 for the following activities based on WDRM v1 and WTRM v1: i. System Hardening – Undergrounding (CH-04) ii. System Hardening – Transmission Short Splices (CH-06) iii. System Hardening – Transmission Conductor Segment Replacement (CH-11) iv. Overhead Hardening and Line Removal – Distribution (CH-12)	4. The v1 risk reduction and risk rank values for the 2026 System Hardening – Undergrounding (CH-04) worksheet has been provided in response to data request WMP-Discovery2026-2028_DR_TURN_003-Q001 and associated attachment "WMP-Discovery2026-2028_DR_TURN_003-Q001A002CONF.xlsx." Please reference worksheet "CH-04 Worksheet 2026-28" (filter column V (End Year) for 2026, and see column P (Risk Rank (V2)) and column Q (Etc. Wildfire Risk Reduction (V3)). The response and associated attachment have been attached to this response as "WMP-Discovery2026-2028_DR_OEB_009-Q001A002CONF.xlsx." 5. Please note that transmission short splices are not part of the General Rate Case Decision. Cost recovery for short splices occurs through the FERC Transmission Cost Filing. PG&E will implement this response to provide this information by May 23, 2025. 6. PG&E will implement this response to provide this information by May 23, 2025. 7. The v1 risk reduction and risk rank values for the 2026 Overhead Hardening and Line Removal – Distribution (CH-12) worksheet has been provided in response to data request WMP-Discovery2026-2028_DR_TURN_003-Q001 and associated attachment "WMP-Discovery2026-2028_DR_TURN_003-Q001A002CONF.xlsx." Please reference worksheet "CH-12 Worksheet 2026-28" (filter column V (End Year) for 2026, and see column P (Risk Rank (V2)) and column Q (Etc. Wildfire Risk Reduction (V3)). The response and associated attachment have been attached to this response as "WMP-Discovery2026-2028_DR_OEB_009-Q001A002CONF.xlsx."	Nathan Poon	5/9/2025	5/23/2025	5/23/2025	https://www.pge.com/assets/pge/docs/outages-and-safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q001A002CONF.xlsx	0	No	5	Risk Methodology & Assessment	5.4
231	OEB	009	OEB_009	1	No	OEB_009_Q1	Regarding 2026 Risk Reduction for Undergrounding and Covered Conductor Table 5-1 of PG&E's 2026-2028 Base WMP includes risk reduction percentages for 2026 based on its current risk models WDRM v1 and WTRM v2. Given that the year 2026 is part of its current General Rate Case Decision, Energy Safety currently compares its risk reduction as calculated by WDRM v1 and WTRM v1. a. Provide the percentage risk reductions planned for 2026 for the following activities based on WDRM v1 and WTRM v1: i. System Hardening – Undergrounding (CH-04) ii. System Hardening – Transmission Short Splices (CH-06) iii. System Hardening – Transmission Conductor Segment Replacement (CH-11) iv. Overhead Hardening and Line Removal – Distribution (CH-12)	4. The v1 risk reduction and risk rank values for the 2026 System Hardening – Undergrounding (CH-04) worksheet has been provided in response to data request WMP-Discovery2026-2028_DR_TURN_003-Q001 and associated attachment "WMP-Discovery2026-2028_DR_TURN_003-Q001A002CONF.xlsx." Please reference worksheet "CH-04 Worksheet 2026-28" (filter column V (End Year) for 2026, and see column P (Risk Rank (V2)) and column Q (Etc. Wildfire Risk Reduction (V3)). The response and associated attachment have been attached to this response as "WMP-Discovery2026-2028_DR_OEB_009-Q001A002CONF.xlsx."	Nathan Poon	5/9/2025	5/16/2025	5/16/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q001.pdf	1	No	5	Risk Methodology & Assessment	5.4
232	GPI	001	GPI_001	1	No	GPI_001_Q1	(1.1) Please provide documentation detailing the MAVT applied in the WFC model, including the method for how "non-linear" risk adjustment increases the consequences of more extreme events," as referenced in the wildfire-consequence-model-documentation-v4.pdf (p. 8). (1.2) In regard to wildfire-consequence-model-documentation-v4.pdf, please clarify whether the reported "MAVT" values (e.g. at p. 18, Table 8) and "consequence values using the MAVT function (e.g. at p. 20), are reported in standard units (e.g. 1 = 1 person killed) or cost normalized units at the rate of \$1M per risk-adjusted 2025 dollar per unit of MAVT" (e.g. 3.125 = 1 person injured \$3.125M).	4. For the requested information, please refer to PG&E's 2024 RAMP Report (https://www.cpuc.ca.gov/-/media/cpuc-websites/divisions/safety-and-cybersecurity/Reports/2024-RAMP-Application-for-CPUC-Staff-Chapter-2-Section-C-Cost-Benefit-Approach-starting-from-page-2-3-through-2-27-MAVT-in-WFC-v4-used-within-the-wildfire-consequence-model-documentation-v4.pdf) and the wildfire-consequence-model-documentation-v4.pdf (p. 8). 5. MAVT values are in millions risk-adjusted 2025 dollars.	Zoe Harold	5/9/2025	5/14/2025	5/14/2025	https://www.pge.com/assets/pge/docs/outages_and_safety/wildfire-preparedness-and-support/2026-2028-DR_TURN_003-Q001.pdf	0	No	5	Risk Methodology & Assessment	5.4

Page 33

Pre Discovery 01	TURN	001	TURN_001	1(a)	Yes	TURN_001_Q1(a)	Please provide a contemporaneous copy of the pre-submission, and all supporting materials, submitted to the Office of Energy Infrastructure Safety on March 7, 2025.	Pursuant to PG&E's agreement with TURN and the Non-Disclosure Agreement executed on May 19, 2025, and notwithstanding the timing of disclosure, please submit "WMP-Discovery2025-2028_DR_TURN_001-Q001Supp1A001CONF.zip" for our Review Mitigation Plan (WMP) pre-submission that was provided to Energy Safety. Please note that this is not our final WMP submission and may be subject to revisions. Please note that our final WMP submission may be subject to revision before the final WMP submission and may be subject to revision before the final WMP submission is submitted on April 4, 2025. Please note that we have designated this entire submission as confidential to align with Energy Safety's pre-submission process and guidelines which stipulate that the pre-submission documents are only for Energy Safety's use in performing a pre-submission check and not for performing a substantive review of WMP content.	A Mirella Fall-Fry	2/24/2025	3/7/2025	3/7/2025	https://www.pge.com/customers/energy-safety/turn-001-q001-suppl-a001-conf.zip	1	No	NA	NA	NA	NA
Pre Discovery 02	CALPA	001	CALPA_001	1	No	CALPA_001_Q01	Please provide a copy of each WMP-related document, submission, or report you submit to the Office of Energy Infrastructure Safety. Energy Safety in 2024 has no interest in your 2025-2028 WMP or WMP quarterly reports, unless the document is publicly available through Energy Safety's website. This request is limited to materials, data files, geodatabases, and documents that 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). Provide each document 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 data request, please provide within 10 business days from the issuance of this data request.)	In addition to all general objections, PG&E specifically objects to this request on the grounds that it is unduly burdensome. PG&E further objects to this request as the information requested is vague, antiquated, and overbroad. Lastly, PG&E objects to this request on the grounds that it seeks to impose a continuing response obligation on the responding party. Continuing discovery obligations are not permitted under California law. (See, e.g., Exxon Mobil Corp., 124 Cal.App.4th 1315, 1328 (2006); Code Civ. Proc. § 2025.003). Notwithstanding and without waiving these objections, PG&E responds as follows: We will do our best to provide the requested information within the requested timeframe, 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 those instances, we will provide the requested information as soon as it is reasonably possible. Additionally, with the exception of confidential and spatial data, please note that we post our WMP-related submissions on our website, www.pge.com/willselfinfrastructure, on the same business day that the documents are provided to Energy Safety. WMP-Discovery2025-2028_DR_CalAdvocates_001-Q001 Page 2. Lastly, PG&E objects to the portion of the request that instructs the following: "If you have submitted a document to Energy Safety prior to this data request, please provide within 10 business days from the issuance of this data request." This request is vague, antiquated, overbroad, and unduly burdensome. This request is not limited in time or scope and requests every single document provided by PG&E to Energy Safety.	Holly Wetman	3/5/2025	3/10/2025	3/10/2025	https://www.pge.com/customers/energy-safety/calpa-001-q001	0	No	NA	NA	NA	NA
Pre Discovery 03	CALPA	001	CALPA_001	2	No	CALPA_001_Q02	Please provide a copy of your WMP pre-submission within three business days of its submission to Energy Safety.	Please see "WMP-Discovery2025-2028_DR_CalAdvocates_001-Q001CONF.zip" for our Review Mitigation Plan (WMP) pre-submission to Energy Safety. Please note, that this is not our final WMP submission and may be subject to revisions before the final WMP submission is submitted on April 4, 2025. Please note, we have designated this entire submission as confidential to align with Energy Safety's pre-submission process and guidelines which stipulate that the pre-submission documents are not to be made public.	Holly Wetman	3/5/2025	3/10/2025	3/10/2025	https://www.pge.com/customers/energy-safety/calpa-001-q001	1	No	NA	NA	NA	NA
Pre Discovery 04	MORA	001	MORA_001	1	No	MORA_001_Q01	Please provide for Asset Point data for Canem, Flow, Support Structure, and Weather Station.	In response to this request, PG&E is providing Camera and Weather Station data, as delivered in our 2024 Quarterly CEIS GIS Data Guidelines Submissions. PG&E is also providing non-confidential data from the Support Structure feature class. PG&E is not providing data for the Flow feature class as this data is confidential critical information (CECI). Please see attachment "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	1	No	NA	GIS	NA	NA
Pre Discovery 05	MORA	001	MORA_001	2	No	MORA_001_Q02	Please provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	In response to this request, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line Feature Classes, as delivered in our 2024 CEIS GIS Data Guidelines Submissions. Please see "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request. PG&E is not providing the Transmission Line feature class because it is confidential CECI. PG&E refers MORA to review externally available datasets. Specifically, the California Energy Commission's (CEC) "California Electric Transmission Lines" dataset.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
Pre Discovery 06	MORA	001	MORA_001	3	No	MORA_001_Q03	Provide PPSI Event data. Include Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Provide for PPSI Event Asset Damage data. Data should include time, location.	In response to this request, PG&E is providing non-confidential data for the PPSI Event Line, PPSI Event Log, PPSI Event Polygon, PPSI Event Conductor Damage Detail, PPSI Event Damage Point, and PPSI Event Support Structure. Please see "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request. PG&E is not providing the PPSI Event Asset Damage data because it is confidential CECI. PG&E refers MORA to review externally available datasets. Specifically, the California Energy Commission's (CEC) "California Electric Transmission Lines" dataset.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
Pre Discovery 07	MORA	001	MORA_001	4	No	MORA_001_Q04	Provide Risk Event Point data, including Wire Down, Ignition, Transmission Upstream Outage (as classified non-confidential), Distribution Upstream Outage data, Distribution Vegetation Caused Upstream Outage, Risk Event Asset Log Attributes should include location, time, and cause information.	In response to this request, PG&E is providing non-confidential data for the Wire Down, Ignition, and Upstream Outage Feature Classes, as delivered in our 2024 CEIS GIS Data Guidelines Submissions. Please see "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request. PG&E is not providing the Distribution Upstream Outage, Distribution Vegetation Caused Upstream Outage, and Risk Event Asset Log feature classes, but other consolidated these previous outage feature classes into a single Upstream Outage feature class. PG&E adopts and reports out against the required Data Guidelines as required by Energy Safety. Please note, we have redacted the requested cause data in the referenced attachment.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
Pre Discovery 08	MORA	001	MORA_001	5	No	MORA_001_Q05	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested at this time.	In response to this request, PG&E is providing non-confidential data for the Grid Hardening Point and Grid Hardening Line feature classes, as delivered in our 2024 CEIS GIS Data Guidelines Submissions. Please see "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request. PG&E is not providing the Hardening Log feature class because it is confidential CECI. PG&E refers MORA to review externally available datasets. Specifically, the California Energy Commission's (CEC) "California Electric Transmission Lines" dataset.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
Pre Discovery 09	MORA	001	MORA_001	6	No	MORA_001_Q06	Under Other Requested Data, please provide Red Flag Warning Data polygon data including date and duration.	In response to this request, PG&E is providing the Red Flag Warning Data polygon data, as delivered in our 2024 CEIS GIS Data Guidelines Submissions. Please see "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.zip" for the data provided in response to this data request. PG&E is not providing the Red Flag Warning Data feature class because it is confidential CECI. PG&E refers MORA to review externally available datasets. Specifically, the California Energy Commission's (CEC) "California Electric Transmission Lines" dataset.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
Pre Discovery 10	MORA	001	MORA_001	7	No	MORA_001_Q07	Please provide a layer indicating calculated cross-level risk using the methodology presented in the WMP. If independent probability and consequence layers exist, please provide these independently as well.	The method described in our WMP to aggregate model results is conducted to produce a circuit segment level risk value, but it is not used to produce a circuit level risk value. However, the conceptual representation of circuit segments that would be provided in response to this data request includes the identification of critical energy infrastructure information (CEI), which we are required by law to maintain as confidential and cannot produce without the requesting party's agreement to protect the information through a non-disclosure agreement. In an effort to reach a middle ground on this issue, in previous years, in response to this request, we provided the requesting party with risk information at the circuit segment level in Excel format that does not include geospatial information. Please see attachment "WMP-Discovery2025-2028_DR_MORA_001-Q001Asset1.xlsx" for that same information as it relates to our current WMP.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	1	No	NA	GIS	NA	NA
Pre Discovery 11	MORA	001	MORA_001	8	No	MORA_001_Q08	If PG&E maintains that providing specific data in response to the above requests would cause confidentiality as it is asserted, please provide a justification for each of the asserted violations. Likewise, if requested data cannot be provided for other reasons, please provide justification. Please specify responses to this data request to the extent requested by applicable CEIS process documents.	Each individual response in this request identifies information that is being excluded on confidentiality grounds. If any, and the reason for the exclusion. CEI is defined as follows, in accordance with the definition created by the Federal government: CEI is specific engineering, vulnerability, or detailed design information about proposed or existing critical infrastructure (physical or virtual) that: 1. Relates directly about the production, generation, transmission, or distribution of energy; 2. Could be useful to a person planning an attack on critical infrastructure; 3. Is exempt from mandatory disclosure under the Freedom of Information Act; and 4. Close strategic information beyond the location of the critical infrastructure.1	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/energy-safety/mora-001-q001	0	No	NA	GIS	NA	NA
262	SPD	004	SPD_004	1(a)	Yes	SPD_004_Q1(a)	List the locations in the 2025-2028 Base WMP where PG&E's risk scaling function has been applied in the calculation of a value at risk, consequence, risk reduction, or CRI. a. If the values are in a figure, list the Figure number. b. If the values are in a table, list the Table Number. c. If the values are in the text of the 2025-2028 Base WMP, provide the sentence and the page number. d. SPD is aware that PG&E used a risk scaling function in its RAMP A24-05-008. For each of a-c, describe if the risk scaling function used is the same as that described in the RAMP. If it is different, describe how the risk scaling function is different.	Upon review, we determined that Table 8-1 included in our prior response to subpart (b), below, does not utilize a risk scaling function.	Edde Schmitt	4/30/2025	5/30/2025	6/13/2025	https://www.pge.com/customers/energy-safety/spd-004-q001	0	No	5	Risk Methodology & Assessment	5	
263	SPD	004	SPD_004	2(a)	Yes	SPD_004_Q2(a)	In an Administrative Law Judge Ruling dated April 22, 2025 in the PG&E 2024 RAMP Proceeding A-24-05-008, PG&E was directed to conduct a separate risk assessment using a risk-neutral, linear scaling function in preparation for PG&E's 2027 GRC Risk Case. For each of the locations listed in a-c, provide a new calculation without applying PG&E's risk scaling function. a. If the values are in a figure, recalculate the figure without the scaling function applied to the calculation that generated the value(s) in the figure. b. If the values are in a table, recalculate the table without the scaling function applied to the calculation that generated the value(s) in the table. c. If the values are in the text of the 2025-2028 Base WMP, provide the sentence with the new value that was recalculated without the scaling function being applied to the calculation.	Please see below for risk-neutral versions of the figures, tables, and text values identified in PG&E's response to Question No. 1, below. The following figures are reproduced without a risk scaling function on the April 2025 update model for the 2028 Baseline. 1. Figure 8-1: Risk-Neutral Circuit Segment Level Risk. 2. Figure 8-2: Risk-Neutral Circuit Segment Level Risk. 3. Figure 8-3: Risk-Neutral Circuit Segment Level Risk. 4. Figure 8-4: Risk-Neutral Circuit Segment Level Risk. 5. Figure 8-5: Risk-Neutral Circuit Segment Level Risk. 6. Figure 8-6: Risk-Neutral Circuit Segment Level Risk. 7. Figure 8-7: Risk-Neutral Circuit Segment Level Risk. 8. Figure 8-8: Risk-Neutral Circuit Segment Level Risk. 9. Figure 8-9: Risk-Neutral Circuit Segment Level Risk. 10. Figure 8-10: Risk-Neutral Circuit Segment Level Risk. 11. Figure 8-11: Risk-Neutral Circuit Segment Level Risk. 12. Figure 8-12: Risk-Neutral Circuit Segment Level Risk. 13. 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Page 38

271	SFO	008	SFO_008	3	No	SFO_008_03	Revises the "Trianche-Outcome_Analysis" spreadsheet from BMA-RMCS-14 PG&E 2024 RAMP Risk Values, ICECalcA by Event (add DUNGD) also for each of the four approaches to electric reliability presented in the PG&E 2027GRIC Risk Values" spreadsheet: a. ICE 1.0 aggregated (Column E) b. ICE 1.0 disaggregated (Column F) c. ICE 2.0 aggregated (Column G) d. ICE 2.0 disaggregated (Column H)	Edwin Schwelt	06/23/25	7/3/2025	7/3/2025	https://www.pge.com/assets/geotechnologies-and-safety/usage-preparedness-and-support/2026-SFO_008.sp	1	No		
272	SFO	008	SFO_008	4	No	SFO_008_04	In a supplemental response to SFO-PGE-WMP0206-004 Question 4, PG&E stated that it has responded to the data request by "revising the ICE 2.0 disaggregated results (B) (B2C) for reliability, B2C (1) (B) for non-reliability" in its Compliance Filing in its 2027 GRIC. PG&E states "PG&E continues to stand by our 2027 GRIC risk analysis using a system-wide, aggregated electric reliability value, developed based on the best judgment and analysis available at the time of GRIC filing." a. Confirm that by aggregating electric reliability PG&E is referring to the "ICE 1.0 aggregated" values that were submitted with both the WMP and the 2027 GRIC Application. b. In light of considering using the ICE 2.0 calculator in a future ELP submission to Energy Safety? Explain. c. If PG&E is considering using the ICE 2.0 calculator in a future ELP submission to Energy Safety? Explain. d. If the answer to 4a, b, yes and 4b, c, no, explain why PG&E stands by its "aggregated electric reliability value" using ICE 1.0 in its 2027 GRIC filing. e. If PG&E continued that standing behind one value in the 2027 GRIC filing but standing behind another value in a future ELP, explain at least why PG&E's statements would be difficult to understand. In PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004, PG&E stated the following: With regard to the "Miss of" fields provided with this response, please note that, consistent with PG&E prior responses, PG&E is providing units, rather than rates. Further, please note that there are units associated with circuit segments that are not present in the requested list of circuit segments, therefore that data is not included in this response. a. Explain why circuit segments that include units of a mitigation presented in the 2026-2028 Base WMP are not included in the requested list of circuit segments. b. Provide an updated version of WMP-Discovery0206-2028_DR_SFO_004-0005app03A04001 also or any subsequent version of this dataset that includes all of the circuit segments referenced in Question 5a. PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 included the dataset labeled WMP-Discovery0206-2028_DR_SFO_004-0005app03A04001 also in the "Primary" spreadsheet under the WORM v4 portion of the dataset all of the "Post-Mitigated" fields (Columns AS-AF) have now been given NA or "See written response" values. a. Explain why PG&E has included an NA for some circuit segments. b. Explain why PG&E has included "See written response" for some circuit segments. c. Explain why PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 did not inform SFO that it would fill in these fields with NA or "See written response". d. Explain why PG&E is able to present Wildlife Risk Reduction for Underpinning and Overhead Hauling according to WORM v4, v3, v2 and v1 in response to Question 1 of SFO-PGE-WMP0206-004, but PG&E is unable to provide the "Post-Mitigated" fields from Question 5 of SFO-PGE-WMP0206-004. e. PG&E's original response to Question 5 of SFO-PGE-WMP0206-004 stated that WORM v4 "cannot be used to quantify mitigation effectiveness". Explain how PG&E used WORM v4, v3, v2 and v1 to calculate Wildlife Risk Reduction in response to Question 1 of SFO-PGE-WMP0206-004. f. Provide the datasets and worksheets used to calculate the fields "Est. Wildlife Risk Reduction (WY) "Est. Wildlife Risk Reduction (WY) and "Est. Wildlife Risk Reduction (WY)" in the worksheets that WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also and WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also. Include all excel formulas within the dataset and worksheets to ensure SFO can follow how PG&E arrived at the final calculation for these three fields for each circuit segment. g. In response to Question 1g of SFO-PGE-WMP0206-004 about the "Post-Mitigated" fields, PG&E stated the following: "PG&E believes we can provide the requested values through use of the preliminary version of the WORM tool, dependent on completion of mapping of mitigation activities to the plan set of circuit segments." Explain when PG&E will provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool. h. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain why it cannot. i. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain when PG&E made this determination. j. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, then as was already requested in Question 1 g.i. of SFO-PGE-WMP0206-004-006 describe a solution for providing SFO with the "Post-Mitigated" fields for each circuit segment. In PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 it included a table of forecasted 2026-2028 costs for system hardening mitigations. PG&E also stated that comparing the reported expenditures and the reported rates will not yield an accurate unit cost because a project's costs may be spread across multiple years. a. Explain how PG&E estimated the forecasted 2026-2028 costs for the three system hardening mitigations. b. Provide all worksheets PG&E used to estimate the forecasted 2026-2028 costs for the three system hardening mitigations. c. Provide the unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. d. Provide all worksheets that PG&E uses to generate a unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. e. Provide all historical datasets used to estimate the unit cost of each of the three system hardening mitigations. f. In its response to Question 4a of SFO-PGE-WMP0206-004, PG&E provided SFO with a list of cost adders and constraints and their associated amounts. In response to Question 4b, PG&E stated: "PG&E's project expenditures table established these estimated values based on a review of relevant project costs, which are captured and maintained upon project completion." Provide the most recent datasets (if historical data that PG&E used to generate the values for each cost adder or constraint listed in WMP-Discovery0206-2028_DR_SFO_004-0005AUNDGCONF also. g. All formulas should be kept within the dataset so that staff can trace how PG&E arrived at the final values for each cost adder (C, 0000000). In response to Question 23 of SFO-PGE-WMP0206-004, PG&E stated that the Decision-Trees in Figures PG&E-8.2.1, PG&E-8.2.1.2, and PG&E-8.2.1.3 in the 2026-2028 Base WMP are in fact one single decision-tree connected together and that these and the results from the decision tree (1) do not implement system hardening; (2) implement a 100% overhead hardening solution; (3) implement a 100% underpinning solution; (4) implement a hybrid hardening solution where portions of a line are underpinned and other portions are overhead hardened; and (5) implement a line removal with remote grid solution. a. Provide an example circuit segment from each of the five results. For each of the five circuit segments, provide a step-by-step explanation of each decision that PG&E needed to make and each analysis PG&E needed to conduct in order to arrive at the final result for each circuit segment. b. At each step in the explanation of the five circuit segments, provide the level of accuracy of the cost estimate at each step in the process. PG&E should reference the Association for the Advancement of Circuit Engineering (AAACE) scale for understanding the accuracy of the cost estimate at a given point within the decision tree. c. Explain PG&E's rationale for altering the decision-tree to allow the removal with remote grid solution. d. For result 8d, explain what is meant by "portions of a line". e. Explain how the "portions of a line" are determined by PG&E. f. Is there another decision tree for determining whether the line removal with remote grid solution would be an economical solution? g. If yes, provide that decision tree and a narrative of how it operates. h. If not, explain why not and explain how PG&E determines that the removal with remote grid solution is an economical solution. The attachment WMP-Discovery0206-2028_DR_SFO_008-0003A04001 also includes the requested analysis in the "Trianche-Outcome_Analysis" spreadsheet for each of the four approaches to electric reliability whose results were also identified in "PG&E 2027GRIC Risk Values" attachment in the June 20 filing. The attachment WMP-Discovery0206-2028_DR_SFO_008-0003A04001 also includes the requested analysis in the "Trianche-Outcome_Analysis" spreadsheet for each of the four approaches to electric reliability whose results are presented in PG&E 2027GRIC Risk Values" attachment in the June 20 filing. Specifically: a. ICE 1.0 aggregated is in Column F of "Trianche-Outcome_Analysis (ICE1)" tab b. ICE 1.0 disaggregated is in Column A of "Trianche-Outcome_Analysis (ICE1)" tab c. ICE 2.0 aggregated is in Column F of "Trianche-Outcome_Analysis (ICE2)" tab d. ICE 2.0 disaggregated is in Column A of "Trianche-Outcome_Analysis (ICE2)" tab The calculation demonstrates the disaggregated approach used in the analysis presented in June 20 filing. This indicates a third granular determination that the results of the scope of that proceeding. This request would be more appropriately named as non-use discovery or in a different regulatory proceeding. Notwithstanding and without limiting this statement, PG&E responds as follows: a. Yes, "aggregated electric reliability value" refers to the "ICE 1.0 aggregated" values that were submitted with both the WMP and the 2027 GRIC Application. b. PG&E is inclined to use the ICE 2.0 or more recent ICE calculator in update to the WMP filing to benefit from the significant improvement in data and analysis employed by ICE 2.0 compared with ICE 1.0 calculator, and to comply with the Federal Open-Source Energy Framework (FOWEF) in 2023 (FER Order 861). c. PG&E intends to incorporate a disaggregated ICE 2.0 methodology for the 2027 GRIC filing. As indicated in SFO-PGE-SB884-017, CH2C, D001, REM.pdf and ELP, SFO-PGE-SB884-017.pdf, PG&E is in the final stages of developing its Wildlife Benefit Cost Analysis (WBCA) tool — where this methodology will be implemented — and can share more information in July. d. Review the initial mitigation and final RAMP filings. PG&E, in partnership with the CPUC, the other IOUs, and Intervening Parties, has endeavored to consistently and transparently share the data that PG&E used in its 2027 GRIC filing based on available analysis and data that could be reasonably included. Electric reliability analysis is therefore based on ICE 1.0, and not ICE 2.0 that only became available a few weeks prior to the filing deadline. Models, data, and the analysis are always subject to changes based on newly available information, and the CPUC cannot be consistently updated. For example, further updates to ICE 2.0 are expected in 2025. e. ICE 2.0 currently does not consider PG&E and other CA IOUs customer survey data. Thus, when LBR releases updates to ICE 2.0, the values will be different from the results produced here. Regarding the disaggregated approach outlined by the filing, as explained in PG&E's July 20 compliance filing, that approach requires further refinement in the RAMP filing process. The disaggregated approach values represent various issues, including the potential consequences of trading customers differently based on economic status, location, and other factors. For example, another method of performing the analysis assigns decreased priority for reliability improvements for customers who experience repeated outages such as PG&E's AGSCLs, and a lower value of outcomes to low-income customers' livelihoods.	Edwin Schwelt	06/23/25	7/3/2025	7/3/2025	https://www.pge.com/assets/geotechnologies-and-safety/usage-preparedness-and-support/2026-SFO_008.sp	0	No		
273	SFO	008	SFO_008	1	No	SFO_008_01	PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 included the dataset labeled WMP-Discovery0206-2028_DR_SFO_004-0005app03A04001 also in the "Primary" spreadsheet under the WORM v4 portion of the dataset all of the "Post-Mitigated" fields (Columns AS-AF) have now been given NA or "See written response" values. a. Explain why PG&E has included an NA for some circuit segments. b. Explain why PG&E has included "See written response" for some circuit segments. c. Explain why PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 did not inform SFO that it would fill in these fields with NA or "See written response". d. Explain why PG&E is able to present Wildlife Risk Reduction for Underpinning and Overhead Hauling according to WORM v4, v3, v2 and v1 in response to Question 1 of SFO-PGE-WMP0206-004, but PG&E is unable to provide the "Post-Mitigated" fields from Question 5 of SFO-PGE-WMP0206-004. e. PG&E's original response to Question 5 of SFO-PGE-WMP0206-004 stated that WORM v4 "cannot be used to quantify mitigation effectiveness". Explain how PG&E used WORM v4, v3, v2 and v1 to calculate Wildlife Risk Reduction in response to Question 1 of SFO-PGE-WMP0206-004. f. Provide the datasets and worksheets used to calculate the fields "Est. Wildlife Risk Reduction (WY) "Est. Wildlife Risk Reduction (WY) and "Est. Wildlife Risk Reduction (WY)" in the worksheets that WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also and WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also. Include all excel formulas within the dataset and worksheets to ensure SFO can follow how PG&E arrived at the final calculation for these three fields for each circuit segment. g. In response to Question 1g of SFO-PGE-WMP0206-004 about the "Post-Mitigated" fields, PG&E stated the following: "PG&E believes we can provide the requested values through use of the preliminary version of the WORM tool, dependent on completion of mapping of mitigation activities to the plan set of circuit segments." Explain when PG&E will provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool. h. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain why it cannot. i. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain when PG&E made this determination. j. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, then as was already requested in Question 1 g.i. of SFO-PGE-WMP0206-004-006 describe a solution for providing SFO with the "Post-Mitigated" fields for each circuit segment. In PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 it included a table of forecasted 2026-2028 costs for system hardening mitigations. PG&E also stated that comparing the reported expenditures and the reported rates will not yield an accurate unit cost because a project's costs may be spread across multiple years. a. Explain how PG&E estimated the forecasted 2026-2028 costs for the three system hardening mitigations. b. Provide all worksheets PG&E used to estimate the forecasted 2026-2028 costs for the three system hardening mitigations. c. Provide the unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. d. Provide all worksheets that PG&E uses to generate a unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. e. Provide all historical datasets used to estimate the unit cost of each of the three system hardening mitigations. f. In its response to Question 4a of SFO-PGE-WMP0206-004, PG&E provided SFO with a list of cost adders and constraints and their associated amounts. In response to Question 4b, PG&E stated: "PG&E's project expenditures table established these estimated values based on a review of relevant project costs, which are captured and maintained upon project completion." Provide the most recent datasets (if historical data that PG&E used to generate the values for each cost adder or constraint listed in WMP-Discovery0206-2028_DR_SFO_004-0005AUNDGCONF also. g. All formulas should be kept within the dataset so that staff can trace how PG&E arrived at the final values for each cost adder (C, 0000000).	Edwin Schwelt	7/3/2025	7/10/2025			No		Risk Methodology & Assessment	5.4
274	SFO	009	SFO_009	2	No	SFO_009_02	PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 included the dataset labeled WMP-Discovery0206-2028_DR_SFO_004-0005app03A04001 also in the "Primary" spreadsheet under the WORM v4 portion of the dataset all of the "Post-Mitigated" fields (Columns AS-AF) have now been given NA or "See written response" values. a. Explain why PG&E has included an NA for some circuit segments. b. Explain why PG&E has included "See written response" for some circuit segments. c. Explain why PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 did not inform SFO that it would fill in these fields with NA or "See written response". d. Explain why PG&E is able to present Wildlife Risk Reduction for Underpinning and Overhead Hauling according to WORM v4, v3, v2 and v1 in response to Question 1 of SFO-PGE-WMP0206-004, but PG&E is unable to provide the "Post-Mitigated" fields from Question 5 of SFO-PGE-WMP0206-004. e. PG&E's original response to Question 5 of SFO-PGE-WMP0206-004 stated that WORM v4 "cannot be used to quantify mitigation effectiveness". Explain how PG&E used WORM v4, v3, v2 and v1 to calculate Wildlife Risk Reduction in response to Question 1 of SFO-PGE-WMP0206-004. f. Provide the datasets and worksheets used to calculate the fields "Est. Wildlife Risk Reduction (WY) "Est. Wildlife Risk Reduction (WY) and "Est. Wildlife Risk Reduction (WY)" in the worksheets that WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also and WMP-Discovery0206-2028_DR_TURN_003-0001AUNDGCONF also. Include all excel formulas within the dataset and worksheets to ensure SFO can follow how PG&E arrived at the final calculation for these three fields for each circuit segment. g. In response to Question 1g of SFO-PGE-WMP0206-004 about the "Post-Mitigated" fields, PG&E stated the following: "PG&E believes we can provide the requested values through use of the preliminary version of the WORM tool, dependent on completion of mapping of mitigation activities to the plan set of circuit segments." Explain when PG&E will provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool. h. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain why it cannot. i. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, explain when PG&E made this determination. j. If PG&E has determined that it cannot provide SFO with the data for the "Post-Mitigated" fields using a preliminary version of the WORM tool, then as was already requested in Question 1 g.i. of SFO-PGE-WMP0206-004-006 describe a solution for providing SFO with the "Post-Mitigated" fields for each circuit segment. In PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 it included a table of forecasted 2026-2028 costs for system hardening mitigations. PG&E also stated that comparing the reported expenditures and the reported rates will not yield an accurate unit cost because a project's costs may be spread across multiple years. a. Explain how PG&E estimated the forecasted 2026-2028 costs for the three system hardening mitigations. b. Provide all worksheets PG&E used to estimate the forecasted 2026-2028 costs for the three system hardening mitigations. c. Provide the unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. d. Provide all worksheets that PG&E uses to generate a unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. e. Provide all historical datasets used to estimate the unit cost of each of the three system hardening mitigations. f. In its response to Question 4a of SFO-PGE-WMP0206-004, PG&E provided SFO with a list of cost adders and constraints and their associated amounts. In response to Question 4b, PG&E stated: "PG&E's project expenditures table established these estimated values based on a review of relevant project costs, which are captured and maintained upon project completion." Provide the most recent datasets (if historical data that PG&E used to generate the values for each cost adder or constraint listed in WMP-Discovery0206-2028_DR_SFO_004-0005AUNDGCONF also. g. All formulas should be kept within the dataset so that staff can trace how PG&E arrived at the final values for each cost adder (C, 0000000).	Edwin Schwelt	7/3/2025	7/10/2025			No		Risk Methodology & Assessment	5.4
275	SFO	009	SFO_009	3	No	SFO_009_03	In PG&E's third supplemental response to Question 5 of SFO-PGE-WMP0206-004 it included a table of forecasted 2026-2028 costs for system hardening mitigations. PG&E also stated that comparing the reported expenditures and the reported rates will not yield an accurate unit cost because a project's costs may be spread across multiple years. a. Explain how PG&E estimated the forecasted 2026-2028 costs for the three system hardening mitigations. b. Provide all worksheets PG&E used to estimate the forecasted 2026-2028 costs for the three system hardening mitigations. c. Provide the unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. d. Provide all worksheets that PG&E uses to generate a unit cost for each of the three system hardening mitigations that PG&E used to estimate this cost. e. Provide all historical datasets used to estimate the unit cost of each of the three system hardening mitigations. f. In its response to Question 4a of SFO-PGE-WMP0206-004, PG&E provided SFO with a list of cost adders and constraints and their associated amounts. In response to Question 4b, PG&E stated: "PG&E's project expenditures table established these estimated values based on a review of relevant project costs, which are captured and maintained upon project completion." Provide the most recent datasets (if historical data that PG&E used to generate the values for each cost adder or constraint listed in WMP-Discovery0206-2028_DR_SFO_004-0005AUNDGCONF also. g. All formulas should be kept within the dataset so that staff can trace how PG&E arrived at the final values for each cost adder (C, 0000000).	Edwin Schwelt	7/3/2025	7/10/2025			No	5	Risk Methodology & Assessment	5.5.2
276	SFO	009	SFO_009	4	No	SFO_009_04	In response to Question 23 of SFO-PGE-WMP0206-004, PG&E stated that the Decision-Trees in Figures PG&E-8.2.1, PG&E-8.2.1.2, and PG&E-8.2.1.3 in the 2026-2028 Base WMP are in fact one single decision-tree connected together and that these and the results from the decision tree (1) do not implement system hardening; (2) implement a 100% overhead hardening solution; (3) implement a 100% underpinning solution; (4) implement a hybrid hardening solution where portions of a line are underpinned and other portions are overhead hardened; and (5) implement a line removal with remote grid solution. a. Provide an example circuit segment from each of the five results. For each of the five circuit segments, provide a step-by-step explanation of each decision that PG&E needed to make and each analysis PG&E needed to conduct in order to arrive at the final result for each circuit segment. b. At each step in the explanation of the five circuit segments, provide the level of accuracy of the cost estimate at each step in the process. PG&E should reference the Association for the Advancement of Circuit Engineering (AAACE) scale for understanding the accuracy of the cost estimate at a given point within the decision tree. c. Explain PG&E's rationale for altering the decision-tree to allow the removal with remote grid solution. d. For result 8d, explain what is meant by "portions of a line". e. Explain how the "portions of a line" are determined by PG&E. f. Is there another decision tree for determining whether the line removal with remote grid solution would be an economical solution? g. If yes, provide that decision tree and a narrative of how it operates. h. If not, explain why not and explain how PG&E determines that the removal with remote grid solution is an economical solution.	Edwin Schwelt	7/3/2025	7/21/2025			No	5	Risk Methodology & Assessment	5.2.2

277	OEIS	016	OEIS_016	1	OEIS_016_01	Q01. Regarding unplanned distribution system outages from Jan 1, 2023, to Dec 31, 2024 a. Provide a list and description of each distinct cause code attributed to an unplanned distribution outage from Jan 1, 2023, to Dec 31, 2024. b. Provide the average number of distribution poles in PG&E's High, Severe, and Extreme plot maps (as defined in section 3.3 of its 2023-2025 WAMP) from Jan 1, 2023, to Dec 31, 2024. c. Provide the total number of unplanned distribution outages in PG&E's High, Severe, and Extreme plot maps from Jan 1, 2023, to Dec 31, 2024. d. Provide the number of unplanned distribution outages in PG&E's High, Severe, and Extreme plot maps caused by vegetation contact from Jan 1, 2023, to Dec 31, 2024. i. As a subset, provide the number of unplanned distribution outages caused by vegetation contact during major event days. e. Provide the number of unplanned distribution outages in PG&E's High, Severe, and Extreme plot maps caused by equipment failure from Jan 1, 2023, to Dec 31, 2024. f. Provide the number of unplanned distribution outages caused by equipment failure during major event days from Jan 1, 2023, to Dec 31, 2024. g. As an Excel file attachment, provide the data PG&E uses to determine the number of outages in a high-level form.	Nathan Pison	7/8/2025	7/11/2025	8	6.1.3
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