

6	TURN	002	TURN_002	6(x)	Yes	TURN_002_06(x)	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 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. Underground facilities are less likely to be damaged during winter storms by high winds and vegetation falling into lines damaging the facilities or other contact with the lines from their 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, PSPS, and remote grids to reduce the reliability impacts of EPSS and PSPS. b. Please provide any studies or reports in PG&E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening. c. 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. d. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAGI, etc.) of undergrounded vs. overhead hardened facilities. e. Please provide any studies or reports in PG&E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAGI, 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 overhead improvements to service reliability and showed approximately a 60% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 8.2.2 of our 2026-2028 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 conductors and undergrounding. PG&E is not currently aware of any studies or reports in PG&E's possession that compare the reliability of undergrounded vs. overhead hardened facilities. Ultimately, we expect undergrounded lines to be less susceptible to outage-causing conditions associated with exposed overhead lines such as damage and/or vegetation contact from severe winds, animal contact, line sag or wire down. PG&E analyzed the reliability performance on sections of circuits where we performed undergrounding work in 2022 and 2023 to quantify overhead improvements to service reliability and showed approximately a 60% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 8.2.2 of our 2026-2028 WMP. Please note that this analysis did not compare undergrounding to overhead hardening. We are not aware of any studies or reports that we or 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 susceptible to outage-causing conditions associated with exposed overhead lines such as damage and/or vegetation contact from severe winds, animal contact, line sag or wire down.	A Milele Fall-Fry	4/7/2025	4/14/2025	4/14/2025	https://www.pge.com/resources/docs/default-source/turn/turn_002_06(x).pdf https://www.pge.com/resources/docs/default-source/turn/turn_002_06(x).pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
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 conjunction with other hardening mitigations to minimize reliability concerns?	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 self-sufficiently energized upon an outage condition; they are manually operated to isolate and energize the microgrid footprint once the PSPS event has been de-energized. The area is pre-planned, pre-staged, pre-maintained and due to its inherent design. While it is possible that they could be utilized during temporary generation or pre-staged at the location, whether the location is safe to energize (and adequately restoring back to service), is actually beneficial from an outage duration standpoint versus simply waiting, repairing, and restoring the system condition. Since these temporary distribution microgrids utilize reciprocating engine generating assets, the ability to automatically energize these locations is not available. Community Microgrid Enablement Program and Microgrid Incentive Program WMP-Chowhry 2026-2028, DR, TURN_002-0007 Page 2 These microgrids are commonly sited and could increase reliability in areas where they are installed, but are dependent upon the condition and status of the outages and the grid design of the microgrid footprint that determine its conditions for safe operations. 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 Milele Fall-Fry	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/resources/docs/default-source/turn/turn_002_07.pdf https://www.pge.com/resources/docs/default-source/turn/turn_002_07.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 1.9% of the system during the reported condition (L) and "by" 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 joint 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 total fall in the winds that occurred during the day of July 2. The second forecasted wave of critical the weather conditions meeting our PSPS criteria was forecasted to occur late in the evening which allowed us to patch and temporarily re-energize the portion of the customers who were impacted by the first waves 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. Please see the following link for our July 2, 2024 joint de-energization report: https://www.pge.com/resources/docs/default-source/turn/turn_002_08.pdf Generally, conditions that allow PG&E to temporarily re-energize during PSPS events are the fall in critical weather conditions. The fall period would need to be sufficient time for our crews to patch following the weather all-clear. Weather "All-Clears" are called based on pre-defined, geographic areas and mapping of each weather station in each zone to that area. WMP-Chowhry 2026-2028, DR, TURN_002-0008 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 Milele Fall-Fry	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/resources/docs/default-source/turn/turn_002_08.pdf https://www.pge.com/resources/docs/default-source/turn/turn_002_08.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-Chowhry2026-2028, DR, TURN_002-0009A0101" also". The following considerations and assumptions are applied to this response. * 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). * For data on overhead miles replaced by undergrounding: a. For subprojects that are 100% undergrounding with available overhead removal data, the reported figures reflect the overhead miles removed. b. 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-Chowhry 2026-2028, DR, TURN_002-0009 Page 2 * Since the template does not request miles completed outside HFTDs, this response excludes system hardening work under the Community Reliability program. * The original table requested both 2023 actuals and planned work. We updated our response to include actuals through 2024 and planned work for 2025.	A Milele Fall-Fry	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/resources/docs/default-source/turn/turn_002_09.pdf https://www.pge.com/resources/docs/default-source/turn/turn_002_09.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
10	TURN	002	TURN_002	10	No	TURN_002_010	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 L&D is preferred when CBR = 1+ and within 50% of the OH + EPSS CBR and US MB = 0+ MB. Please explain the basis for the figure of 50%. b. It appears that the decision tree begins with L&D as the default option and only reverts to alternatives when certain criteria are not met. Why doesn't PG&E begin with the more cost-effective "Hybrid approach" and move to US when absolutely necessary? c. Please explain the tree strike scores and how they are determined? Why is a score of 0+ significant? d. Please identify and explain each and every criterion that is considered in determining "Are There Excessive Concerns" expressed by PSS team? Please provide a narrative explanation of the types of concerns and how they impact risk. e. Please provide a narrative explanation of the PSPS prototype and the effect on OPZ. f. At any point in the decision tree, are the hybrid project CBRs recalculated based on different permutations/combinations?	a. PG&E is incorporating the cost-benefit model (CBM) for administrative framework in articulation of this requirement as part of the "10-year Electrical Undergrounding Plan (ELUP)". The Commission has stated that "the utility is not bound to select its mitigation strategy based solely on the CBRs produced by the Cost-Benefit Approach", supporting the concept that CBR is not used to be the sole determinant of risk mitigation strategies. This is because an over-emphasis on CBR elevates high-cost / high benefit projects. CBR does not consider the absolute benefits and relative value of permanent risk mitigations, and when used as the sole criteria, results in situations where risk is permanently left on the system, including critical segments where undergrounding benefits are greater than those of overhead hardening. b. 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 On-Handing + 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 tree strike risks, reliability risks created by operational mitigations, and engineering/loss 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. c. 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 the 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. d. PG&E describes what the tree strike scores are and how they are calculated in our 2022 WMP (PG&E's Revised 2022 WMP, July 26, 2022, pages 584-585). The scores represent the number of falls in trees that can touch and break a hardened overhead line. Scores greater than or equal to 6 represent a moderate or greater tree fall risk. e. The PSS considers many factors when evaluating ingress and egress concerns, and	A Milele Fall-Fry	4/7/2025	4/10/2025	4/10/2025	https://www.pge.com/resources/docs/default-source/turn/turn_002_010.pdf https://www.pge.com/resources/docs/default-source/turn/turn_002_010.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1.2
11	OEB	001	OEB_001	1	No	OEB_001_01	Regarding Vegetation Management QA and QC Units On page 410 of the 2026-2028 WMP, PG&E lists "Inspections" as the "Population size/Sample Unit" for VM-08D, VM-08T, VM-22D, and VM-22T. However, in the "Sample Size" column, PG&E uses a different unit, listing the number of miles (VM-08D, VM-08T, and VM-22T) and spans (VM-22D), that it will audit. a. Define what constitutes an "Inspection" unit. b. Clarify whether PG&E is auditing work performed and not performed along the length of the sample inspection, or discrete documented "inspections" within those spans. c. If PG&E audits discrete inspections rather than the entire length of a span/mile, reproduce Table 9-4 "Inspection Management QA and QC Activity" with: i. An estimated total number of inspections it could potentially audit under the 2026, 2027, and 2028 "Population Size" columns. ii. An estimated number of inspections PG&E plans to audit under the 2026, 2027, and 2028 "Sample Size" columns. d. For VM-22T units, PG&E lists "miles" in "Population Size" column, "spans" in "Sample Size," and "Inspections" in the "Population/Sample Unit." Clarify the unit used for VM-22T.	a. For VM-22 D&T, an inspection unit will be the location of overhead electric facilities inspected by Vegetation Management (VM) Operations. b. For VM-08 D&T, an inspection unit will consist of overhead line segments. QA/QC work will be performed along the length of the sample span/mile/locations. Both VM inspection and/or post-trip work activities can be used. c. N/A, please see response B. d. N/A. e. 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-22T, 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/resources/docs/default-source/turn/turn_001_01.pdf https://www.pge.com/resources/docs/default-source/turn/turn_001_01.pdf	0	No	9	Vegetation Management & Inspections	9.11

12	OEIS	001	OEIS_001	2	No	OEIS_001_02	Regarding Vegetation Management QA and QC Outside the HFTD On page 410 of its 2020-2025 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 HFRPA? i. If yes, describe its QA/QC program in its HFRPA. ii. If not, why does it not extend its QA/QC program to its HFRPA? b. Does PG&E perform QA/QC in non-HFTD areas? i. If yes, describe its QA/QC program in non-HFTD areas. ii. If not, why does it not extend its QA/QC program to non-HFTD areas?	a. Yes, QC and QA will perform assessments in HFRPA. b. PG&E's QA/QC will be conducted for the same in HFRPA as elsewhere. i. NA ii. Yes, QC and QA will perform assessments in both HFTD and non-HFTD areas. c. PG&E's QA and QC will be conducted the same in non-HFTD as elsewhere. i. NA	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.11
12	OEIS	001	OEIS_001	2(a)	Yes	OEIS_001_02(a)	Regarding Vegetation Management QA and QC Outside the HFTD On page 410 of its 2020-2025 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 HFRPA? i. If yes, describe its QA/QC program in its HFRPA. ii. If not, why does it not extend its QA/QC program to its HFRPA? b. Does PG&E perform QA/QC in non-HFTD areas? i. If yes, describe its QA/QC program in non-HFTD areas. ii. If not, why does it not extend its QA/QC program to non-HFTD areas?	a. Yes, QC and QA will perform assessments in HFRPA. b. PG&E's QA/QC will be conducted for the same in HFRPA as elsewhere. i. NA ii. Yes, QA will perform assessments systemwide, including HFTD, HFRPA and non-HFTD areas. HFRPA, however, QA will only occur within HFTD and HFRPA areas. c. PG&E's QA and QC will be conducted the same in non-HFTD as elsewhere. i. NA	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.11
12	SPO	002	SPO_002	4	No	SPO_002_04	Every Friday by noon, submit all of the materials requested in Questions 1-3 to Kibworth. Each weekly response should be packaged as a single file and organized according to the following folder structure: a. Party Name (i.e. Energy Safety, Cal Advocates, etc.) b. OEIS Name (i.e. SPO-PGE-WMP0205-001) c. Place the data request responses in this folder: d. Attachments e. Place any attachments to the data request responses in this folder.	PG&E objects to this request on the grounds that continuing discovery obligations are not permitted under California law. See: v. Exxon Mobil Corp., 124 Cal.App.4th 1315, 1328 (2004), Code Civ. Proc., § 2030.060(g). Notwithstanding and without waiving this objection, PG&E responds as follows: Discovery provided to Energy Safety and other requesting parties is publicly posted and available on PG&E's website at Community Welfare Safety Program. The online format version (Email) of PG&E's WMP DR Summary is updated on our website each Thursday. We will provide confidential versions of any confidential responses and/or attachments submitted to Energy Safety or any other party every Friday. We will do our best to provide such responses by noon each Friday, or as soon as is reasonably possible.	Edie Schmitt	4/8/2025	4/18/2025	4/18/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	NA	NA	NA
13	OEIS	001	OEIS_001	3	No	OEIS_001_03	Regarding Vegetation Management QA and QC Target Pass Rates On page 410 of its 2020-2025 WMP, PG&E sets a target pass rate for Vegetation Management Quality Assurance (VMQA) of 97%. On page 411, PG&E writes that VMQA has a "99% estimated level of compliance." a. How does PG&E use the "estimated level of compliance" in its operations? b. Explain why the estimated level of compliance differs from the target pass rate.	a. The 99% estimated level of compliance is the predicted baseline score based on historic audit data. This estimated level of compliance is then entered into a sampling formula along with error rate and confidence level to derive an appropriate sample mileage. For 2025, we have been using between a 2.5% and 3.25% margin of error to account for variability in the audit sampling (once we aren't looking at 100% of the mileage in a given area). After the completion of the audit, we calculate the true margin of error since we'll have a collected growth-in-tree population as a denominator at that point (this is because we use the mileage as a proxy for tree populations to get a minimum amount of mileage to review). At the end of the audit, the audit, the actual margin of error is then determined. If the margin of error used, the audit could be considered statistically valid. Based on the margin of error would account for any other audits where the compliance score was well below 99%. b. Historical VMQA audit shows that system wide, scores average at or above 99% compliance. This is used strictly to derive audit mileage sample. The actual achieved pass rate is a variable dependent on Operational Performance and independent of what VMQA expected to see. Using 99% as a baseline estimated level of compliance is consistent with the audit scores that CA has observed historically.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.11
14	OEIS	001	OEIS_001	4	No	OEIS_001_04	Regarding Vegetation Management Field Quality Control On page 415 of its 2020-2025 WMP, PG&E states that it discontinued its Field Quality Control (FOC) because it is redundant to "ongoing knowledge checks." a. Describe the similarities and differences between FOC and "ongoing knowledge checks." b. List the redundancies between FOC and "ongoing knowledge checks." c. For non-redundant training: i. Explain whether and how PG&E accounts for these aspects in other ways (e.g., other QA/QC programs). ii. If PG&E does not account for these aspects in other ways, explain why PG&E discontinued FOC.	a. Vegetation Management (VM) Knowledge Checks i. VM operations use this check as a required activity. ii. VM construction management development of a Vegetation Management Inspection (VMI) assessment yield both field and desk review components. i. Periodic field visits of VMI from their PG&E leadership team or delegates Field Quality Control (FOC) Assessments i. Performs on-site knowledge assessments of VMI using a defined checklist applicable to specific VM work scope. ii. FOC scope required annual assessment of at least 90% of the eligible vegetation. WMP-Discovery 2020-2025 DR_OEIS_001-Q04 Page 2 i. FOC scope included direct observation of VM inspection work behaviors and adherence/non-adherence to applicable guidance documentation ii. FOC scope included review of VM inspection work behaviors and adherence/non-adherence to applicable guidance documentation iii. The VMI assessment yield will perform knowledge assessments of VM using standardized training methods. FOC performs on-site field observations of VMI. The existing Vegetation Operation Inspection (VOI) and Internal Operations field leadership perform periodic field visits with VMI. i. For non-redundant aspects: i. FOC captures VMI adherence to applicable regulatory requirements and permit guidance documentation and publishes the results in a reporting system. QA/QC can be used as an analog for VMI performance by auditing the VMI work product. ii. NA	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.11
15	OEIS	001	OEIS_001	5	No	OEIS_001_05	Regarding Vegetation Management Field Reviews On page 411 of its 2020-2025 WMP, PG&E describes its Vegetation Management Quality Control (VMQC) program. PG&E states that it "performs field reviews after VMI Operations has completed their inspections and the work is only the applicable procedural scope has been met." a. Does PG&E's record keeping system distinguish between their reviews of inspections and field reviews of tree work? i. If yes, list the sample size for distribution (M-220) and transmission (VM-227) of: A. Inspections quality control field reviews. B. Tree work quality control field reviews. C. Explain any PG&E aggregate quality control of two activities, inspections and tree work, into one target (e.g., VM-220 in Table 9-4, page 410).	a. No, PG&E's VMQC program's record keeping system does not distinguish between field reviews of inspections and field reviews of tree work. i. NA ii. PG&E aggregate quality control of two activities, inspections and tree work, into one target because both VMI assessment criteria allow both VMI inspection and tree work activities to be evaluated to ensure procedural and regulatory compliance is met for the annual roadside cycle.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.11
16	OEIS	001	OEIS_001	6	No	OEIS_001_06	Regarding Vegetation Management Work Orders On page 417 of its 2020-2025 Base WMP, PG&E lists past-due work orders in Table 9-7 and 9-8 and notes that "constrained units are excluded" from both tables. a. Provide Tables 9-7 and 9-8 including constrained work orders. b. List the number of past due work orders constrained by the following categories: i. Customer ii. Environmental Permit iii. Other c. For Environmental and Environmental Permit constraints, list the number of past due work orders by the permit needed to remedy the constraint.	a. Please note, PG&E does not consider constrained units as past due. Please see table(s) below for a breakdown of constrained units by constrained category and HFTD/Non-HFTD level. i. NA	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.12
17	OEIS	001	OEIS_001	7	No	OEIS_001_07	Regarding Vegetation Management Training and Retention On page 422-423 of its 2020-2025 Base WMP, PG&E describes "normal courses (instructor-led and web-based) and on-the-job training" in describing vegetation management personnel training. a. Describe how PG&E invests in the career advancement of its vegetation management personnel. b. Describe PG&E's efforts to retain vegetation management personnel.	a. PG&E invests in the career advancement of its vegetation management (VM) personnel by covering both time and cost of certifications including both Arborist Certification and advanced qualifications like Tree Risk Assessment Qualified (TRAQ). PG&E also helps to streamline the certification process and all personnel in their Arborist certification field preparation, by hosting weekly International Society of Arboriculture (ISA) Arborist Certification study group calls. For current Arborists, PG&E collaborates with the Western Chapter (WC) to schedule dedicated TRAQ qualification training days, ensuring easy access to the course. b. PG&E has utilized the Vegetation Management Inspection (VMI) and Vegetation Operations Inspection (VOI) positions to enhance retention of VM personnel. This initiative has resulted in increased wages and established clear career paths for advancement.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.13
18	OEIS	001	OEIS_001	8	No	OEIS_001_08	Regarding PG&E-208-18: Improving Vegetation Management Inspector Qualifications On page 550 of its 2020-2025 WMP, PG&E describes how it will improve the qualifications and training of VM inspectors. PG&E writes that it has "implemented a process of profiling training courses within the VM organization based on personnel role and internal expertise or contractor status." a. Describe the "profiling" process. b. Define "profiling" in the context of "profiling training courses."	i. With the profiling process, Vegetation Management personnel are automatically assigned training based on their job title. ii. This process automatically assigns training requirements when individuals are hired or change positions. iii. Profiling in the context of "Profiling Training Courses" is defined as linking specific training to job titles.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.13
19	OEIS	001	OEIS_001	9	No	OEIS_001_09	Regarding Distribution Routine Patrol Program On page 563, PG&E's WMP states "PG&E is in the process of evaluating which component(s) of the Proposed Tree Inspection (FTI) and Tree Removal Inventory (TRI) scope will be incorporated into the Distribution Routine Patrol Program. This analysis will be based on training from efficacy studies planned to be performed in 2025. PG&E will incorporate VMQM into activities described in (Activities Based on Weather Conditions)." a. Does PG&E have specific, measurable, achievable, relevant, and time-bound (SMART) targets for evaluating which component(s) of the FTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? i. If yes, provide those SMART targets. ii. If not, explain why PG&E does not have SMART targets for its plan to incorporate its vegetation inspection programs for distribution circuits in the HFTD. b. Describe the procedures for these efficacy studies. c. When does PG&E expect to determine which components of the FTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? d. When does PG&E expect to incorporate the Distribution Routine Patrol Program procedure that includes components of FTI and TRI will be effective (i.e., used by personnel in the field)?	On page 563, PG&E's WMP states "PG&E is in the process of evaluating which component(s) of the Proposed Tree Inspection (FTI) and Tree Removal Inventory (TRI) scope will be incorporated into the Distribution Routine Patrol Program. This analysis will be based on training from efficacy studies planned to be performed in 2025. PG&E will incorporate VMQM into activities described in (Activities Based on Weather Conditions)." a. Does PG&E have specific, measurable, achievable, relevant, and time-bound (SMART) targets for evaluating which component(s) of the FTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? i. If yes, provide those SMART targets. ii. If not, explain why PG&E does not have SMART targets for its plan to incorporate its vegetation inspection programs for distribution circuits in the HFTD. b. Describe the procedures for these efficacy studies. c. When does PG&E expect to determine which components of the FTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? d. When does PG&E expect to incorporate the Distribution Routine Patrol Program procedure that includes components of FTI and TRI will be effective (i.e., used by personnel in the field)?	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.2.1
20	OEIS	001	OEIS_001	10	No	OEIS_001_010	Regarding Pruning and Removal On page 577, PG&E's WMP states "PG&E is examining work prioritization categories beyond the P1, P2, and Routine designation." For the examination: a. Provide examination criteria. b. Provide a description of work prioritization categories under examination. c. Provide a description of the parts of the service territory these new designations will apply to including the service territory need (and/or the service territory need benefit) from additional prioritization categories. d. Provide a schedule for an anticipated completion date of this examination. e. Provide an anticipated effective date of the new prioritization category (i.e., when the prioritization scheme will be used by personnel in the field).	a. The examination criteria are based on the completion timeline associated with P1, P2, and Routine designations. If appropriate, additional work prioritization categories would be introduced. b. The current Work Prioritization categories are defined in Priority Tag Procedures T1020P-17. The current categories are under examination. Additional categories may be considered for creation. c. The consideration for a new work prioritization category could apply to any part of the service territory. A location of higher wildfire risk could have a higher and prioritization designation. d. This examination is a continuous improvement activity with no anticipated completion date at this time. We expect the examination through the end of 2025 to inform our 2025-2029 WMP activities. WMP-Discovery 2020-2025 DR_OEIS_001-Q10 Page 2 e. As the examination progresses, PG&E determines to include any additional work prioritization categories, implementation of those additional categories will subsequently need to take into consideration the management of change to be utilized. We do not have an anticipated effective date at this time.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/Assets/Reg/Docs/Outage/and-safety/vegetation-management-and-safety/2020-2025-WMP-QA-QC.pdf	0	No	9	Vegetation Management & Inspections	9.3

21	OEIS	001	OEIS_001	11	No	OEIS_001_011	Regarding Enterprise System Qualitative Targets On page 535-536 of its WMP, PG&E provides qualitative target ES-01: a. Profiling the current data quality, profiling, and monitoring practices used for VM data. b. Provide the data quality, profiling, and monitoring practices planned for use under ES-01. c. List the datasets that have been identified as critical for VM execution.	• Our complete data quality, profiling, and monitoring practices occur in three phases: - o MANAGE - o Define – develop dataset inventory - o Own – identify owners for the critical dataset - o Measure – provide the information needed to use the data - o Control – identify control points in the process that need to be managed - o Check – conduct actions to remove or improve poor quality data - o Monitor – ensure remediation actions complete and data maintains quality over time - o Dispose – determine when and how to dispose of dataset records - o MITIGATE - o Test – build tests to measure quality data - o Measure – identify data that fails quality standards - o Control – identify control points in the process that need to be managed - o Check – conduct actions to remove or improve poor quality data - o Monitor – ensure remediation actions complete and data maintains quality over time - o Dispose – determine when and how to dispose of dataset records - o MAINTAIN - o Stability – ensure data maintains its quality over time - o Maturity – update the process, the controls, and the data - o We will continue to apply the prior mentioned practices of MANAGE, MITIGATE, MAINTAIN against remaining unmanaged critical data sets. • There are currently 28 critical datasets for VM execution. The number and specific datasets are subject to change as execution needs change. Please see list below: • Asset • AssignedResource • Case • CaseComment • CaseTransformer	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	12	Enterprise Systems	12.2
22	OEIS	001	OEIS_001	12	No	OEIS_001_012	Regarding PG&E 2025-2028: Rerouting of Trees in Tree Removal Inventory On page 522 of its WMP, PG&E provides a response to PG&E 2025-2028 including "In late 2024, PG&E began planning a pilot to re-evaluate trees slated for removal within Shasta County." a. Provide pilot schedule. b. Provide any study results.	• There is no formalized procedure specific to this pilot. PG&E followed T0-710SP-01, Distribution Inspection Procedure and attachment 6 (Tree Removal Inventory program) process for a Level 2 inspection by a Tree Risk Assessment Qualified (TRAQ)-certified arborist. This process was followed for all Tree Assessment Unit (TAU) shade vegetation points with a record of "Yes" in the system of record within Shasta County. • The field execution of the Pilot began in Quarter 4 of 2024 for Level 2 inspections performed by a TRAQ-certified arborist and the subsequent Board-Certified Master Arborist review. • All Level 2 field inspections by TRAQ-certified arborists were completed in Q4 2025. • Any remaining Board-Certified Master Arborist reviews are expected to be completed in Q2 2026. Please note: Subsequent to the field collection of data, PG&E plans to analyze the results of the pilot and evaluate recommended next steps by Q4 2025. WMP-Discovery 2025-2028_DR_OEIS_001-Q012 Page 2 • The study is pending completion and subsequent documentation. Documentation will be analyzed by Q4 2025 for recommendations. The recommendations resulting from the findings of the pilot are also dependent on continued feedback from internal or external stakeholders.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	9	Vegetation Management & Inspections	9.2.1
23	OEIS	001	OEIS_001	13	No	OEIS_001_013	Regarding Wood and Slash Management Tracking Section 9.3.3 of PG&E 2025-2028 WMP states that "Debris management is completed in coordination with tree work across PG&E's service area. Wood management that is consistent in response to a customer request is typically completed within 90 days of the tree work project completion across PG&E's service area, unless affected by weather, land conditions, or other constraints" (p. 381). a. Does PG&E document and track the management of slash and woody debris that is a byproduct of VM work? b. If yes: i. Describe the documentation and record keeping methods used. ii. List the data fields that are recorded as part of the wood and slash debris management tracking process. c. If no, explain: A. How PG&E assesses wood and slash management is completed in all VM treatment areas according to the Utility Standard, T0-7116B and Utility Procedures, T0-7116P-01. B. How PG&E plans to integrate wood and slash debris management tracking into internal procedures similar to tracking the completion of other VM orders.	• A. No. PG&E does not track the management of slash and woody debris, vegetative material less than 4 inches in diameter. • NA • WMP-Discovery 2025-2028_DR_OEIS_001-Q013 Page 2 • I see below: • There is no language in the Utility Standard, T0-7116B or the Utility Procedures, T0-7116P-01 requiring vegetation management (VM) crews to track the management of slash and woody debris. • PG&E directs its VM crews to complete debris treatment in coordination with the Tree Trimming and Brush Removal (TTBR) work. Requirements and expectations outlined in the State of California Public Resources Code (PRC) Section 4291 and California Code of Regulation (CCR) Title 14 Section 1559.03. Our scope includes wood management within the following zones: • 100 feet of a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of the access road to a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of an outbuilding or propane tank.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	9	Vegetation Management & Inspections	9.5
24	OEIS	001	OEIS_001	14	No	OEIS_001_014	Regarding Wood and Slash Management Impacts on Wildlife Risk PG&E 2025-2028, Updating Wood Management Procedures, requires an updated Wood Management Procedure that: [S]pecifies the wildlife risk related to accumulated fuels generated by PG&E's vegetation management activities. On page 588 of its WMP, PG&E states that updates to Utility Standard, T0-7116B and Utility Procedures, T0-7116P-01 include: a. Clarify what wildlife risk PG&E is referring to. b. Explain how wildlife risk related to accumulated fuels generated by PG&E's vegetation management activities is considered in Utility Standard, T0-7116B and Utility Procedures, T0-7116P-01.	• a. The utility vegetation management industry is increasingly concerned about wood remaining from the clearance activities. In response to these concerns, we are aligning with industry practices which includes expanding wood management offerings to all customers and land managers upon request, within a defined scope and across all vegetation management programs. This alignment with industry best practices is documented in our responses to question 15 specifically referenced prior and future scheduled benchmarking activities with SDG&E, SCE and Liberty Utilities. • In addition to expanding wood management offerings as described above, our Wood Management Procedure aligns with defensible space requirements and expectations outlined in the State of California Public Resources Code (PRC) Section 4291 and California Code of Regulation (CCR) Title 14 Section 1559.03. Our scope includes wood management within the following zones: • 100 feet of a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of the access road to a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of an outbuilding or propane tank.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	9	Vegetation Management & Inspections	9.5
25	OEIS	001	OEIS_001	15	No	OEIS_001_015	Regarding Wood and Slash Management Benchmarking In response to PG&E 2025-2028, Updating Wood Management Procedures, PG&E states that benchmarking meetings with SCE and SDG&E to discuss wood management practices in 2023 (p. 388) and benchmarking is targeted to be completed by September 30, 2024 (p. 384). These discussions with SCE and SDG&E and a review of Liberty's procedure book "Natural shape" the "New Wood Management Standard and Procedures" through "Adopt a standard approach across utility" (PG&E) aligned and updated our Standard and Procedures to reflect the common ground of PRC 4291 (p. 588). Future benchmarking meeting dates are expected to include consideration of whether each utility's respective wood management policy meet the required progress defined in the area for continued improvement (p. 391). a. Explain why PG&E plans for the benchmarking effort spans over five years. b. Describe common and uncommon practices between PG&E, SCE, and Liberty that have been identified during the benchmarking effort, explain how each common practice was determined to be included or excluded from PG&E's updated Utility Standard, T0-7116B and Utility Procedures, T0-7116P-01. c. Describe specific outcomes from the benchmarking effort and clarify how these outcomes relate to specific updates in the Utility Standard, T0-7116B and Utility Procedures, T0-7116P-01. d. Compare PG&E's past wood management procedure (prior to benchmarking) to the updated wood management procedures and describe how the updates in the procedure meet the required progress of PG&E 2025-2028.	• a. The utility vegetation management industry is increasingly concerned about wood remaining from the clearance activities. In response to these concerns, we are aligning with industry practices which includes expanding wood management offerings to all customers and land managers upon request, within a defined scope and across all vegetation management programs. This alignment with industry best practices is documented in our responses to question 15 specifically referenced prior and future scheduled benchmarking activities with SDG&E, SCE and Liberty Utilities. • In addition to expanding wood management offerings as described above, our Wood Management Procedure aligns with defensible space requirements and expectations outlined in the State of California Public Resources Code (PRC) Section 4291 and California Code of Regulation (CCR) Title 14 Section 1559.03. Our scope includes wood management within the following zones: • 100 feet of a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of the access road to a human inhabitable structure, structure footprint, or campsite. • Vegetative material located within 15 feet of an outbuilding or propane tank.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	9	Vegetation Management & Inspections	9.5
26	OEIS	001	OEIS_001	16	No	OEIS_001_016	Regarding Integrated Vegetation Management Reassessment and Treatment Timing In section 9.3.3 of VM Reassessment, PG&E states that "The TTM previously worked ROWs are reassessed every 1 year" (p. 388). The 2025-2028 WMP does not describe how the need for reassessment of vegetation is determined. In contrast, PG&E 2025-2028 WMP provided threshold triggers for reassessment of vegetation, including "reassessable vegetation exceeding 3 ft in height and/or when recommended to vegetation is greater than 50 percent ground coverage within the ROW" (p. 405). a. Describe the rationale conducting reassessment inspection on a 2-5 year cycle and clarify what factors (e.g. species, growth rates, percent cover, height) were used to define this timeframe. b. Clarify the threshold triggers PG&E will use to determine the need for reassessment of vegetation in transmission ROWs during the 2025-2028 WMP cycle.	• A. Historically, the rationale for a 2 to 5 year cycle of reassessment was due to it being known that re-sprouting vegetation will regrow within that timeframe. With the availability of LIDAR data, vegetation height and density conditions are analyzed each year. This data also allows for year-over-year growth analysis by agent. The vegetation conditions are then used for work plan development using the inputs described below. • As stated in the 2025-2028 WMP, PG&E schedules Transmission ROW (TRM) reassessment based on outputs of the work plan development described in the program overview (see 9.1.1 p. 384). • WMP-Discovery 2025-2028_DR_OEIS_001-Q016 Page 2 • The quantity of TRM work by year and is dependent on the resources available. PG&E considers the following inputs to determine the need for reassessment of vegetation and vegetation management development: • The year in which previous ROW expansion/ROW clearing project work was completed. Follow-up VM maintenance is then typically targeted to occur within 1-5 years. • How many previous years of VM maintenance has occurred on a line and when the last cycle of maintenance occurred. Follow-up VM maintenance is then typically recommended to occur within 1-5, 3-5, or 5-7 years depending on other factors below. • Vegetation height and density (% cover of size classes at 5-12 feet, at 5-6 feet, and at 5-4 feet) • HFTO/HFTR: Tact and circuit mileage length • Agency and landowner commitments	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	9	Vegetation Management & Inspections	9.7.2
27	OEIS	001	OEIS_001	17	No	OEIS_001_017	Regarding Covered Conductor, Line Removal and Mitigation On page 541 of its 2025-2028 Base WMP, PG&E states "PG&E's System Redesign (SRD) initiative includes combined benchmarking, mitigation, specifically covered conductor mitigation and the removal, including remote grids, of Covered Conductor Line Removal and Mitigation." a. Provide separate targets for the following initiatives in the same table format as Table 8-1. b. Line Removal c. Mitigation	• PG&E does not set separate targets for the initiatives that are included in GH-12. We have provided estimates based on the 2025-2028 timeline and these estimates may differ from the total miles completed each year. For clarity, mitigation information is not included in these estimates. The SRD initiative includes the removal of lines and is included in the removal activity. • See attachment "WMP-Discovery 2025-2028_DR_OEIS_001-Q017AA001.xlsx" with the estimates by initiative requested in Table 8.1, Target.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.1B.2.3.8.2.7
28	OEIS	001	OEIS_001	18	No	OEIS_001_018	Regarding idle transmission power lines a. How many critical miles of idle transmission lines does PG&E have in the HFTD and HFRA? b. Do any of these idle transmission lines run parallel, and if close proximity to energized transmission lines? c. If yes, provide targets for 2026, 2027, and 2028. d. If no, explain: 1. Explain why removal is not planned. 2. Explain if any of these lines could become energized through induction.	• A. PG&E has three idle transmission lines totaling 2.25 miles in HFTD and HFRA. • One of these three runs parallel and close to energized Distribution lines outside of HFTD and HFRA. • A. NA • B. • 1. PG&E plans to remove two of the three lines in 2025. The third line is not planned for removal at this time but is being evaluated for the optimal induction mitigation solution. • 2. Only one of the three lines has sections that could become energized through induction. These sections are outside of HFTD and HFRA, and PG&E is evaluating induction mitigation (WMP-Discovery 2025-2028_DR_OEIS_001-Q018 Page 2) options to reduce the risk of the line becoming energized through induction.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/customers/docs/vegetation-and-utility/vegetation-management/vegetation-management-2025-2028-001-001.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.6.1

29	OEIS	001	OEIS_001	19	No	OEIS_001_Q19	Regarding CC and Underpinning in the Related Areas On page 166 of its WMP, PG&E states, "PG&E often refers to areas that have been impacted directly by wildfires within an FTDO as "Fire Rehab" work. Work in areas impacted by wildfire outside of an FTDO area is referred to as "Community Rehab" work." Provide the targets for the "Overhead Hardening and Line Removal - Distribution (GH-12)" and "System Hardening - Underpinning (GH-04)" activities in 2028 which are designated as "Fire Rehab" or "Community Rehab." Provide your response in the table below.	PG&E has not set separate targets for activities designated as "Fire Rehab" or "Community Rehab." These workstreams are emergent and we initiate, as needed, in response to the incidents. Currently, 10 miles of Community Rehab work are forecasted in 2028 in the System Hardening - Underpinning initiative GH-04. We do not have any additional forecasts for Fire or Community Rehab. See the table below for the requested information: WMP-Discovery 2026-2028_DR_OEIS_001-Q019 Page 2 2026-2027-2028 Fire Rehab Community Rehab Fire Rehab Community Rehab Overhead Hardening and Line Removal - Distribution (GH-12) System Hardening - Underpinning (GH-04) activity Targets: NA, 10 miles NA, NA, NA, NA, NA	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q019.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.18.2.2	
30	OEIS	001	OEIS_001	20	No	OEIS_001_Q20	Regarding the CBR Calculation in Area for Continued Improvement PG&E-253-04 In response to Area for Continued Improvement PG&E-253-04, PG&E discusses the methodology used for its CBR calculation on page 577. The discussion does not include how PG&E calculated the "eyes-on-risk" achieved by a detailed aerial inspection vs. aerial scan inspection. Does PG&E ensure 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 quantity per inspection, photograph daily requirements, reviewer inspection checklists, etc.) If no, provide the following justification: 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 an aerial scan inspection on the same asset. C. The eyes-on-risk of a detailed aerial inspection on an asset in an area of severe consequence and severe wildfire risk. D. The eyes-on-risk of an aerial scan inspection on the same asset. E. The eyes-on-risk of a detailed aerial inspection on an asset in an area of high consequence and high wildfire risk. F. The eyes-on-risk of an aerial scan inspection on the same asset.	A. Yes, PG&E assumes that an aerial scan achieves the same eyes-on-risk as a detailed aerial inspection. The primary objective of inspections is to identify various conditions requiring corrective actions. Some of the corrective actions must be addressed in the short-term while others have a longer time duration depending on the observed condition and location in the FTDO. PG&E's eyes-on-risk metric associated with inspections is meant to measure the ability of an activity to detect issues that are not listed in the short-term. These are conditions that are associated with Level 1 findings and urgent Level 2 findings, which correspond to PG&E's A, B, and X tag. These are the tag conditions that are addressed expeditiously immediately for an X tag, within seven days for an X tag, and within a six-month time frame for a B tag. Since PG&E's aerial scans will identify A, B, and X conditions, it achieves the same eyes-on-risk as a detailed ground or aerial inspection. If not applicable, please see the response to subpart (a) above.	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q020.pdf	0	No	ACI PG&E-253-04	ACI PG&E-253-04	ACI PG&E-253-04	
31	OEIS	001	OEIS_001	21	No	OEIS_001_Q21	Regarding Aerial Scan Inspections On page 236 of its 2026-2028 Base WMP, PG&E states that aerial scan inspections will be implemented to get additional eyes-on-risk in the related areas. PG&E states that the inspection will consist of a review of a "representative set of photos, labeled to enable the identification of the conditions... that pose the highest wildfire risk." 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, items on the reviewer's inspection checklist, etc.) Provide documentation that supports this list of differences (job aids, inspection checklists, etc.)	The difference between the inspections is that, while the detailed inspection will identify all compelling abnormal conditions on the structure, the scan inspection will focus on emergency and urgent conditions, corresponding to A, B, and X tag priorities. PG&E is piloting the aerial scan inspection this year, utilizing different methodologies and then sharing with the grid of selecting the best methodology with which to implement the inspection for 2026. Therefore, we cannot provide a fully detailed list of the differences between the two programs since the aerial scans have not yet been installed. However, as described in PG&E's 2026-2028 WMP, the scan inspection will consist of a review of a streamlined set of photos that have been tailored to enable identification of the conditions on the structure and equipment that pose the highest wildfire risk, including the mid-span conductor. While the aerial scans will be a more abbreviated assessment, they will have the ability to assess and identify the conditions that can lead to failure in the short-term. PG&E is not using "representing the representative necessary resources" (resources) monitoring capabilities and how they may be used to supplement electrical asset inspections. Information on our current distribution grid sensor technologies follows below: A. During the 2026-2028 period, we anticipate scaling deployment of Early Fault Detection (EFD) sensors, Distribution Fault Anticipator (DFA) sensors, and OutageScope sensors. B. Please see below for the requested information on sensor technology. As these sensors are beyond pilot phase, we are also providing the approximate number of sensors we have installed to date. WMP-Discovery 2026-2028_DR_OEIS_001-Q022 Page 2 Senior EFD Capabilities Manufactured IOT Technologies Power Solutions / Texas A&M University OutageScope Approximate Number Installed 203 96 10,000 Device Number / Series EFD Capabilities EFD Tag EFD Tag OutageScope Data the sensor (voltage, current, power quality, temperature, vibration, etc.) Radio frequency definition temperature	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q021.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.3.B.9.3.14	
32	OEIS	001	OEIS_001	22	No	OEIS_001_Q22	Regarding Real Time Sensors On page 237 of its 2026-2028 Base WMP, PG&E states that it is piloting real time sensors that may collect data that in the future can be used in lieu of aerial scan inspections. Provide a list of sensors that are being piloted from 2026-2028. For each sensor provide the following information: a. Model number/name b. Data the sensor records/towards (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	PG&E is currently piloting the "representing the representative necessary resources" (resources) monitoring capabilities and how they may be used to supplement electrical asset inspections. Information on our current distribution grid sensor technologies follows below: A. During the 2026-2028 period, we anticipate scaling deployment of Early Fault Detection (EFD) sensors, Distribution Fault Anticipator (DFA) sensors, and OutageScope sensors. B. Please see below for the requested information on sensor technology. As these sensors are beyond pilot phase, we are also providing the approximate number of sensors we have installed to date. WMP-Discovery 2026-2028_DR_OEIS_001-Q022 Page 2 Senior EFD Capabilities Manufactured IOT Technologies Power Solutions / Texas A&M University OutageScope Approximate Number Installed 203 96 10,000 Device Number / Series EFD Capabilities EFD Tag EFD Tag OutageScope Data the sensor (voltage, current, power quality, temperature, vibration, etc.) Radio frequency definition temperature	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q022.pdf	0	No	10	Situational Awareness and Forecasting	10.4/10.31	
33	OEIS	001	OEIS_001	23	No	OEIS_001_Q23	Regarding Projected Risk Reduction On page 147 of the 2026-2028 Base WMP, PG&E provides Figure 5-1 "Projected Overall Service Territory Risk, showing the residual risk over time with resiliency mitigations and operational mitigations." Provide similar versions of the figure showing the associated projected risk reduction for wildfire risk, POPS risk, and PERS risk over time. From 2023 to 2026, PG&E shows a projected reduction in overall wildfire risk of approximately nine percent when only accounting for resiliency mitigations, but only a reduction of approximately one percent when accounting for operational mitigations and resiliency mitigation together. Provide the actual projected residual risk percentages broken out by year from 2025 to 2028 for both only resiliency mitigations as well as resiliency and operational mitigations. Explain why there is a nominal residual risk reduction when incorporating operational mitigations.	A. The following figures show the projected wildfire risk reduced 2023 - 2023 with and without operational mitigations, the projected POPS risk reduced 2023 - 2023, and the projected PERS risk reduced 2023 - 2023.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q023.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.1	
34	OEIS	001	OEIS_001	24	No	OEIS_001_Q24	Regarding Weather Forecasting On page 87 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 identify the simulations of potential impacts given current fuel conditions." What timeframe is used for evaluating historical fire seasons? How does PG&E define "worst weather days"? How many "worst weather days" are included within the set used for WFC? Does PG&E use the same definition of "worst weather days" for weather and wind scenarios? If not, provide these definitions and the number of "worst weather days" within each scenario. On page 95 of the 2026-2028 Base WMP, PG&E states that it "needs to incorporate the potential impacts of more extreme conditions in future models." When does PG&E anticipate completing this evaluation? When does PG&E anticipate incorporating these more extreme conditions? Are the figures PG&E 5.3.1.1-30 (a) showing the wildfire scenario extreme risks being studied? If not, provide a list of considerations currently being studied by PG&E. PG&E's 2023-2025 WMP includes Table 4-4: Examples of Extreme Event Scenarios Under Consideration (p.185), which was not included in PG&E's 2026-2028 WMP. Provide a similar table showing the extreme event scenarios currently under consideration. On page 88 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 scenario Wind Load 3: Wind Load and Vegetation 3 aligns and/or differs with extreme weather scenarios, as discussed in Section 5.3.2 Extreme Event/High Uncertainty Scenarios. On page 46 of the 2026-2028 Base WMP, PG&E states that "in terms of risk modeling, this strategy entails paying special attention to the risk of high frequency, high consequence events" when discussing Cost-Benefit Analysis. Provide a detailed description of how the evaluation of these low frequency, high consequence events aligns and/or differs with extreme weather scenarios, as discussed in Section 5.3.2 Extreme Event/High Uncertainty Scenarios. PG&E references fragility curves, shown in Figure PG&E-5.2.2.1.1, capturing Wind Load 1, 2, 3, and 4 conditions for its WTRM Planning Model. Provide a detailed description of how PG&E is evaluating the use of fragility curves to perform aerial risk analysis for its distribution-level models. If PG&E is not currently pursuing efforts to incorporate evaluations of impacts from conditions similar to Wind Load 3.	A. The current suite of Wildfire Risk models (Wildfire Consequence, WORM and WTRM) are used for long term planning wildfire mitigation strategies, which incorporates the full range of wildfire risk scenarios through the entire year. In parallel, PG&E is evaluating potential methodologies that can quantify the risk of urban configuration type scenarios that are more likely to occur under extreme weather and fuel conditions. We anticipate completing the evaluation of these methodologies by the end of 2025. B. The methodologies to quantify urban configuration type scenarios are currently being developed and approved for use. They will be incorporated in all of the wildfire consequence model. C. The data of operationalization will depend on the model approved by PG&E's internal Wildfire Risk Governance Steering Committee and consultations with the Asset Strategy teams. WMP-Discovery 2026-2028_DR_OEIS_001-Q024 Page 3 In PG&E is currently evaluating methodologies that quantify urban configuration type scenarios that become more likely in extreme conditions. PG&E is currently evaluating methodologies that quantify urban configuration type scenarios that become more likely in extreme conditions. The factors under consideration include structure density, height, and spread, distance from wetland urban interface and PG&E electrical assets. Please refer to pages 86-87 of its 2026-2028 Base WMP that shows how the various risk models incorporate the weather, wind and vegetation scenarios as well as in Section 5.3.1.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q024.pdf	0	No	5	Risk Methodology & Assessment	5.3	
35	OEIS	001	OEIS_001	25	No	OEIS_001_Q25	Regarding Suppression and Egress Impacts On page 88 of the 2026-2028 Base WMP, PG&E provides Figure PG&E-5.2.1.1: WFC v4 Components, which shows consequence value adjustment steps for suppression access and egress. Provide a detailed description of how the inclusion of suppression access impacts the overall WFC v4 base risk score. Provide the percent change to the overall risk score 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. Provide a detailed description of how the inclusion of egress impacts the overall WFC v4 base risk score. Provide the percent change to the overall risk score when egress is incorporated, as well as a description of the impact to the ranking of highest risk circuits based on wildfire risk scores. PG&E shows TDI (transmission efficiency) index listed as the impacting value under suppression access. What other values, if any, are included to quantify the impact of suppression access? PG&E shows AFR (accession function) index listed as the impacting value under egress. What other values, if any, are included to quantify the impact of egress? How has PG&E validated and verified the impact of including suppression access and egress into its WORM? Provide any results of such validation, including a description	A. Egress and suppression were incorporated into the WFC consequence model in response to the PG&E's 2023-2025 WMP commitment. The current approach only generates the total WFC consequence and WFC risk values used by asset management teams. Suppression and egress consequential risk values are not generated directly from the total consequential risk values. (See below for details on suppression modeling.) B. Please refer to the Wildfire Consequence model v4 documentation, Section 4.1 and 4.2 for details on suppression modeling. C. Please refer to the Wildfire Consequence model v4 documentation, Section 4.2 and 4.3 for details on egress modeling. D. The overall WFC Consequence model v4 with egress and suppression incorporated was validated against historical fire outcomes.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pgandc.com/Assets/Docs/OutageReports/2026-2028-DR_OEIS_001-Q025.pdf	0	No	5	Risk Methodology & Assessment	5.2.1	

36	CEIS	001	CEIS_001	26	No	CEIS_001_026	Regarding Community Vulnerability In the 2023-2025 Base WMP, PG&E provides the following key milestones as part of its risk assessment improvement plan, in Table 6-7 on page 221: "By the end of 2023, evaluate an approach to incorporate community vulnerability attributes (AFN, Event-based, and other types, Critical Facilities) into the WFC Model." a. What were PG&E's results of this evaluation? b. PG&E discussed the importance of vulnerable customer populations as part of PSPS risk assessments (page 47 of the 2026-2028 Base WMP) and through the critical customer weightings (Table PG&E-5.2.2.2, page 68 of the 2026-2028 Base WMP). Please describe how these results to the evaluation discussed in the key milestones identified in the 2023-2025 Base WMP. c. PG&E states that public agency input creation vulnerability on page 47 of the 2026-2028 Base WMP. Describe how this relates to the evaluation discussed in the key milestones identified in the 2023-2025 Base WMP. d. PG&E's description of how PG&E integrated community vulnerability considerations into its wildfire and PSPS consequence models? e. If PG&E is still undergoing this evaluation, what is PG&E's timeline for integration into future models?	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-001-001.pdf	0	No	11	Emergency Preparedness, Collaboration, and Public Awareness	11.3.211.3.3
37	CEIS	001	CEIS_001	27	No	CEIS_001_027	Regarding Independent Review a. Possible a copy of the E3 Review of PG&E's Wildfire Risk Model Version 4, as referenced on page 105 of the 2026-2028 Base WMP. b. Possible PG&E's plan and timeline to address the two areas for improvement listed on page 105 from that report.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-001-001.pdf	1	No	5	Risk Methodology & Assessment	5.6.15.6.2
38	CEIS	001	CEIS_001	28	No	CEIS_001_028	Regarding PG&E's Wildfire Transmission Risk Model (WTRM) a. Figure PG&E-5.3.3, Wildfire Transmission Risk Analysis Framework, only shows eight probability models relating to the WTRM. How are the other 47 components and associated asset groupings for each component? b. Figure PG&E-5.3.3, Wildfire Transmission Risk Analysis Framework, only shows eight probability models relating to the WTRM. How are the other 47 components and associated asset groupings for each component? c. Figure PG&E-5.3.3, Wildfire Transmission Risk Analysis Framework, only shows eight probability models relating to the WTRM. How are the other 47 components and associated asset groupings for each component? d. Figure PG&E-5.3.3, Wildfire Transmission Risk Analysis Framework, only shows eight probability models relating to the WTRM. How are the other 47 components and associated asset groupings for each component? e. Figure PG&E-5.3.3, Wildfire Transmission Risk Analysis Framework, only shows eight probability models relating to the WTRM. How are the other 47 components and associated asset groupings for each component?	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-001-001.pdf	0	No	5	Risk Methodology & Assessment	5.25.5
39	MGR	002	MGR_002	1	No	MGR_002_01	Weather station metadata valid as of Q4 of 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-001.pdf	1	No	NA	GIS	NA
39	MGR	002	MGR_002	1(a)	Yes	MGR_002_01(a)	Weather station metadata valid as of Q4 of 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-001.pdf	1	No	NA	GIS	NA
40	MGR	002	MGR_002	2	No	MGR_002_02	PSPS event damage event reports obtained from post-event patrols, including cause for all quarters of 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-002.pdf	2	No	NA	GIS	NA
40	MGR	002	MGR_002	2(a)	Yes	MGR_002_02(a)	PSPS event damage event reports obtained from post-event patrols, including cause for all quarters of 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-002.pdf	3	No	NA	GIS	NA
41	MGR	002	MGR_002	3	No	MGR_002_03	Unreported outage data, including cause for all quarters of 2023 and 2024. a. If possible should include whether the outage occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-003.pdf	1	No	NA	GIS	NA
41	MGR	002	MGR_002	3(a)	Yes	MGR_002_03(a)	Unreported outage data, including cause for all quarters of 2023 and 2024. a. If possible should include whether the outage occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-003.pdf	1	No	NA	GIS	NA
42	MGR	002	MGR_002	4	No	MGR_002_04	Wire down data for all four quarters of 2023 and 2024. Include cause and any associated outage identifier. a. If possible should include whether the outage occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-004.pdf	1	No	NA	GIS	NA
42	MGR	002	MGR_002	4(a)	Yes	MGR_002_04(a)	Wire down data for all four quarters of 2023 and 2024. Include cause and any associated outage identifier. a. If possible should include whether the outage occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-004.pdf	1	No	NA	GIS	NA
43	MGR	002	MGR_002	5	No	MGR_002_05	Ignition data for all four quarters of 2023 and 2024. a. Should include cause and any associated outage identifier. b. If possible should include whether the ignition occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-005.pdf	1	No	NA	GIS	NA
43	MGR	002	MGR_002	5(a)	Yes	MGR_002_05(a)	Ignition data for all four quarters of 2023 and 2024. a. Should include cause and any associated outage identifier. b. If possible should include whether the ignition occurred on a covered conductor segment.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-002-005.pdf	1	No	NA	GIS	NA
44	MGR	003	MGR_003	1	No	MGR_003_01	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 WTRM-HFRA. b. Number of miles of fully "bare wire" conductor circuit segments in the WTRM-HFRA. c. Number of miles down for associated with a covered conductor circuit segment in the WTRM-HFRA. d. Number of miles down associated with a "bare wire" conductor circuit segments in the WTRM-HFRA. e. Number of miles down for associated with a covered conductor circuit segment in the WTRM-HFRA. f. Number of miles down for associated with a "bare wire" conductor circuit segments in the WTRM-HFRA. g. For ignitions on partially covered circuit segments in the WTRM-HFRA, or ignitions with uncertain origin, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of ignition. h. Number of outages attributable to infrastructure or fully covered conductor circuit segments in the WTRM-HFRA. i. Number of outages attributable to infrastructure or fully covered conductor circuit segments in the WTRM-HFRA. j. For outages on partially covered circuit segments in the WTRM-HFRA, or outages with uncertain location, sum these into the "fully covered" or "bare wire" group based on the most prevalent circuit configuration in the area of the outage.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/docs/outage-logs-and-logs/2026-2028-003-001.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.4.418.2.10

44	MGRA	003	MGRA_003	1(a)	Yes	MGRA_003_01(a)	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 HFTD-HFRA. b. Number of miles of fully "bare wire" conductor circuit segments in the HFTD-HFRA. c. Number of wires down for associated with a covered conductor circuit segment in the HFTD-HFRA. d. Number of wires down associated with a "bare wire" conductor circuit segments in the HFTD-HFRA. e. Number of outages attributable to fully covered conductor circuit segments in the HFTD-HFRA. f. For outages on partially covered circuit segments in the HFTD-HFRA, or outages with uncertain origin, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of ignition. h. Number of outages attributable to infrastructure on fully "bare wire" conductor circuit segments in the HFTD-HFRA. i. Number of outages attributable to infrastructure on fully covered conductor circuit segments in the HFTD-HFRA. j. For outages on partially covered circuit segments in the HFTD-HFRA, or outages with uncertain location, 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/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	1	No	8	Grid Design, Operations, and Maintenance	6.4.418.2.10
45	MGRA	003	MGRA_003	2	No	MGRA_003_02	Some of the risk drivers in Table 3.1 (pp. 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 this association: a. Castering Bank b. Fuse c. Lightning Arrester d. Substation e. Contamination	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	3	Overview of WMP	3.4
46	MGRA	003	MGRA_003	3	No	MGRA_003_03	On p. 24, PG&E states that "These exceptional temperatures, in turn, impact the relative humidity of the atmosphere, increasing the occurrence of power pressure 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 our assets and creating potential sources of wildfire ignition." What evidence does PG&E have that demonstrates how drought conditions relate to branch and tree failures? Has PG&E analyzed the relationship between drought variables and vegetation ignition rates? If so, please provide the results. If it has not been done so, is it planned to do so and what would be the timeline? If it is not planned to do so what is the justification?	Joseph Mitchell	4/11/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	9	Vegetation Management & Inspections	9.9
47	MGRA	003	MGRA_003	4	No	MGRA_003_04	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/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	5	Risk Methodology & Assessment	5.4
48	MGRA	003	MGRA_003	5	No	MGRA_003_05	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/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6	No	MGRA_003_06	Regarding the WORM v4 ignition probability model: a. Are the coordinates 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 Model 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 HFTD-HFRA areas of the PG&E service area: i) Percent difference from average wildfire season daily max windspeed ii) Average wildfire season relative humidity iii) Average wildfire season pressure deficit iv) Percent gully summer day	Joseph Mitchell	4/11/2025	5/5/2025	5/5/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	1	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6(a)	Yes	MGRA_003_06(a)	Regarding the WORM v4 ignition probability model: a. Are the coordinates 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 Model 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 HFTD-HFRA areas of the PG&E service area: i) Percent difference from average wildfire season daily max windspeed ii) Average wildfire season relative humidity iii) Average wildfire season pressure deficit iv) Percent gully summer day	Joseph Mitchell	4/11/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	3	No	5	Risk Methodology & Assessment	5.4
50	MGRA	003	MGRA_003	7	No	MGRA_003_07	Regarding Figure PG&E-6.1.3.2.1 (2025 Year Baseline) representing system-wide wildfire risk, do the values shown in the figure include PG&E's risk scoring function? If the answer is 'yes', please provide a figure showing the same values without the scoring function (a neutral risk attribute).	Joseph Mitchell	4/11/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
51	MGRA	003	MGRA_003	8	No	MGRA_003_08	Figure 6-1 (p. 140) shows PG&E's fractional risk reduction on a yearly basis from 2021 to 2023. Using available data and methodology, please provide an equivalent risk reduction chart showing the fractional change of PG&E's overall service territory wildfire risk between 2017 and 2024.	Joseph Mitchell	4/11/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/Files/Docs/Outages/2025-2026-MGRA_003.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2

69	OEIS	002	OEIS_002	14	No	OEIS_002_014	Regarding suppression and egress impacts On page 32 of PG&E's Wildlife Consequence Model Version 4 (WFC-v4) Documentation, PG&E states that "This was not the original expectation for adding the wildfire suppression and public ignition impacts, resulting in additional efforts to validate the results and confirm the model development" when discussing the adjusted consequence curve and associated actions thereof. a. How did PG&E calculate the mileage associated with mitigating 60% of the wildfire risk? b. How did PG&E calculate the mileage associated with mitigating 60% of the wildfire risk? c. How did any efforts resulting in response to this validation impact the consequence curve? Provide copies of the curve before and after. d. Provide a step-by-step process showing how PG&E calculated the associated mileage of work needed to mitigate 60% of the wildfire risk before and after.	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/21/2025-04-21-002.pdf	0	No	5	Risk Methodology & Assessment	5.4
70	OEIS	002	OEIS_002	15	No	OEIS_002_015	C15: Regarding PG&E's Ignition Investigation Process Figure PG&E-A.1.3.12: Summary of Ignition Investigation Process, on page 123 of PG&E's 2006-2028 Base WMP includes a step for "Corrective Actions Generated and Augmented." a. Provide a copy of Table 5-5: Summary of Top Risk Circuit Segments from the 2006-2028 Base WMP that have led to changes in PG&E's wildfire mitigation efforts since PG&E's 2023-2025 Base WMP. b. Provide a list of figures, including actions and locations, associated with the changes discussed in part (a).	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/16/2025-04-16-002.pdf	0	No	ACI PG&E-25U-01	Outage-to-Ignition Risk Analysis	ACI PG&E-25U-01
71	OEIS	002	OEIS_002	16	No	OEIS_002_016	Regarding Table 5-5: Summary of Top Risk Circuit Segments a. Provide a copy of Table 5-5: Summary of Top Risk Circuit Segments from the 2006-2028 Base WMP that include additional columns for: - WFC-v4 Consequence Values - PG&E's Risk Score - PG&E's Risk Score - HFTD Designation, including percentage by circuit mileage that falls in each designation (HFTD Tier 1, HFTD Tier 1a, HFTD Tier 2a, HFTD Tier 2b, and HFTD Tier 3)	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/21/2025-04-21-002.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
72	OEIS	002	OEIS_002	17	No	OEIS_002_017	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2006-2028 Base WMP that includes the following additions: a. The associated circuit mileage for each of the hardening activities (covered conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/16/2025-04-16-002.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
72	OEIS	002	OEIS_002	17(a)	Yes	OEIS_002_017(a)	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2006-2028 Base WMP that includes the following additions: a. The associated circuit mileage for each of the hardening activities (covered conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Nathan Poon	4/11/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/29/2025-04-29-002.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
73	OEIS	002	OEIS_002	18	No	OEIS_002_018	Regarding Independent Review of PG&E's Wildfire Risk Model For each of the following recommendations made in the E3 Review of PG&E's Wildfire Risk Model Version 4, provide a description of 1) the progress/improvements made, 2) the current status, 3) the timeline/implementation date for addressing the recommendation, and 4) the model(s) and associated metrics impacted by implementing the recommendation. a. Right-of-way development efforts based on importance and impact (pp. 11, 36, 50, 59) b. Justify and seek improvements for model approaches that dilute wildfire-specific detail: consequence timing and severity (pp. 12, 33, 40) c. Report risk - uncertainty in outputs and develop a process to understand how individual modeling updates impact risk (pp. 12, 33, 40) d. Incorporate air quality and health impacts (pp. 13, 57, 60) e. Improve transparency and resulting safety efforts (p. 37) f. Develop robust validation procedures (p. 49) g. Improve transparency and assessment of proprietary wildfire spread modeling and the wildfire consequence model at large (p. 56) h. Consider the differences in mitigation timelines (p. 58)	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/pge/docs/OutageLogs/2025/04/21/2025-04-21-002.pdf	0	No	5	Risk Methodology & Assessment	5.4

107	OEIS	003	OEIS_003	6	No	OEIS_003_06	Regarding Pole Clearing Table 8.2 shows an Activity Timeline Target of 365 days for Pole Clearing Program (VM-02). a. Explain how the timeline target allows PG&E to maintain compliance with PRC 4202. b. Provide documentation of an example of past conditions that required PG&E to use a substantial portion of the 365-day Activity Timeline Target to complete pole clearing work.	Nathan Poon	4/19/2025	4/18/2025	4/18/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	0	No	9	Vegetation Management & Inspections	9.4
108	OEIS	003	OEIS_003	7	No	OEIS_003_07	Regarding Substation Inspection Timelines Table 8.2 shows an Activity Timeline Target of 274 days for Substation Inspections - Distribution (VM-03), Substation Inspections - Transmission (VM-05), and Substation Inspections - Power Generation (VM-07). a. Explain how the timeline target allows PG&E to maintain compliance with PRC 4201. b. Provide documentation of an example of past conditions that required PG&E to use a substantial portion of the 274-day Activity Timeline Target to complete pole clearing work.	Nathan Poon	4/19/2025	4/18/2025	4/18/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.3.15
109	SPO	002	SPO_002	1	No	SPO_002_01	Every Friday by noon, provide SPO with copies of any data requests PG&E received from the Office of Energy Infrastructure Safety (Energy Safety) or any other party within the previous seven days. Include any attachments, appendices or details in the native format that were submitted to PG&E with the data requests.	Edie Schwelt	4/18/2025	4/18/2025	4/18/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	0	No	NA	NA	NA
110	SPO	002	SPO_002	2	No	SPO_002_02	Every Friday by noon, provide SPO with any responses to data requests that PG&E sent to Energy Safety or any other party within the previous seven days. Include any attachments, appendices or details in the native format that were sent to Energy Safety or any other party with the data requests.	Edie Schwelt	4/18/2025	4/18/2025	4/18/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	0	No	NA	NA	NA
111	SPO	002	SPO_002	3	No	SPO_002_03	Every Friday by noon, provide SPO with the updated native format version (i.e. Excel) of the PG&E WMP DR Summary that is submitted weekly to the Energy Safety docket.	Edie Schwelt	4/19/2025	4/18/2025	4/18/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	0	No	NA	NA	NA
112	TURN	003	TURN_003	1	No	TURN_003_01	Please provide PG&E's wildfire risk model (WORM v4) assumptions and results in Excel. Please provide all output and assumptions available. At minimum, this should include Circuit Protection Zone (CPZ) name, likelihood, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include the following: a. Include which CPZs are prioritized for undergrounding from 2025-2028 (please indicate the year work will start and finish). b. Include which CPZs are prioritized for overhead hardening from 2025-2028 (please indicate the year work will start and finish).	Reina Yanagiba	4/17/2025	4/29/2025	4/29/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	3	No	5	Risk Methodology & Assessment	5.4
113	TURN	003	TURN_003	2	No	TURN_003_02	Please provide an estimate, by activity, of total annual cost and risk reduction for all wildfire mitigation activities from 2019-2024 (incorporated). Please explain whether this risk reduction has been incorporated into PG&E's baseline risk. Please provide all supporting calculations and data in Excel.	Reina Yanagiba	4/17/2025	4/25/2025	4/25/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	0	No	5	Risk Methodology & Assessment	5.4
114	TURN	003	TURN_003	3	No	TURN_003_03	In Excel, please provide the outputs of the PSPS and EPSS risk models, respectively, with the same circuit/CPZ identifiers as provided in the previous questions. At minimum, this should include Circuit Protection Zone (CPZ) name, likelihood, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include which CPZs are targeted for PSPS and EPSS mitigations from 2025-2028. Please indicate what the mitigations are.	Reina Yanagiba	4/17/2025	4/25/2025	4/25/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	1	No	5	Risk Methodology & Assessment	5.4
115	TURN	003	TURN_003	4	No	TURN_003_04	1. In Excel, please provide the outputs of the PSPS and EPSS risk models, respectively, with the same circuit/CPZ identifiers as provided in the previous questions. At minimum, this should include Circuit Protection Zone (CPZ) name, likelihood, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include which CPZs are targeted for PSPS and EPSS mitigations from 2025-2028. Please indicate what the mitigations are. 2. Provide supporting data and calculations: a. Total risk of the project (start and finish). b. Number of overhead miles removed. c. Purpose of the project, including whether it was related to wildfire risk or an other setting. d. Number of overhead miles covered/hardened. e. Cost per overhead mile. f. For all overhead hardening projects completed from 2018 to 2024, please provide, on a project-level basis, the following information: i. Date of the project (start and finish). ii. Date of the project (start and finish). iii. Number of overhead miles covered/hardened. iv. Cost per overhead mile. v. Purpose of the project, including whether it was related to wildfire risk, and vi. Cost per overhead mile. g. Please provide assumed unit costs (downward risk) for covered conductor and undergrounding, separately, in 2026, 2027, and 2028, respectively. Please provide all supporting data and	Reina Yanagiba	4/17/2025	4/25/2025	4/25/2025	https://www.pge.com/youm/pge/docs/outage-and-safety/outage-preparedness-and-support/PGE-2025-04-QDR-1-20250301-01.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.3.1.1

140	SPO	003	SPO_003	3	No	SPO_003_03	In Figure 6-1, what are the projected mileages for each resiliency mitigation for each year through 2037? a. How were the projected mileages, especially those beyond 2028, for the resiliency mitigations established?	Figure 6-1 includes projected mileage beyond 2028 for two mitigation programs only: Overhead Hardening and Undergrounding. Projected miles include 100 miles of Overhead Hardening and 400 Miles of Undergrounding. The projected mileage estimates beyond 2028 were established by looking at historical performance as well as 2026-2028 projected mileage for those resiliency mitigations and assuming a relatively flat unit execution across future years. The high-voltage systems are not based on accepted projects, but rather a 1-to-4 WORM v4 wildfire risk index of circuit segments. Mileage values as well as targeted locations will be subject to change in future years due to concurrent and ongoing regulatory filings such as the GRC and the Electric Undergrounding Plan (EUP). Further detail surrounding mitigation selection criteria are described within section 8 of the WMP.	Harry Sweat	4/29/2025	5/29/2025	5/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_03	0	No	6	Wildfire Mitigation Strategy Development	6.2.1
141	SPO	003	SPO_003_04	4	No	SPO_003_04	For Figures 6-1 and the figures in Part a of "WMP-Discovery2026-2028_DR_OEIS_001-Q023," what are the actual percentages values for each year? a. What are the baseline 2023 values for Wildfire Risk, PSPS Risk and EPSS Risk? b. Provide the three figures in Part a of "WMP-Discovery2026-2028_DR_OEIS_001-Q023," using absolute values of monetized risk in dollar values. c. What is the assumed risk reduction from operational mitigations for each year for wildfire risk (the first figure in the response to part (a) of "WMP-Discovery2026-2028_DR_OEIS_001-Q023")?	The actual percentages of each risk and mitigation from Figure 6-1 has been extracted in to the following table: The baseline risk values, in dollarized figures are listed in the below table: Figure 6-1 is regenerated based on values in the following 5 figures: The following figure assumes that the coordinated mitigations and their effects on wildfire risk without operational mitigations are to be presented in dollarized risk, similar to the answers in part b. Please see attachment "WMP-Discovery2026-2028_DR_SPO_003-003/001-010.xlsx". The resiliency undergrounding mitigations 100% completed in 2023 and 2024. Note, this is the same subset of data provided in response to "WMP-Discovery2026-2028_DR_OEIS_001-Q023/001-010.xlsx" with the correction factor applied. The primary overhead miles removed and replaced by undergrounding reflect actual overhead miles removed on undergrounding subprojects, where data is available; otherwise, where data is not yet available, we used the adjusted overhead to undergrounding conversion factor of 1 mile of overhead to 1.25 miles of undergrounding.	Harry Sweat	4/29/2025	5/29/2025	5/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_04	0	No	6	Wildfire Mitigation Strategy Development	6.2.1
142	SPO	003	SPO_003_05	5	No	SPO_003_05	Complete the actual conversion factor for projects in 2023 and 2024 between overhead lines to underground lines. Provide an explanation of the computation. See the computation provided in PG&E's response to "WMP-Discovery2026-2028_DR_SPO_003-003-Q006" for an example.	Please see attachment "WMP-Discovery2026-2028_DR_SPO_003-003/001-010.xlsx". The resiliency undergrounding mitigations 100% completed in 2023 and 2024. Note, this is the same subset of data provided in response to "WMP-Discovery2026-2028_DR_OEIS_001-Q023/001-010.xlsx" with the correction factor applied. The primary overhead miles removed and replaced by undergrounding reflect actual overhead miles removed on undergrounding subprojects, where data is available; otherwise, where data is not yet available, we used the adjusted overhead to undergrounding conversion factor of 1 mile of overhead to 1.25 miles of undergrounding.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_05	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
143	SPO	003	SPO_003_06	6	No	SPO_003_06	For GH4, provide a definition of the miles target and compare the definition to the target in the 2026-2028 WMP. For instance, is the target some combination of "the miles of primary overhead line to be replaced by undergrounding," "the miles of overhead (primary, secondary and service) lines to be replaced by undergrounding," "the miles of undergrounded primary lines to be installed" or "the miles of undergrounded (primary, secondary and service) lines to be installed"? a. PG&E proposes two forms of undergrounding (underground primary, and undergrounded). Provide the number of miles for each undergrounding type desired for 2026, 2027, and 2028. b. Page 191 of the PG&E's 2026-2028 WMP states: "While PG&E will choose either overhead hardening or undergrounding as the primary mitigation, PG&E often implements a hybrid mitigation solution that consists of both overhead hardening and undergrounding on portions of the same circuit segment." c. If a hybrid solution is implemented, how will the mileage be recorded in GH4 and GH12? d. If undergrounding is the primary mitigation, but some covered conductor is installed on the project because undergrounding is infeasible for a small section of the line, how will the mileage be recorded in GH4 and GH12? e. Provide the number of miles where PG&E expects a hybrid solution will be implemented and recorded in GH4 and GH12.	a. While PG&E's WMP references the effectiveness of Underground All (primary, secondary and service) lines, and of Underground Primary, the undergrounding mileage commitments for GH4 listed in Table 8.1.1 for the WMP period are specifically for the undergrounding of primary distribution lines. WMP-Discovery 2026-2028_DR_SPO_003-006 Page 2 1. For any project with a combination of undergrounding and overhead hardening and/or replacement, undergrounding mileage will be recorded in GH4-12. 2. For any project with a combination of undergrounding and overhead hardening and/or replacement, undergrounding mileage will be recorded in GH4-12. 3. For any project with a combination of undergrounding and overhead hardening and/or replacement, undergrounding mileage will be recorded in GH4-12. a. Please, refer to attachment "WMP-Discovery2026-2028_DR_SPO_003-006/001-010.xlsx". b. A list of circuit segments that have been targeted for undergrounding and overhead hardening and/or replacement. For 2026 work, subprojects have been included at the subproject level. For 2027 and 2028 work, the miles associated with hybrid solutions will be determined once they are fully accepted. c. A summary of the miles is included in the "Summary" tab and below for reference.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_06	1	No	GH04	GH04	GH04
144	SPO	003	SPO_003_07	7	No	SPO_003_07	Explain how PG&E calculates the risk reduced when there is a combination of undergrounding and covered conductor on a particular circuit segment. Clarify there is a difference in how the risk reduction is calculated if a primary covered conductor project, primary undergrounding project or a hybrid project is chosen.	Risk reduction is based on the relative effectiveness values of each mitigation applied against the proportion of a circuit segment addressed by the corresponding mitigation. For example, for a segment with a wildfire mitigation effectiveness value of 67% for CH and 98% for UC, the risk reduction for that circuit segment containing 10 risk points prior to mitigation would be: 1. For CH: Risk Reduction = 10 risk points x 67% = 6.7 risk points 2. For UC: Risk Reduction = 10 risk points x 98% = 9.8 risk points 3. For a Hybrid Project (half of the segment mileage mitigated by CH and half mitigated by UC): Risk Reduction = (5 risk points x 67%) + (5 risk points x 98%) = 8.25 risk points This is a simplified example of the calculation detailed in PG&E's Advice Letter 7110E-04.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_07	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
145	SPO	003	SPO_003_08	8	No	SPO_003_08	Provide additional explanation on the discussion in section 8.2.2 under the heading, "Impacts on Loadshed and Consequence of Program Events." The questions below are posed under the assumption that the lines would not be subject to PSPS and EPSS conditions due to the covered conductor segments. a. For circuit segments where there are covered conductor miles interspersed among undergrounded miles, explain how PG&E will plan to use PSPS and EPSS for these circuit segments. b. Is there a threshold for the amount of covered conductor (in ft. If there is a 5-mile undergrounded circuit segment that has only 100 feet of covered conductor and that circuit segment is subject to PSPS conditions, would a PSPS event be triggered?) c. For undergrounded segments from the 2023-2025 WMP where only the primary conductor was undergrounded, explain how PG&E will use of PSPS and EPSS.	Regarding WPS, we "reports on Loadshed and Consequences of Program Events" in section 8.2.1 of the 2026-2028 WMP which further explains overhead and underground isolation for PSPS events at a high level. There is no threshold for the amount of covered conductor to be exempt from PSPS. The event mitigation for covered conductor miles interspersed among undergrounded miles, explain how PG&E will plan to use PSPS and EPSS for these circuit segments. a. For circuit segments where there are covered conductor miles interspersed among undergrounded miles, explain how PG&E will plan to use PSPS and EPSS for these circuit segments. b. Is there a threshold for the amount of covered conductor (in ft. If there is a 5-mile undergrounded circuit segment that has only 100 feet of covered conductor and that circuit segment is subject to PSPS conditions, would a PSPS event be triggered?) c. For undergrounded segments from the 2023-2025 WMP where only the primary conductor was undergrounded, explain how PG&E will use of PSPS and EPSS.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_08	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
146	SPO	003	SPO_003_09	9	No	SPO_003_09	The system target for GH4 is 370 miles for 2028 whereas PG&E previously forecasted a target of 440 miles. a. Provide the baseline for miles related to Butte County Reliability in 2026. b. The WMP states the reduction is because the PG&E forecasts being able to achieve the risk reduction in the GRC with less miles than previously forecasted. Provide a high-level justification for this number. The justification should be disaggregated by the amount of risk reduced per year by mitigation and by the risk model. c. Provide the risk reduction in part (b) but calculate the risk reduction based on the risk calculated in WORM v4. d. In Advice Letter 7112-E submitted on July 1, 2024, PG&E presented its System Hardening Accountability Report. In the Baseline, Risk, Miles spreadsheet of Attachment B, PG&E forecasted 15.5 WORM v2 miles and 17.5 WORM v4 miles of hardening to be completed in 2026. Do these numbers account for the changed forecast in GH4? e. If yes, please provide how many WORM v2 miles of undergrounding and how many WORM v4 miles of undergrounding PG&E now forecasts as being completed in 2026 in order to satisfy the risk reduction target achieved in COP 22 of D-23-1-060. f. If not, provide the new forecast of WORM v2 miles and WORM v4 miles of hardening to be completed in 2026. Also provide how much of the updated forecast of WORM v2 miles and WORM v4 miles of hardening that PG&E forecasts would be undergrounding to be completed in 2026.	Note, the risk and miles included in the table below exclude Community Reliability work given it is not part of the 2023-2028 GRC System Hardening program. The estimated WORM risk values provided in this response represent the net metrics for circuit segments sharing the same name as the legacy circuit segments. The risk values for WORM are calculated based on the risk values for circuit segments that have been targeted for undergrounding and overhead hardening and/or replacement. For 2026 work, subprojects have been included at the subproject level. For 2027 and 2028 work, the miles associated with hybrid solutions will be determined once they are fully accepted. c. A summary of the miles is included in the "Summary" tab and below for reference.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_09	0	No	GH04	GH04	GH04
147	SPO	003	SPO_003_010	10	No	SPO_003_010	In the 2024 QDR spatial data set, the polygons GH01 and GH04 are frequently overlaid on each other. Explain how to identify how many miles were undergrounded, covered conductor or removed, as well as how to understand the sub configuration of the system. Additionally, answer the following: a. SPO assumed the history in the data set which states "right" and "corner" would distinguish between undergrounding and covered conductor, but in finding that these numbers do not add to the completed completed miles in a given WMP year. What is "right" and "corner" and why do they not add up to the completed miles? b. SPO found the length of the polygons added up to 291 miles for GH01 (Status=Complete, Completed Date=14), but the reported actual number of miles completed in the value QDR is 348. Explain why the length of the polygons is not equal to the 348 miles. c. Some GH01 data is in points instead of polygons – explain why polygons are not used since there is either a portion of a line being removed, cover conductor or undergrounded.	PG&E's Geographic Information System (GIS), Electric Transmission GIS, and Electric Distribution GIS maps systems represent assets associated with construction work where that work has been received and mapped by electric GIS mapping technicians. Construction data is partially captured by "Completed" in the GIS Data. Information has been submitted and accepted by the GIS Mapping Department. Prior to being received by the GIS Mapping Department, completed job packages must undergo several processing steps including aerial review, processing, and paperwork scanning. Sometimes, the processing steps take time to complete. Until a project is completed and received, detailed information remains in the design systems and paper job packages. When spatial quarterly reports are created, there will be varying levels of mapping available for each project. PG&E provides spatial data to the extent each job has been mapped. Please note, when a job status changes to "Completed" in the GIS Data, Standard submissions the GIS Mapping Department may still be undergoing processing steps to reflect the completed job packages in GIS mapping systems. As such, construction field complete, does not mean mapping complete. a. As detailed above, the Description/Officer data field can be used to see the current planned removal feed, underground feed, and covered feed. This is an optional field in the Description/Officer data field.	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_010	0	No	GH04	GH04	GH04
148	SPO	003	SPO_003_011	11	No	SPO_003_011	Provide an update for full 2024 year data to "WMP-Discovery2023-2025_DR_SPO_010-Q012.pdf" and the supplemental response.	For the year 2024, PG&E confirms the average number of strike trees per mile of lines measured on Postcard Tree Inspection (PTI) prior to removal is 785.84. Please see the calculation below for how this number was determined: For the year 2024, PG&E confirms the average number of strike trees per mile of lines requested after removals is 748.41. Please see the calculation below for how this number was determined: Please see the following data for the requested information for the year 2024: - Number of total trees worked: 56,342 trees - Number of total trees removed: 52,693 trees - Number of trees inspected: 1,588.1 miles - Number of strike trees per mile of lines inspected before removals: 785.84 trees/mile - Number of strike trees per mile after removals: 748.41 trees/mile - Number of trees inspected: 1,232,276 trees	Harry Sweat	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/energy/gh4/gh4outage-and-notice-to-prepare-projects-and-activities-and-projects/2026-2028-spo_003_011	0	No	9	Vegetation Management and Inspections	9

149	BPO	003	SPO_003	12	No	SPO_003_012	Provide the data in Tables 1 through 3 for each of PG&E's 2023-2028 WMP planned Vegetation Management Programs and PG&E's 2020-2028 WMP Programs. These should be one spreadsheet for each of the Vegetation Management Programs listed in Tables 4 and 5. a. Choose how PG&E's evaluation of Focused Tree Inspection, Tree Removal Inventory and Vegetation Management for Operational Mitigations for consideration into its distribution inventories, and change the forecasts in Table 3. For the 2023-2028 WMPs, BPO expects the individual programs to be reported on to include: Table 4 List of Vegetation Management Programs 2023-2028 For the 2020-2028 WMPs, BPO expects the individual programs to be reported on to include: Table 5 List of Vegetation Management Programs 2020-2028	Henry Sweet	4/29/2025	5/7/2025	5/7/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-003-012	1	No	9	Vegetation Management and Inspections	9
150	BPO	003	SPO_003	13	No	SPO_003_013	Complete the Tables 1 through 3 at the systemwide and HFTD scale for all of PG&E's Vegetation Management work (i.e. the total number of trees removed systemwide and separately the total number of trees removed in the HFTD).	Henry Sweet	4/29/2025	5/7/2025	5/7/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-003-013	1	No	9	Vegetation Management and Inspections	9
151	SPO	003	SPO_003	14	No	SPO_003_014	For each vegetation management program in the 2020-2028 WMP, specify if the Quality Assurance and Quality Control assessments include verification of the height and distance to the conductor of each strike vegetation point specified for removal, and each vegetation strike point listed as an inventory tree.	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-003-014	0	No	9	Vegetation Management and Inspections	9
152	SPO	003	SPO_003	15	No	SPO_003_015	Provide PG&E's latest estimate for the number of strike trees in PG&E's HFTD with an explanation of how this estimate was obtained. Discuss PG&E's confidence in the estimate.	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-003-015	0	No	9	Vegetation Management and Inspections	9
153	MGRA	005	MGRA_005	1	No	MGRA_005_01	Follow-up to Data Request Responses: WMP-Discovery 2020-2028_DR_OEIS_001-Q022 MGRA-S-1 For the three technologies listed in PG&E's response to the OEIS data request EFD, CFA, Gridscope, please provide a per-year estimate of the deployment of these devices for 2020, 2027, and 2028 in the PF&E-HFTD. a. The number of devices to be deployed. b. The number of overhead conductors to be monitored by these technologies in the HFTD in miles. c. The functional coverage of the overhead conductor system. d. The estimated cumulative risk reduction due to the deployment of that technology.	Joseph Mitchell	4/29/2025	5/13/2025	5/13/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-005-001	0	No	10	Situational Awareness and Inspection	10.4 to 10.31
154	MGRA	005	MGRA_005	2	No	MGRA_005_02	Suppression MGRA-S-2 During a meeting of the Risk Mitigation Working Group, I recall one of the PG&E team stating that they had looked at the California ignition database to determine whether weather local conditions affected the probability of successful retail attack. a. Did PG&E ever perform an analysis similar to that described? b. If the answer is yes, please provide the results. c. In the PG&E FPI model available through a public interface? i.e. If a latitude, longitude, and time is provided can a corresponding FPI value be returned? d. If the answer is to be no, what is the approximate values of PG&E's FPI history, could it potentially be reported, and how much time (days) and effort (person-hours) would it require? e. As PG&E's FPI algorithm has changed over time, has PG&E segregated historical periods with different FPI approaches? Or has it run on its history with the most recent FPI version?	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-005-002	1	No	Appendix D	Appendix D: Areas of Continued Improvement	ACI PG&E-238-03
155	MGRA	005	MGRA_005	3	No	MGRA_005_03	Covered Conductor MGRA-S-3 In Table PG&E-8.2.1.4: COVERED CONDUCTOR AND UNDERGROUNDING IMPACTS ON THE LIKELIHOOD OF IGNITION, PG&E's analysis of Wire-to-Wire contact lists the effectiveness of Covered Conductor as medium 1 reducing this risk source, whereas other parties rank this as a high effectiveness. a. Please justify why wire-to-wire contact is only reduced to a medium outage prevention. b. Please provide examples in which wire to wire contact between covered conductors resulted in an outage and under what conditions.	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-005-003	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
156	MGRA	005	MGRA_005	4	No	MGRA_005_04	Advanced Technology MGRA-S-4 Please direct us to or provide the technical details of Gridscope. a. Please provide the differences in action and function and purpose between Gridscope and EFD.	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-005-004	0	No	10	Situational Awareness and Forecasting	10.3.1
157	MGRA	005	MGRA_005	5	No	MGRA_005_05	Weather MGRA-S-5 Provide a list of the 571 worst weather days, along with: a. geographic limits associated with the designation (polygon, counties, etc.). b. FPI. c. Diable and event classifier. d. associated catastrophic wildfires. e. any other notes or comments added by the meteorological team	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-005-005	3	No	Appendix D	Appendix D: Areas of Continued Improvement	ACI PG&E-238-03
158	OEIS	008	OEIS_008	1	No	OEIS_008_01	Regarding PIPS input in response to data request OEIS-WMP-2025-PG&E-003, Question 3, PG&E states that "the criteria for determining whether a circuit protection zone is affected by PIPS is binary and PG&E considers the distinction of whether there is PIPS input or not." Provide the following based on the CPZs in which there is PIPS input: a. The percentage by total circuit mileage. b. The associated total circuit mileage impacted. c. The percentage by total number of CPZs in the PF&A. d. The associated number of CPZs impacted.	Nathan Poon	4/29/2025	4/30/2025	4/30/2025	https://www.pge.com/customer/page/About/Outage-Alerts/Outage-Alerts.aspx?cid=2025-008-001	0	No	8	Grid Design, Operations, and Maintenance	8.2.1

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184	SPO	004	SPO_004	20	No	SPO_004_020	PG&E's Response to SPO-PGE/WMP2026-2028-003 Question 9 included Tables 1, 2 and 3. Provide final versions of these tables. a. Confirm that the Advice Letter PG&E referred to in response to SPO-PGE/WMP2026-003 Question 9 is not PG&E Advice 7150 E-A but is PG&E Advice 7150 E-A. b. Include the "Workshop Data" Worksheet that was used to generate Tables 1 and 2 and is required by PG&E Advice 7150 E-A. c. Include the worksheet that PG&E used to generate Table 3. d. Ensure that all of the data used in the calculation of each number by referencing the worksheets requested in Questions 20 and 20c. e. Check that all of the data used in the calculation of each number by referencing the worksheets requested in Questions 20 and 20c. f. 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-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx". Worksheet: Summary Final_WMP_Discovery a. Yes, PG&E intended to reference PG&E Advice 7150 E-A in response to SPO-PGE/WMP2026-003 Question 9. b. See attached "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx". c. Project Details and the 2026 Mitigation Table. d. WMP-Discovery2026-2028_DR_SPO_004-Q020 Page 2 e. See attached "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx". f. WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx, each calculation includes the requested formula. g. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. h. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. i. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. j. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. k. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. l. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. m. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. n. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. o. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. p. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. q. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. r. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. s. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. t. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. u. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. v. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. w. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. x. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. y. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected. z. Please note that the "WMP-Discovery2026-2028_DR_SPO_004-Q020A0101.xlsx" have been corrected.	Eddie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	1	No	0	GH-04	GH-04
185	SPO	004	SPO_004	21	No	SPO_004_021	Figure PG&E-5.2.3-1 in the 2026-2028 Base WMP presents "Outage Probability/Vegetation" as a Model. Section 1.5.2.3 Distribution Event Probability Models Version 4 (DEPM v4) Documentation is described to describing "Vegetation Models". Pg. 60 presents "weather-driven 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 2026-2028 Base WMP? b. How are vegetation models integrated into the calculation of probability of ignition given load? 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 contact" the lines). 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.	Eddie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.2.1
186	SPO	004	SPO_004	22	No	SPO_004_022	Provide a description of each of the aforementioned customer categories listed in Table PG&E-5.2.2-3 in the 2026-2028 Base WMP. a. The customer categories presented in Table PG&E-5.2.2-3 were derived from discussions with Customer Care and PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. b. What justification did PG&E use to establish the relative customer weightings? For example, "Extremes" had a higher weight than "Significant", but why is "Extremes" weighted 20x 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 customer categories presented in Table PG&E-5.2.2-3 were derived from discussions with Customer Care and PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. c. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. d. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. e. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. f. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. g. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. h. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. i. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. j. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. k. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. l. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. m. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. n. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. o. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. p. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. q. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. r. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. s. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. t. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. u. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. v. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. w. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. x. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. y. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories. z. PG&E's Weather Risk team as a starting point to integrate weightings into the different types of customer categories.	Eddie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.2.2.2
187	SPO	004	SPO_004	23	No	SPO_004_023	Related to Figure PG&E-5.2.2.3-1 in the 2026-2028 Base WMP, on pg. 72, PG&E states "... the two circuit segments share a common plant, FS, and that support structure (pole) asset also located in plant FS. 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 FS plant risk and half of the support structure risk to each of the circuit segments." a. Define "RADA Algorithms and Methodologies". b. If not explained in "RADA Algorithms and Methodologies" please explain: c. Why, in this example, was the risk distributed to each of the circuit segments equally? d. Are there instances where the risk is not distributed equally? e. If so, explain what those instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment. f. Provide examples from a specific circuit segment. g. If not, explain why. h. Are there instances of a plant sharing more than two circuit segments? i. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names. j. If not, explain why not.	a. Please see attachment "WMP-Discovery2026-2028_DR_SPO_004-Q023A0101.pdf" for the requested information.	Eddie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	1	No	5	Risk Methodology & Assessment	5.2.2.2
187	SPO	004	SPO_004	23(x)	Yes	SPO_004_023(x)	Related to Figure PG&E-5.2.2.3-1 in the 2026-2028 Base WMP, on pg. 72, PG&E states "... the two circuit segments share a common plant, FS, and that support structure (pole) asset also located in plant FS. 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 FS plant risk and half of the support structure risk to each of the circuit segments." a. Define "RADA Algorithms and Methodologies". b. If not explained in "RADA Algorithms and Methodologies" please explain: c. Why, in this example, was the risk distributed to each of the circuit segments equally? d. Are there instances where the risk is not distributed equally? e. If so, explain what those instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment. f. Provide examples from a specific circuit segment. g. If not, explain why. h. Are there instances of a plant sharing more than two circuit segments? i. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names. j. If not, explain why not.	b. Section 4.2 of "RADA Algorithms and Methodologies" explains circuit segment aggregation of plant and asset risk. c. RADA models 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 future event. For example, if a branch falls near a pole 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 no way to know a specific outcome until the event occurs, the risk of the event is distributed evenly to the two circuit segments as the best estimate of future risk. d. Shared plant risk is always distributed equally. There are no instances of unequal distribution. e. Risk from shared plants is always distributed equally. f. Explained in answer (d) above. g. There are many plants that are intersected by more than two circuit segments. h. Plants that are intersected by more than two circuit segments can typically be found near substations. i. An example of a plant with more than two intersecting circuit segments is Plant 4356_102B, located in Yukon. Plant 4356_102B is intersected by three circuit segments VALUEJO B 115102B VALUEJO B 115102B VALUEJO B 041502B A plant can be intersected by more than two circuit segments as demonstrated above.	Eddie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	1	No	5	Risk Methodology & Assessment	5.2.2.2
188	SPO	004	SPO_004	24	No	SPO_004_024	When discussing PSPS Risk on page 74-75 in the 2026-2028 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 (SPDS). Describe each step in the process 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 a PSPS event. b. Explain how PG&E uses each of the Model Inputs listed in Figure PG&E-5.1-3 to estimate PSPS likelihood for each individual customer service, point, ID. c. Page 68 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: d. How does PG&E estimate the severity of an expected weather period to which a customer is expected to be de-energized? e. How does PG&E come up with the estimate that a plant and restoration typically take 11 hours? f. Why does 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 (SPDS) 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. D, only, T, only, D&T). Additionally, a customer weighting is applied to prioritize customers at higher risk. Essentially, there is a list for each historical customer event, and that can be aggregated to the granularity of a customer, location, zone, CPC, or circuit. c. Yes, the values associated with weather, switching and restoration measured in Customer Minutes Interrupted (CMI) are added together. d. PG&E estimates severity through PG&E's Meteorology models and historic weather events. This is a historical average over a few years. 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. For PG&E's data used 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 past PSPS events, they were 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 Place (TP), which overstates the average restoration time for most customers. So, using it would misrepresent the typical customer experience.	Eddie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	0	No	7	Public Safety Power Shutoff	7
189	SPO	004	SPO_004	25	No	SPO_004_025	In its description of CoRe on page 58 in the 2026-2028 Base WMP, PG&E states "Our perspective is that the Burn Probability is a deterministic assessment of local conditions at the time of ignition event rather than a probabilistic outcome. There is no mention of Burn Probability in the Weather Consequence Model Version 4 (WFCM v4) Documentation. Provide a step-by-step description of PG&E's deterministic assessment of Burn Probability. a. If PG&E's deterministic assessment of Burn Probability is conducted with SME judgment, list the criteria SMEs are required to consider in their assessment. b. If PG&E's deterministic assessment of Burn Probability is conducted with SME judgment, explain how many SMEs participated in an estimation of Burn Probability based on the local conditions for each circuit segment.	Clarification of the terminology used in the documentation. Those paragraphs are intended to link the terminology used in the WMP guidelines to the terminology used by the WFC modeling team. In the WMP guidelines, Burn Probability is the frequency with which a fire reaches a given location over a range of different conditions. For the WFC-v4, the range of conditions used are the event weather data approximately 30 days (year), determined by the meteorology department, for 2012-2022 and the outcomes of each of the weather conditions are evaluated as Technology and/or weather conditions. Given the conditions of a specific weather day, the fire simulations are deterministic, which is why the description can be term "deterministic" even though a variety of conditions are used. When conditions are captured across all the weather days, the WFC ultimately needs to assign weights to the ignition location based on the weather conditions, the area burned, structure, height, and flame length and rate of spread for each simulation (calculated based on conditions within the horizon) are assigned to the originating location for each weather day. For that reason, the actual "burn probability" values for locations reached by fires are not directly used in the WFC calculations and are therefore not called out by name in the documentation. a. Not applicable based on the explanation above. b. Not applicable based on the explanation above.	Eddie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4
190	SPO	004	SPO_004	26	No	SPO_004_026	What steps has PG&E taken to archive any data or models related to WDRM v3? a. Have any aspects of WDRM v3 not been archived? If so, explain why they were not archived. b. If any aspects of WDRM v3 were not archived, what steps has PG&E taken to ensure that data analysis using WDRM v3 in the future? c. How long will PG&E maintain its archive of the data or models related to WDRM v3? d. What data is PG&E maintaining of its previous asset data? What data would be missing if PG&E wanted to backload the risk in pre-2023 years using WDRM v4? How is PG&E working to ensure that future models have the data necessary to backload the risk to current system configurations?	a. WDRM v3 has been archived. The WDRM version archive includes all source data, model code, and output data. b. All aspects of WDRM v3 have been archived and will be available for future model requests. c. Currently, WDRM v3 has been archived indefinitely. However, as additional WDRM versions are produced for future WMPs, PG&E may adopt an end-of-life policy to archive older versions of WDRM v3. PG&E will maintain a policy to deprecate older model versions once all mitigation project work supported by a version has been completed or cancelled. d. Pursuant to agreement with SPO, PG&E will respond to this subpart by May 13, 2025.	Eddie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.pge.com/customers/pge/docs/outagealerts-and-advice/outage-proceedings-and-appeals/2026-2028-SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4

190	SPO	004	SPO_004	26(a)	Yes	SPO_004_026(a)	Asset history is not currently tracked in PG&E's GIS database. Historical asset data can be accessed through manually archived GIS database backups. Note that historical backups don't include future data quality improvements. As detailed for WORM v4 for subpart (a) and (b), WORM v4 source data, model code, and output data has been archived infrequently. In addition, GIS configuration data going forward from January 1, 2023 only, has been synchronized and archived monthly. What data would be missing if PG&E wanted to backload the risk in pre-2023 years using WORM v4? PG&E is assessing "backload the risk" means taking a version of the WORM aligned around a specific configuration of the system (e.g. Jan. 1, 2023 for WORM v4) and re-aggregating the risk to a configuration of the system representing a prior date. WMP-Discovery 2026-2028_DR_SPO_004-Q2026(spo01) Page 2 Primarily, the assignment of asset model risk to critical segments would be missing prior to Jan. 1, 2023. Additionally, there would be other missing data when backloading to a previous critical segment model risk. The distribution system is continuously changing; critical segments are reconfigured, added, and deleted. GIS location data errors are corrected, exposures are updated, etc. All these accumulated changes will result in a mismatch with grid configuration data from the January 1, 2023 snapshot used to generate WORM v4. The further a backload date is from the original snapshot, the more severe the mismatches will become. For each element, the likelihood that the WORM v4 would be unable to produce a risk value for a given asset or location increases. In turn, the aggregated risk value for any given critical segment would likely be underrepresented, as any missing unclassified risk values would be assumed to be zero. How is PG&E working to ensure that future models have the data necessary to backload the risk to current system configurations? PG&E is archiving monthly snapshots of data related to WORM v4 to enable re-creating historical configurations of the system. However, many of the issues mentioned previously around the risk data becoming risk over time will still be true, even when a historical configuration can be created. Additionally, it's challenging to foresee what data would be required in a future model release to include historical	Eddie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	5	Risk Methodology & Assessment	5.4
191	SPO	004	SPO_004	27	No	SPO_004_027	List all 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 2026-2028 Base WMP. a. How are these feasibility constraints operationalized within these decision trees? b. How are these feasibility constraints qualified? c. How are these feasibility constraints addressed in PG&E's Cost Benefit Analysis?	Eddie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
192	SPO	004	SPO_004	28	No	SPO_004_028	On page 124 in the 2026-2028 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 Rate Case. Explain which mitigations discussed in the 2026-2028 WMP will not be recommended in light of this order. Explain how and why risk tolerance was used as a justification for selecting those mitigation strategies. 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 2026-2028 Base WMP. Explain how these three decision trees will change in light of the ALJ Ruling. Explain any other decision-making procedures, protocols, tool or other approach when a treatment of risk tolerance was integrated into PG&E's mitigation selection process. Explain how these approaches will change in light of the ALJ Ruling.	Eddie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	5	Risk Methodology & Assessment	5
193	SPO	004	SPO_004	29	No	SPO_004_029	Provide a detailed explanation of how PG&E addresses tail risk in its risk models presented in the 2026-2028 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?	Eddie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	5	Risk Methodology & Assessment	5.4
194	SPO	004	SPO_004	30	No	SPO_004_030	Provide a detailed explanation of how PG&E applies the risk scaling function in its risk models presented in the 2026-2028 Base WMP? a. Is the risk scaling function applied to the GCRF? 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?	Eddie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	5	Risk Methodology & Assessment	5.4
195	SPO	004	SPO_004	31	No	SPO_004_031	On page 124 in the 2026-2028 Base WMP, PG&E states "PG&E's Investment Planning group leverages the CBRs and the RPF to prioritize the proposed investments to achieve risk reduction at a reasonable cost as part of its GRC forecast." a. How does PG&E leverage CBRs to prioritize investments in risk reduction? Explain. b. List which non-CBR aspects of the RPF PG&E leverages to prioritize investments in risk reduction. c. Explain how PG&E averages those non-CBR aspects of the RPF to prioritize investments in risk reduction. d. Define "reasonable cost." Explain how PG&E incorporates "reasonable cost" as a constraint in its risk models.	Eddie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/sgp/docs/outreach-worm-backload-2026-spo_004.pdf	0	No	3	Overview of WMP	3.6

196	SPO	004	SPO_004	32	No	SPO_004_032	On page 125 in the 2026-2028 Base WMP, PG&E explains that RME Adjustment 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 kinds of information that is created at these cross-functional working groups. i. How are these documents or other kinds of information related? ii. Provide an example of each type of document or other kinds of information that was generated by the cross-functional working groups when selecting mitigations on circuit segment CORNING 11018152. iii. Do the working groups evaluate every asset within a circuit segment to determine which mitigation should be implemented? iv. If so, explain how this is done. v. If not, explain why not. c. List the inputs the SME's review to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment. d. Explain how the SME's use each of those inputs to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.	Edie Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/ops/2026/2028/2026-2028-Base-WMP-Appendix-A-Enforcement-KMZ-A-Supporting-Documents	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
197	SPO	004	SPO_004	33	No	SPO_004_033	On page 125 in the 2026-2028 Base WMP, PG&E explains that the cross-functional working groups leverage 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. i. Provide an example. Explain how and why each of these qualitative operational insights is relevant to the decision-making process. ii. Describe how each of these qualitative operational insights are integrated into 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 2026-2028 Base WMP. iii. Which of the steps in the decision-trees reviews these qualitative operational insights? How is that performed?	Edie Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/ops/2026/2028/2026-2028-Base-WMP-Appendix-A-Enforcement-KMZ-A-Supporting-Documents	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
198	SPO	004	SPO_004	34	No	SPO_004_034	On page 125 in the 2026-2028 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. Were any other factors considered in this process but removed from the final list? If so, 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 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 2026-2028 Base WMP. f. Which of the steps in the decision-trees reviews these local factors? How is that performed?	Edie Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/ops/2026/2028/2026-2028-Base-WMP-Appendix-A-Enforcement-KMZ-A-Supporting-Documents	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
199	SPO	004	SPO_004	35	No	SPO_004_035	On page 132 in the 2026-2028 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 LURE 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?	Edie Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/ops/2026/2028/2026-2028-Base-WMP-Appendix-A-Enforcement-KMZ-A-Supporting-Documents	0	No	5	Risk Methodology & Assessment	5.5.2
200	SPO	004	SPO_004	36	No	SPO_004_036	Throughout the 2026-2028 Base WMP, PG&E uses the terms system hardening, grid hardening, and readiness 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 this category of mitigations. a. Are there differences between these terms? If so, explain.	Edie Schmitt	4/30/2025	5/8/2025	5/8/2025	https://www.pge.com/assets/ops/2026/2028/2026-2028-Base-WMP-Appendix-A-Enforcement-KMZ-A-Supporting-Documents	0	No	8	Grid Design, Operations, and Maintenance	8

201	SPO	004	SPO_004	37	No	SPO_004_037	On page 135 in the 2026-2028 Base WMP, PG&E states "Over time, undergrounding also has lower operations and maintenance expenses." Provide documentation that corroborates this statement. a. What is the time scale of the analysis that led to this statement? Why was the time scale used? b. How would the results of the analysis be different if an alternative time scale was used? Consider the possible results of the analysis if the following time scales were used: 1. Annual 2. Decadal 3. Multi-decadal (this must include the decommissioning and replacement costs)	a. The response was the "low" value, i.e., the expected costs on average over multiple years. In our response, we address two possible interpretations: (1) the timeframes of the data used to develop the analysis and (2) the timeframes associated with the application of the results of the analysis. 1) The average annual cost considered between 1 to 5 years of historical or forecast data for the CBM activity. The timeframes considered in the underlying data vary due to the availability of data for each of the CBM cost types (e.g., some cost types leverage yearly historical costs, whereas other cost types are based on the 2023-2028 GRC forecast). Underpinning our relative scores of CBM costs, such as routine maintenance, vegetation management costs, patrolling and inspection, Enhanced Power System Safety Settings (EPSS) and Public Safety Power Shutoffs (PSPS). 2) The time scale of the analysis that led to this statement is one year. This statement is based on an expected average annual cost per mile for operations and maintenance (O&M) activities. The assumption is that the average annual cost per mile would be applicable for the useful life of the asset (i.e., 50 years for undergrounding). Please see "WMP-Discovery2026-2028_DR_SPO_004-Q037A001.xlsx", which contains examples of expected CBM costs on average annual cost for a mile of undergrounding primary lines compared to an unforced baseline scenario. The lower operations and maintenance costs are assumed to be relative to a hypothetical baseline assumption for the cost of operations and maintenance for an unforced mile in the current system. If more of the system is undergrounded, the average annual avoided costs will increase. This cumulative effect leads to long-term benefits. Further information on the cost assumptions and underlying data will be included in the final Wildlife Benefit Cost Analysis (WSCA). b. The total CBM avoided costs are not affected by the time period considered. 1. It is assumed that any avoided costs are on an average annual cost per mile basis and would not be significantly impacted by the time-scale considered. 2. It is assumed that any avoided costs are on an average annual cost per mile basis and would not be significantly impacted by the time-scale considered. 3. It is assumed that any avoided costs are on an average annual cost per mile basis and would not be significantly impacted by the time-scale considered.	Edie Schmitt	4/30/2025	5/9/2025	5/9/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
202	SPO	004	SPO_004	38	No	SPO_004_038	On page 136 in the 2026-2028 Base WMP, PG&E states "For many of the mitigation programs, wildfire risk is the primary driver of prioritization." List the mitigation programs where wildfire risk is not the primary driver of prioritization. a. For each mitigation program in the list, explain what is the primary driver of prioritization and why.	Wildfire risk is a primary driver of prioritization for all of PG&E's mitigation programs. On page 136 of the 2026-2028 Base WMP, PG&E explains that it may also consider reliability risk when prioritizing mitigation programs pursuant to the requirements of Senate Bill 888. As such, certain mitigation programs may have reliability risk as a driver for prioritization as well as wildfire risk, but these are not the primary driver of prioritization. Further information on the cost assumptions and underlying data will be included in the final Wildlife Benefit Cost Analysis (WSCA). Please see, for example, Tables 5-5 in the 2026-2028 Base WMP and the column titled "Top Risk Contributors."	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	0	No	5	Risk Methodology & Assessment	5
203	SPO	004	SPO_004	39	No	SPO_004_039	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity-Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost-Benefit Ratios. a. Provide the Cost-Benefit Ratios for each of these activities as is required by D.2.2-15.027. b. If these calculations of CBR vary from what was submitted in PG&E's 2024 RAMP Application, explain how much they vary and why. c. Complete Table 6-3 for all activities listed in this WMP. Add the Initiative Activity Tracking (IAT) as a column in the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.	a. The following table uses 2026-2028 program Cost-Benefit Ratios (CBRs) values (unless otherwise noted) from the enterprise risk models and investment planning forecasts to be submitted as part of our May 2027 GRC filing. The two transmission programs (conductor segment replacement and short splice installation) cost-benefit scores are currently unavailable and will be provided later. b. The table below compares the RAMP CBRs and CBRs provided in subject (a). The original CBRs submitted in Table 6-3 are based on February vintage GRC borders and analysis that was available at the time of the 2026-2028 WMP filing. The values provided in subject (a) are from PG&E's finalized borders and analysis to be submitted in our May filing of the 2027 GRC using Baseline 2024. A brief description on the various drivers are described below: c. Reduction driven by higher percentage of pole work that has a lower CBR value when compared to non-pole capital and expense projects d. New program for 2027 GRC e. Increase driven by a lower estimated unit cost of work and refreshed outage to ignition ratios when compared to RAMP filing f. Risk Reduction from RAMP to GRC is lower while costs remained relatively the same g. Increase driven by the evolution of secondary and service mile scope h. Reduction driven by the increase in allocated costs tied to PSPS i. Reduction driven by lower EPSS effectiveness	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	0	No	6	Wildfire Mitigation Strategy Development	6
203	SPO	004	SPO_004	39a	Yes	SPO_004_039a	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity-Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost-Benefit Ratios. a. Provide the Cost-Benefit Ratios for each of these activities as is required by D.2.2-15.027. b. If these calculations of CBR vary from what was submitted in PG&E's 2024 RAMP Application, explain how much they vary and why. c. Complete Table 6-3 for all activities listed in this WMP. Add the Initiative Activity Tracking (IAT) as a column in the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.	a. This table has been updated to include the two transmission programs (conductor segment replacement and short splice installation) cost-benefit scores. Additionally, the PSPS and EPSS CBRs were updated as an error was noted in the original submission. WMP activity name Cost-Benefit Score - Overall Risk (2026-2028) Cost-Benefit Score - Wildfire Risk (2026-2028) Cost-Benefit Score - Outage Program Risk (2026-2028) PSPS (2027-2030 CBR) 25.3 41.5 16.2 EPSS (2027-2030 CBR) 3.8 38.1 4.3 WMP activity name Cost-Benefit Score - Overall Risk (2026-2028) Cost-Benefit Score - Wildfire Risk (2026-2028) Cost-Benefit Score - Outage Program Risk (2026-2028) Transmission - Short Splice Installation 36.43 28.36 2.07 Transmission - Conductor Segment Replacement 5.43 3.83 1.5	Edie Schmitt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	0	No	6	Wildfire Mitigation Strategy Development	6
204	SPO	004	SPO_004	40	No	SPO_004_040	On page 152 in the 2026-2028 Base WMP, PG&E provides an explanation for how it calculated Activity Effectiveness - Overall Utility Risk. The total value for Wildlife Risk (Dx, Tx, Sub) is \$15.424 million. Explain why this value is different from the \$15.578 million reported in Figure 6.1.3.2-1. a. Explain why the PSPS and EPSS values here are presented as "Risk" but in Figure 6.1.3.2-1 these values are referred to as "Consequence". b. Explain why the value of Wildlife Risk (Dx, Tx, Sub) is different, but the values for PSPS and EPSS Risk on page 152 remain exactly the same as the values for PSPS and EPSS Consequence in Figure 6.1.3.2-1.	The value expressed in Figure 6.1.3.2-1 is the aggregated baseline risk value and includes underground. This is why the sum of the Dx, Tx, and Sub Wildlife Risk differs on page 152 from Figure 6.1.3.2-1. a. "Consequence" in Figure 6.1.3.2-1 means the total consequence of all risk events which represents the same value as "Risk" on page 15. This is because Risk Value is calculated as the product of Exposure, Likelihood of Risk Event (LoRE) and Consequence of Risk Event (CoRE), and as such, the events Risk and Consequence are used interchangeably from page 152 to Figure 6.1.3.2-1. b. The \$15.424 million value of Wildlife Risk (Dx, Tx, Sub) on page 152 includes overhead distribution, overhead transmission, and substation wildfire risk, whereas the \$15.578 million value in Figure 6.1.3.2-1 also includes underground wildfire risk. The values for PSPS and EPSS Risk on page 152 remain exactly the same as the values for PSPS and EPSS Consequence in Figure 6.1.3.2-1 for the reason explained in the answer to subject (a) above.	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
205	SPO	004	SPO_004	41	No	SPO_004_041	On page 153 in the 2026-2028 Base WMP, PG&E describes the Activity Effectiveness - Wildlife Risk calculation and notes that a study was conducted with subject matter expert (SME) who were asked to "fill out a questionnaire about the effectiveness of these activities against roughly 2,000 failure modes". a. How many SMEs participated in this study? b. Provide a list of the expertise for each SME that participated in this study. c. How does the questionnaire compare with the mitigation-effectiveness study submitted to SPO as "WMP-Discovery2026-2028_DR_SPO_001-Q01A001"? d. Provide a narrative explanation of the questionnaire and how SMEs were expected to fill it out. e. Describe what is meant by categorical level of effectiveness. f. If a scale was used for SMEs to respond to the questionnaire, provide a detailed explanation of that scale and how it was established. g. If a scale was used, was a variance and standard deviation calculated for the SME responses to each failure mode? If so, provide a table that displays the mean, variance and standard deviation for the SMEs scaled responses to each of the failure modes. h. Provide a copy of the questionnaire about the effectiveness of these activities against the failure modes. i. Provide a copy of the results of the study PG&E notes on page 153 in the 2026-2028 Base WMP.	a. Approximately 7 subject matter expert (SME) participants in the study. b. The SMEs are Senior Electric Distribution Engineers whose position requires a Bachelor of Science in Electrical Engineering from a college or university accredited by the Accreditation Board of Engineering and Technology. The Senior Electric Distribution Engineers have a minimum of 8 years' experience in engineering and design. Some of the Grid Design Engineers are former professional engineers with the state of California though this license was not required for the completion of the study. c. The mitigation effectiveness study submitted to SPO as "WMP-Discovery2026-2028_DR_SPO_001-Q01A001" and are the outputs from the mitigation effectiveness study. SMEs were asked to provide an estimated level of effectiveness for each mitigation activity considering various combinations of outage cause, supplemental causes, equipment affected, and equipment condition. d. The questionnaire listed observed combinations of outage cause, supplemental causes, equipment affected, and equipment condition. For each combination, and for the mitigation activity, SMEs were asked to provide a level of effectiveness such as "None," "Medium," or "High." e. Table PG&E 6.1.3.2-1 in PG&E's 2026-2028 WMP is an example of this analysis. f. Categorical level of effectiveness refers to a qualitative description of the estimated mitigation effectiveness of an activity against an outage cause and its combinations of the cause, supplemental causes, equipment affected, and equipment condition that have been observed and/or historic outcomes. g. The scale used by SMEs to respond to the questionnaire is described in PG&E's 2026-2028 Base WMP (pages 148-160). h. At 100 percent effective - Assumes no ignition events. i. Very High: 80 percent effective - Assumes the mitigation addresses most ignition concerns, but still leaves a potential for ignition. j. High: 70 percent effective - Assumes the mitigation provides significant ignition reduction; however, there is still a chance for contact or failure. k. Medium: High: 60 percent effective - More than half ignition reduction for an event. l. Medium: 40 percent effective - Less probable ignition reduction for an event.	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/docs/outagehelp_and_safety/vegetationmanagementandwildlifewildlife2026-2028_spo_004.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3

206	SPO	004	SPO_004	42	No	SPO_004_042	Related to the explanation of the Cost Benefit Ratios described on pages 154-155 in the 2008-2020 Base WMP, provide an explanation of how PG&E addressed "discounting of inflation" in that PG&E set a discount rate scenario specified in 20-04-05-047. If an explain which scenario and why that was chosen. If not, explain why not. Also explain how PG&E addressed discounting and why it chose that method.	PG&E addressed "discounting of inflation" by discounting values by a real discount rate in its present value evaluations. In these evaluations, the effects of inflation are incorporated by multiplying values by the inflation rate to obtain nominal future values before discounting by the nominal discount rate over the applicable timeframe to obtain the present value. The effective multiplier resulting from these operations is equivalent to discounting by a real discount rate evaluated as: $\frac{1}{1+i} = \frac{1}{1+r} \cdot \frac{1}{1+f}$ where: r = the real discount rate f = the nominal discount rate and i = the inflation rate PG&E used the Two-Tiered ARWBY Cost of Capital (ATWACC) ARWBY nominal discount rate for discounting in present value evaluations which corresponds to the "ATWACC Discount Rate Scenario" in 20-04-05-047. The Two-Tiered ARWBY nominal discount rate is in alignment with PG&E's current Enterprise Risk Model evaluations, which similarly use the ATWACC rounded the nearest 50 basis points (or 0.5 percent) as the nominal discount rate. PG&E chose to use ATWACC because it reflects PG&E's financing costs, and also believes that it is also a proper discount rate for the benefits in the numerator as well as costs in the denominator because benefits WMP-Discovery 2008-2008, DR, SPO_004-Q042 Page 2 were measured based on willingness to pay (willingly), market replacement costs (financial, gas reliability), or both (electric reliability).	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	3	Overview of WMP	3.6
207	TURN	004	TURN_004	1	No	TURN_004_01	Regarding Table 5-6 on page 103 and PG&E's risk prioritization, why doesn't PG&E prioritize circuit by risk per mile rather than absolute risk? Does PG&E agree that risk per mile of each CPZ is a more accurate way to capture the risk of each CPZ relative to each other? Please explain why or why not.	Table 5-6 is a list of CPZs with the highest overall utility risk in PG&E's service territory; however, PG&E does not prioritize work based on this table. PG&E typically prioritizes work based on the normalized risk, or risk per mile. PG&E agrees that risk per mile is a more accurate metric than total risk to compare the relative risk of each CPZ. Historically, PG&E has emphasized wildfire risk per mile, or per grid in some versions of the WORM, but also recognizes the importance of overall utility risk per mile.	A Mielele Fab-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	5	Risk Methodology & Assessment	5
208	TURN	004	TURN_004	2	No	TURN_004_02	Regarding Table 6.1.3-1 on page 128: a. Why does the removal with remote grid result in 98% effectiveness? Are all overhead lines removed in each of these iterations or are lines undergrounded? Please provide an explanation using an example project to illustrate the mitigation effectiveness. b. Please provide the combined mitigation effectiveness of PPSR and EPSS. c. Please provide all supporting calculations/assumptions in Excel.	Regarding Table 6.1.3-1 on page 128: a. Remote grid systems typically serve customers through low voltage overhead lines. While all high voltage overhead lines are removed, the analysis for this mitigation assumed that the remaining secondary and service lines still pose an ignition risk, resulting in approximately 98% reduction of the overall wildfire risk. The absolute removal of all lines, including both primary and secondary voltage, would result in the elimination of all ignition risk, or 100% effectiveness, since no source for ignition would be present. b. Based on Table 6.1.3-1 on page 128 and WMP-Discovery 2008-2008, DR, TURN_004-Q054-001, the PPSR effectiveness is estimated to be 98%. c. The combined effectiveness of PPSR and EPSS effectiveness is estimated to be 99%. Effectiveness represents the probability that a program successfully mitigates a risk. The ineffectiveness is the chance that the program does not mitigate the risk. When programs operate independently, the chance that both programs do not mitigate the risk is the product of their individual ineffectiveness. The combined effectiveness of two independent mitigation programs is then the chance that at least one of the programs mitigates the risk, which is the same as the complement of both programs being ineffective. Therefore, the combined effectiveness is approximately 99%. The supporting calculations are provided in the "WMP-Discovery 2008-2008, DR, TURN_004-Q054-001" tab: "Combined_Effectiveness.xlsx".	A Mielele Fab-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3
209	TURN	004	TURN_004	3	No	TURN_004_03	Regarding Figure 6.1.3-1 on page 158: a. Please provide this figure in Excel with all supporting data, calculations, and assumptions. b. Please calculate this figure when implementing planned mitigations for PPSR and EPSS consequences in 2028. c. Please provide in Excel with all supporting data, calculations, and assumptions.	a. Please see the attachment "WMP-Discovery 2008-2008, DR, TURN_004-Q054-001" for the requested information. The response to subpart (a) is located in "Q053" worksheet and the response to subpart (b) is located in the "Q053" worksheet of the attachment.	A Mielele Fab-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3
210	TURN	004	TURN_004	4	No	TURN_004_04	Section 8.2.1.2, page 159 states "The total number of miles within the PPSR and EPSS is 4,250 circuit miles." a. Should the total number of circuit miles be closer to 25,000? b. Please explain the 4,250 figure and what it represents.	To clarify, the quoted language on page 159 of the WMP is part of Energy Safety's prompt for this section and was provided by Energy Safety in the WMP. The response to subpart (a) is located in the "Q053" worksheet of the attachment. The response to subpart (b) is located in the "Q053" worksheet of the attachment.	A Mielele Fab-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.2
211	TURN	004	TURN_004	5	No	TURN_004_05	Section 8.2.1.2, page 159 states "PG&E will analyze the proposed CC route to determine if there are areas with low strike risk or locations that could be subject to ingress/egress issues." a. Please explain "low strike risk." b. If "tree strike risk" is found to be present, does this mean the CC is at risk? Please explain. c. Please define ingress/egress issues as used here.	Section 8.2.1.2, page 159 states "PG&E will analyze the proposed CC route to determine if there are areas with low strike risk or locations that could be subject to ingress/egress issues." a. Please explain "low strike risk." b. If "tree strike risk" is found to be present, does this mean the CC is at risk? Please explain. c. Please define ingress/egress issues as used here.	A Mielele Fab-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
212	TURN	004	TURN_004	6	No	TURN_004_06	Regarding PG&E's System Hardening Project Process Decision Tree and Process Figures 8.2.1-1, 8.2.1-2, and 8.2.1-3 on pages 163-164: a. Does PG&E utilize project-specific wind costs for CC and LDC as opposed to generic averages? Please explain.	Section 8.2.1.2, page 159 states "PG&E will analyze the proposed CC route to determine if there are areas with low strike risk or locations that could be subject to ingress/egress issues." a. Please explain "low strike risk." b. If "tree strike risk" is found to be present, does this mean the CC is at risk? Please explain. c. Please define ingress/egress issues as used here.	A Mielele Fab-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
213	TURN	004	TURN_004	7	No	TURN_004_07	Regarding Table 8.2.1-2 on page 180, please explain whether mitigation effectiveness is calculated based on SME judgment. In each case where SME judgment is used, please explain why PG&E does not utilize iteration methods to calculate mitigation effectiveness.	All effectiveness ratings in Table 8.2.1-2 are calculated based on SME review. These ratings are used in combination with available outage data (in a priority for ignitions) to estimate mitigation effectiveness. The SME-based approach allows PG&E to calculate a realistic effectiveness estimate based on limited mitigation-specific outage data. Relying entirely on a data-based approach to calculate effectiveness for these mitigations would not yield meaningful results. For example, as detailed in "WMP-Discovery 2008-2008, DR, TURN_004-Q054-001" and "WMP-Discovery 2008-2008, DR, TURN_004-Q054-001", observed ignition data is only limited for rural system hardening mitigations. Only three reportable ignitions have been observed on covered conductors since its final application in 2018. As a result, PG&E's covered conductor isolation has also been in wildfire rebuild areas (in burned areas with limited vegetation growth) or potentially isolated areas of low tree strike risk in alignment with PG&E's decision tree. Furthermore, limited observation of effectiveness estimates. For all of these reasons, it is necessary to rely on SME input to inform these effectiveness estimates. Another potential issue with purely data-driven calculation methods, is the overlap between mitigations deployed simultaneously. For example, EPSS and covered conductor can be complementary mitigations, but using only observed data, it is difficult to illustrate their effectiveness contributions, or even identify a statistically valid data sample where these mitigations were concurrently operational. The SME-based analysis allows PG&E's experts to apply their knowledge and experience to assess these scenarios despite the limited deployment of these mitigations. WMP-Discovery 2008-2008, DR, TURN_004-Q057 Page 2 Finally, the actual application of the effectiveness values referenced in Table 8.2.1-2 is multi-layered, derived from data-driven observations and used in PG&E's system of record. This allows PG&E to calculate specific mitigation effectiveness values for each individual circuit segment and ultimately yields a hybrid, SME-informed, data-driven result.	A Mielele Fab-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/yourorg/docs/outage-and-safety/energy-environment-and-sustainability/2025-2028-2030-004.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1

232	GPI	001	GPI_001	1	No	GPI_001_01	(1.) Please provide documentation detailing the MAUV 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 (at p. 8). (1.2) In regard to wildfire-consequence-model-documentation-v4.pdf, please clarify whether the reported "MAUV" values (e.g. at p. 18, Table B) and "consequence values using the MAUV function (e.g. at p. 20)" are reported in standard units (e.g., $\times 1$ versus 10^3) or cost normalized units at the rate of "\$1M per risk-adjusted 2023 dollars per unit of MAUV" (e.g., $\times 1$ VS $\times 1$ versus 10^3 VS 10^6).	4. For the requested information, please refer to PG&E's 2024 RAMP Report (https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report), Chapter 3, Section C: Cost Benefit Approach, starting from page 2.3 through 2.27. MAUV in WFC v4 used earlier versions of PG&E's 2024 RAMP CBA, with slight differences in the reported value of safety and reliability. The non-linear scaling is described in pages 2.19 through 2.27 of the RAMP Report. 5. MAUV values are in millions risk-adjusted 2023 dollars.	Zoe Herold	5/9/2025	5/14/2025	5/14/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	5	Risk Methodology & Assessment	5.4
233	GPI	001	GPI_001	2(a)	Yes	GPI_001_02(a)	WFC model questions: (2.1) In OESB, DR, O&A, O&EIS asked (a.ii) "How many "worst weather days" are included within the set used for WFC?" PG&E responded: "PG&E includes 571 worst weather days from March 2020 to Dec 2020". Of the total 571 worst weather days modeled with 24-h Technosys fire spread simulations, how many simulations are included in the specification of each CURE point? If a subset of the 571 worst weather day simulations are applied in the WFC for each CURE point, what is the basis for selecting whether a Technosys event weather day 24-h simulation is used as a WFC input to calculate CURE for a given point? (2.2) Confirm that the only outputs from 24-h Technosys fire spread simulations input into the WFC to determine greater CURE values are Flame Length and Rate of Spread. If other fire spread simulation outputs (e.g., acreage, buildings destroyed, etc.) are included in any aspect of the WFC and final CURE valuation, please list them and describe the methods used. (2.3) Is it our understanding that PG&E previously calibrated Technosys simulation Flame Length and Rate of Spread "Destructive Fire" thresholds based on 8-h simulation (PG&E 2023-2025 WMP, p. 175)? Did PG&E analyze the relationship between 24-h Technosys simulation Flame Length and Rate of Spread and its related "Predicted Destructive Potential" (based fire classifications)? If so, provide the calibration results. (2.4) PG&E utilizes its use of 24-h versus 8-h Technosys simulations based on the correlation between simulated historical fires versus actual acres burned (wildfire-consequence-model-documentation-v4.pdf, p. 13). Does PG&E complete a similar assessment for simulated historical fires versus actual buildings destroyed? If so, please provide the results. Does PG&E apply the simulated acres burned from 24-h Technosys simulations in any of its risk quantification models? (2.5) FFR outputs are an input to the WFC Model. FFR fuel data is sourced from Technosys and is reported as being updated annually (PG&E 2020-2028 WMP, vol. 1, p. 470). Please clarify if a 2030 fuels layer was used as an input to generate the background FFR values (background fuels) for WFC for the 2023-2025 WMP. If so, please provide the background FFR values.	4. 1. The 4-h WFC model requires all inputs for a point to be present to characterize expected consequences at a point. The temporal overlap between Technosys simulations and the FFR model background data used as WFC v4 inputs spans 2012 through 2023. Therefore all "worst weather days" spanning 2012-2023, 2012 days, were used. 2. Please see the response to subpart (i) above. The temporal overlap between Technosys simulations and the FFR model background data determined the data used. 3. We confirm that flame length and rate of spread are the only fire simulation characteristics used as inputs to the WFC. 4. 1. Yes, PG&E confirmed the same thresholds were valid for both 8 and 24 hour simulations. Because the flame length and rate of spread values used are the maximum values observed during the simulation interval, in many cases they are unchanged between 8 and 24-hour simulations. Even when the 24-hour simulation increased one or both values, the same thresholds were found necessary to achieve "the result" of historically destructive fires. 2. The validation on page 13 confirms that the acres burned after 24 hours of simulation better correlate with final acres of historical fires than their 8-hour counterparts, but only after burning the data. For structures destroyed, there is poor correlation. Please note that the acres burned correlation was only clear when the results were thinned and averaged. The vast majority of fires do not destroy any structures, so there are fewer fires to aggregate into, thus, resulting in inherently noisier relationships. Additionally, the Technosys wildfire simulation engine does not currently treat buildings as fuels, with structures reported based on the footprint without accounting for the contribution of structure fire itself. However, fires with the greatest number of structures destroyed better correlate to structures destroyed in the background FFR. 5. 1. PG&E's background fuels were used as input to the background FFR for the WFC. Specifically, a pre-fire fuels snapshot was created for years 2012-2020. In spring 2021, snapshot was used for 2021, and a spring 2022 snapshot for 2022.	Zoe Herold	5/9/2025	5/20/2025	5/20/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	5	Risk Methodology & Assessment	5.4
233	GPI	001	GPI_001	2	No	GPI_001_02	(1.) In OESB, DR, O&A, O&EIS asked (a.ii) "How many "worst weather days" are included within the set used for WFC?" PG&E responded: "PG&E includes 571 worst weather days from March 2020 to Dec 2020".	4. 1. The 4-h WFC model requires all inputs for a point to be present to characterize expected consequences at a point. The temporal overlap between Technosys simulations and the FFR model background data used as WFC v4 inputs spans 2012 through 2023. Therefore all "worst weather days" spanning 2012-2023, 2012 days, were used. 2. Please see the response to subpart (i) above. The temporal overlap between Technosys simulations and the FFR model background data determined the data used. 3. We confirm that flame length and rate of spread are the only fire simulation characteristics used as inputs to the WFC. 4. 1. Yes, PG&E confirmed the same thresholds were valid for both 8 and 24 hour simulations. Because the flame length and rate of spread values used are the maximum values observed during the simulation interval, in many cases they are unchanged between 8 and 24-hour simulations. Even when the 24-hour simulation increased one or both values, the same thresholds were found necessary to achieve "the result" of historically destructive fires. 2. The validation on page 13 confirms that the acres burned after 24 hours of simulation better correlate with final acres of historical fires than their 8-hour counterparts, but only after burning the data. For structures destroyed, there is poor correlation. Please note that the acres burned correlation was only clear when the results were thinned and averaged. The vast majority of fires do not destroy any structures, so there are fewer fires to aggregate into, thus, resulting in inherently noisier relationships. Additionally, the Technosys wildfire simulation engine does not currently treat buildings as fuels, with structures reported based on the footprint without accounting for the contribution of structure fire itself. However, fires with the greatest number of structures destroyed better correlate to structures destroyed in the background FFR. 5. 1. PG&E's background fuels were used as input to the background FFR for the WFC. Specifically, a pre-fire fuels snapshot was created for years 2012-2020. In spring 2021, snapshot was used for 2021, and a spring 2022 snapshot for 2022.	Zoe Herold	5/9/2025	5/14/2025	5/14/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	5	Risk Methodology & Assessment	5.4
234	MORA	007	MORA_007	1	No	MORA_007_01	Please provide a shapefile or geodatabase containing the Fire Index Area (FIA) used for PG&E's analysis.	Please see "WMP-Discovery2025-2028, DR, MORA, 007-0001A0101.20" for the shapefiles containing the Fire Index Area (FIA) used for PG&E's analysis explained in its response to "WMP-Discovery2025-2028, DR, MORA, 005-0005.pdf".	Joseph Mitchell	5/13/2025	5/14/2025	5/14/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	1	No	10	Situational Awareness and Forecasting	10.6
235	O&EIS	010	O&EIS_010	1	No	O&EIS_010_01	Regarding Vegetation Management Quality Control Population and Sample Unit Sizes in its response to O&EIS-RAMP, 2025-PG&E-005, PG&E states that for both Vegetation Management Quality Control Distribution Routine (VM-202) and Vegetation Management Quality Control Transmission Routine (VM-227) PG&E "selects the sample from a population of Work Packets." On page 419 of its 2028-2029 WMP, PG&E lists the Population Sample Size for VM-202 and VM-227 as "Infinite." Regarding "Full Population Stratification" on page 419 of its 2028-2029 WMP, PG&E provides information on population management personnel including time related to inspecting and auditing. Why PG&E is responsive to SPO-001 Question 21: "SPO-001 does not prohibit WMPs from further presenting the best attempt to present units planned or completed, total costs and average cost per unit for each mitigation. SPO asked PG&E adjustments to each of these three metrics according to what they believe would be the most accurate values." a. Notwithstanding exceptions discussed by PG&E in regards to GH-01, does PG&E generally	4. Work Packets are a group of inspected distribution spans and/or transmission locations created by VM Operations. Work Packets are an organizational tool to coordinate inspection efforts and do not alter the overall population of inspections requested by VM Operations. b. Since the Work Packets are created by VM Operations at the time of their inspection assignments, we do not have the total population or sample size for the future years of 2028 to 2029. c. PG&E will use the same personnel for the response to this question. d. Please note that the employee counts listed are current as of May 17, 2025. The certified employee counts for 2028 and 2029 are not yet available. e. PG&E generally agrees with SPO's methodology when it comes to expense programs as they can be reviewed in specific fiscal years for units and dollars comparison. For Capital programs, unit cost is derived from the total cost of projects that could span multiple years, and the overall completion of units, not just units completed in one fiscal year.	Nathan Poon	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	9	Vegetation Management and Inspections	9.1.2
236	O&EIS	010	O&EIS_010	2	No	O&EIS_010_02	On pages 419-421 of its 2028-2029 WMP, in Table 9-4, PG&E provides information on population management personnel including time related to inspecting and auditing. Why PG&E is responsive to SPO-001 Question 21: "SPO-001 does not prohibit WMPs from further presenting the best attempt to present units planned or completed, total costs and average cost per unit for each mitigation. SPO asked PG&E adjustments to each of these three metrics according to what they believe would be the most accurate values." a. Notwithstanding exceptions discussed by PG&E in regards to GH-01, does PG&E generally	4. Work Packets are a group of inspected distribution spans and/or transmission locations created by VM Operations. Work Packets are an organizational tool to coordinate inspection efforts and do not alter the overall population of inspections requested by VM Operations. b. Since the Work Packets are created by VM Operations at the time of their inspection assignments, we do not have the total population or sample size for the future years of 2028 to 2029. c. PG&E will use the same personnel for the response to this question. d. Please note that the employee counts listed are current as of May 17, 2025. The certified employee counts for 2028 and 2029 are not yet available. e. PG&E generally agrees with SPO's methodology when it comes to expense programs as they can be reviewed in specific fiscal years for units and dollars comparison. For Capital programs, unit cost is derived from the total cost of projects that could span multiple years, and the overall completion of units, not just units completed in one fiscal year.	Nathan Poon	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	9	Vegetation Management and Inspections	9.1.2
237	SPO	005	SPO_005	1	No	SPO_005_01	SA-02 refers to the sensors, which may include both original installation and operational expenses. As a result, SA-02 has both capital and operational expenditures. However, only the capital portion has units associated with it, so that was the relevant information provided with this request for unit costs. PG&E's narrative statement that split SA-02 into separate rows was made in error.	4. Work Packets are a group of inspected distribution spans and/or transmission locations created by VM Operations. Work Packets are an organizational tool to coordinate inspection efforts and do not alter the overall population of inspections requested by VM Operations. b. Since the Work Packets are created by VM Operations at the time of their inspection assignments, we do not have the total population or sample size for the future years of 2028 to 2029. c. PG&E will use the same personnel for the response to this question. d. Please note that the employee counts listed are current as of May 17, 2025. The certified employee counts for 2028 and 2029 are not yet available. e. PG&E generally agrees with SPO's methodology when it comes to expense programs as they can be reviewed in specific fiscal years for units and dollars comparison. For Capital programs, unit cost is derived from the total cost of projects that could span multiple years, and the overall completion of units, not just units completed in one fiscal year.	Eddie Schmitt	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	3	Overview of WMP	3.6
238	SPO	005	SPO_005	2	No	SPO_005_02	PG&E indicates that "Mitigation SA-02 includes both capital and operational expenditures. PG&E has split SA-02 to reflect separate calculations for each of capital and operational expenditures." However, PG&E's response to SPO-001 Question 21 appears to only provide the Capital portion. Is this an error?	4. Work Packets are a group of inspected distribution spans and/or transmission locations created by VM Operations. Work Packets are an organizational tool to coordinate inspection efforts and do not alter the overall population of inspections requested by VM Operations. b. Since the Work Packets are created by VM Operations at the time of their inspection assignments, we do not have the total population or sample size for the future years of 2028 to 2029. c. PG&E will use the same personnel for the response to this question. d. Please note that the employee counts listed are current as of May 17, 2025. The certified employee counts for 2028 and 2029 are not yet available. e. PG&E generally agrees with SPO's methodology when it comes to expense programs as they can be reviewed in specific fiscal years for units and dollars comparison. For Capital programs, unit cost is derived from the total cost of projects that could span multiple years, and the overall completion of units, not just units completed in one fiscal year.	Eddie Schmitt	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	3	Overview of WMP	3.6
239	SPO	005	SPO_005	3	No	SPO_005_03	For 2024, the QDR indicates that GM-03's unit of measure is "of Distribution EC Tag". PG&E's response to SPO-001 Question 21 records a percentage of 73.4%. Explain this difference in units. Why PG&E presented GM-03 as a percentage of its response to SPO-001 Question 21. PG&E states that "Costs for GM-03 are not separated but included in the Activity level." Explain the rationale and explain what PG&E input into GM-03 in the QDR in this manner? If not, explain why PG&E updated SPO-001 Question 21 in this way.	4. Work Packets are a group of inspected distribution spans and/or transmission locations created by VM Operations. Work Packets are an organizational tool to coordinate inspection efforts and do not alter the overall population of inspections requested by VM Operations. b. Since the Work Packets are created by VM Operations at the time of their inspection assignments, we do not have the total population or sample size for the future years of 2028 to 2029. c. PG&E will use the same personnel for the response to this question. d. Please note that the employee counts listed are current as of May 17, 2025. The certified employee counts for 2028 and 2029 are not yet available. e. PG&E generally agrees with SPO's methodology when it comes to expense programs as they can be reviewed in specific fiscal years for units and dollars comparison. For Capital programs, unit cost is derived from the total cost of projects that could span multiple years, and the overall completion of units, not just units completed in one fiscal year.	Eddie Schmitt	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	3	Overview of WMP	3.6
240	SPO	005	SPO_005	4	No	SPO_005_04	PG&E indicates that "Upon consultation with mitigation teams, PG&E has made corrections to the 'Total Cost' and, accordingly, 'Unit Cost' per unit of work for the following mitigations for 2023: AI-02, AI-04, AI-06, AI-08, AI-07, VM-04." a. SPO reviewed mitigations AI-02, AI-04, AI-06, AI-08, AI-07 based on the units provided in PG&E's tabular QDR (24, 2023) and the Cost Tracking Template data. As noted, PG&E has made corrections to the average cost per unit of each of these mitigations in its response to SPO-001 Question 21. For instance, for AI-07 SPO calculated a unit cost \$0.28 and PG&E calculated a unit cost of \$0.14. For each of these five mitigations, explain why PG&E's response to SPO-001 Question 21 reflects such a large variance? b. SPO presented the Total Cost for VM-04 in 2024 as \$308,050,000, which was based on PG&E's response to the Cost Tracking Template data. PG&E corrected the value to be \$26,655,330. Explain why PG&E made this correction and what data sources were used to support this correction.	4. The correction was made to the AI Mitigative listed as the costs provided previously were inclusive of both HFTD and non-HFTD work. 5. This correction was made to correct the data for the identified program. The \$308,050,000 previously provided represents the 2024 AI Cost Budget for three utility divisions: (1) VM-04 (Forecast True Inspection \$216,37M), (2) VM-04 (Forecast True Inspection \$216,37M), (3) VM-04 (Forecast True Inspection \$216,37M). 6. PG&E Supplemental Data Response to SPO_001 (SPO_005_PG&E_2024_011) QDR1010007. 7. RAMP Discovery 2025-2028, DR, SPO_005-0004 Page 2. 8. (True Removal) 9. Mitigation \$71,77M, and (3) VM-18 (M for Operational Mitigation \$26,655,330). This correction was made to report the actual \$26,655,330 2024 spend for VM-04 (True Removal Inventory). PG&E made these changes to better reflect the budget and costs of the VM-04 program.	Eddie Schmitt	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	3	Overview of WMP	3.6
241	SPO	005	SPO_005	5	No	SPO_005_05	PG&E indicates that "With regard to values for 2025, PG&E notes that the values used by SPO reflect forecasts that made in 2022. PG&E has provided updated values reflecting more current forecasts." Why are 2022 forecasts used as late as 2024 Q4? Does Energy Safety provide guidance on updating these forecasts throughout the WMP cycle? See e.g., Vol. 6 of Energy Safety guidance - "QDR 2." a. For each 2025 forecast that PG&E updated in its response to SPO-001 Question 1, but what data sources were used to support this correction.	4. PG&E has planned to provide an updated 2025 forecast in the Q1 2025 QDR, however, with the elimination of the forecast table in the new quarterly template, PG&E did not provide an updated table 11 with forecasted forecast. For the guidelines and templates from Energy Safety, 2025 forecasts were not required.	Eddie Schmitt	5/13/2025	5/16/2025	5/16/2025	https://www.sfpd.ca.gov/media/qa-and-answers/district-safety-policy/district-safety-policy-application-report/2024-RAMP-Report	0	No	3	Overview of WMP	3.6

244	SPO	006	SPO_006	2	No	SPO_006_02	Following up on PG&E's response to WMP-Discovery2025-2028_DR_MGRIA_005 Question 4, provide a technical report that explains the following topics related to Gridscope: a. Description and specifications of the sensors used in Gridscope b. Description of how Gridscope sensors provide real-time monitoring to enhance grid reliability and safety. c. Description of how the performance data collected by Gridscope is used to manage outages in real-time. d. Description of how the performance data collected by Gridscope is used to plan future reliability programs. e. Description of how many distribution poles on average can be installed with Gridscope technology within a given week day. f. Description of the costs associated with installing Gridscope on the number of distribution poles in PG&E's answer to 2.4. Provide all documents that PG&E has in its possession related to the effectiveness and cost of Gridscope.	The current Gridscope product has been deployed in a pilot capacity. It's current capabilities include sensing vibration, acceleration, inclination, electric field voltage, infrared readings, temperature, barometric pressure, particulate matter, humidity, audio and imaging. a. Gridscope sensors have been mounted on every other pole to monitor the pole they are attached to and the adjacent poles. It senses the electromagnetic field, vibration, WMP-Discovery2025-2028_DR_SPO_006-0003 Page 2 b. Gridscope sensors have been deployed in pilot mode and are currently used for outage/hazard response only. c. Based on pilot implementation experience, PG&E estimates that, on average, a crew can install 40 to 50 sensors per day depending on accessibility to the locations. d. During pilot phase, PG&E contracted out Gridscope installs to the vendor, the details of which are confidential. e. Effectiveness - Please see "WMP-Discovery2025-2028_DR_SPO_006-0003and1CONF.docx" for all alert information from January 1, 2024 to May 2025.	Eddie Schmitt	5/19/2025	5/22/2025	5/22/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	1	No	10	Situational Awareness and Forecasting	10.3.1
245	SPO	006	SPO_006	3	No	SPO_006_03	a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. Explain what these three responses mean. c. Where the costs of the initiative reviewed in each of these three responses. d. If it is possible, explain the review of the costs for the initiative. e. If not, explain whether the costs for these initiatives have been reviewed. If the costs for these initiatives have not been reviewed, explain why.	a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. c. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. d. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. e. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Eddie Schmitt	5/19/2025	5/26/2025	5/26/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	0	No	3	Overview of WMP	3.6
246	SPO	006	SPO_006	4	No	SPO_006_04	In its response to SPO-004 Question 27b PG&E states "Cost-related feasibility factors are incorporated into cost estimations as a quantitative cost modifier, which are then included in the submitted cost of the proposed construction." a. Provide the quantifiable cost modifier for each of the seven "primary examples of feasibility concerns" listed in Question 27. b. Explain how PG&E determined the value for each of the quantifiable cost modifiers listed in Question 27.	In its response to SPO-004 Question 27b PG&E states "Cost-related feasibility factors are incorporated into cost estimations as a quantitative cost modifier, which are then included in the submitted cost of the proposed construction." a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Eddie Schmitt	5/19/2025	6/3/2025	6/2/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	1	No	8	Grid Design, Operations, and Maintenance	8.2.1
246	SPO	006	SPO_006	5	No	SPO_006_05	In a meeting on May 9th to discuss the Wildlife Benefit Cost Analysis (WBCA) Tool, SPO understood from PG&E that a limited number of circuit segments had been evaluated according to the System Hardening Project Scoping Decision Tree and Process based on Figure PG&E-8.2.1.2.1, PG&E-8.2.1.2.2 and PG&E-8.2.1.2.3 in the 2025-2028 Base WMP. Per page 182 of the 2028-2029 WMP SPO understands that the decision trees will inform mitigation selection beginning in 2027. a. Provide the total number of circuit segments where PG&E has already applied the decision tree for mitigation work in 2027 and 2028. b. Provide the total number of circuit segments where PG&E intends to apply the decision tree for work done in 2027 and 2028.	As of May 29, 2025, a total of 28 circuit segments have been reviewed against the System Hardening Project Scoping Decision Tree and Process based on Figure PG&E-8.2.1.2.1, PG&E-8.2.1.2.2, and PG&E-8.2.1.3 in the 2025-2028 Base WMP and re-engineered through scoping. Due to that complexity, not all of these segments will be included in the 2027 workplans. Circuit segments for the 2028 workplan have not yet been evaluated using these decision trees. b. PG&E plans to use the System Hardening Project Scoping Decision Tree and Process based on Figure PG&E-8.2.1.2.1, PG&E-8.2.1.2.2, and PG&E-8.2.1.3 in the 2025-2028 Base WMP for an additional 30 circuit segments for consideration in the 2027 workplan. Circuit segments for 2028 have not yet been evaluated using these Decision Trees.	Eddie Schmitt	5/19/2025	6/2/2025	6/2/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	0	No	3	Overview of WMP	3.6
247	SPO	006	SPO_006	6	No	SPO_006_06	In a meeting on May 9th to discuss the Wildlife Benefit Cost Analysis (WBCA) Tool, PG&E informed SPO that the baseline value of risk used to calculate CIR is different in the 2024 RAMP and the WBCA Tool. a. Provide a detailed step by step explanation of how CIR is calculated for the 2024 RAMP and WBCA Tool. This should include an example with a table that is similar to Table PG&E-8.2.1.2 in the 2025-2028 Base WMP but should continue through to the entire CIR calculation. b. In the narrative answer to this question highlight the differences in the baseline value of risk used in each approach. Explain any other differences.	a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Eddie Schmitt	5/19/2025	5/22/2025	5/22/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	0	No	3	Overview of WMP	3.6
247	SPO	006	SPO_006	6(x)	Yes	SPO_006_06(x)	In a meeting on May 9th to discuss the Wildlife Benefit Cost Analysis (WBCA) Tool, PG&E informed SPO that the baseline value of risk used to calculate CIR is different in the 2024 RAMP and the WBCA Tool. a. Provide a detailed step by step explanation of how CIR is calculated for the 2024 RAMP and WBCA Tool. This should include an example with a table that is similar to Table PG&E-8.2.1.2 in the 2025-2028 Base WMP but should continue through to the entire CIR calculation. b. In the narrative answer to this question highlight the differences in the baseline value of risk used in each approach. Explain any other differences.	a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Eddie Schmitt	5/19/2025	5/26/2025	5/26/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	1	No	3	Overview of WMP	3.6
248	SPO	006	SPO_006	7	No	SPO_006_07	PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Eddie Schmitt	5/19/2025	5/22/2025	5/22/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	0	No	3	Overview of WMP	3.6
249	O&EIS	012	O&EIS_012	1	No	O&EIS_012_01	On April 18, 2025, PG&E submitted substantive errors for its 2025-2028 Base WMP. On May 16, 2025, PG&E submitted non-substantive errors for its 2025-2028 Base WMP. In both errors, PG&E made updates to Table 3-3: Summary of Projected WMP Expenditures and stated the updates were made to reflect forecast alignment with upcoming General Rate Case. a. Explain the forecast refinements that were made for the April 18, 2025, errors. b. Explain the forecast refinements that were made for the May 16, 2025, errors.	On April 18, 2025, PG&E submitted substantive errors for its 2025-2028 Base WMP. On May 16, 2025, PG&E submitted non-substantive errors for its 2025-2028 Base WMP. In both errors, PG&E made updates to Table 3-3: Summary of Projected WMP Expenditures and stated the updates were made to reflect forecast alignment with upcoming General Rate Case. a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Nathan Poon	5/23/2025	6/5/2025	6/5/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	1	No	3	Overview of WMP	3.6
250	O&EIS	012	O&EIS_012	2	No	O&EIS_012_02	In its 2025-2028 WMP, Section 9.7.3 "VM Scoping," PG&E states that, "For TWM, previously established every 2.5 years (1:300). In response to site requests, PG&E is revising the vegetation height and density constraints are analyzed each year." a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	In its 2025-2028 WMP, Section 9.7.3 "VM Scoping," PG&E states that, "For TWM, previously established every 2.5 years (1:300). In response to site requests, PG&E is revising the vegetation height and density constraints are analyzed each year." a. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program. b. PG&E's 2024 Annual WMP Template Workbook submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP", "2023 WMP" and "refer to 6.4" as the most recent proceeding to review this program.	Nathan Poon	5/23/2025	5/29/2025	5/29/2025	https://www.pge.com/assets/pge/cdo/outages-and-safety/outage-preparedness-and-support/2025-2028-SPO_006.zip	0	No	9	Vegetation Management and Inspections	9
251	O&EIS	012	O&EIS_012	3	No	O&EIS_012_03	003: Regarding Table 6-4 In response to data request O&EIS-WMP_2025-PGE-008, question 2, subpart (b), PG&E provided an updated version of Table 6-4 from its 2025-2028 Base WMP that included risk density. a. Provide a new version of Table 6-4 with an updated risk ranking of circuit segments based on risk per mile, as used for prioritization of projects. The circuit segments within the new table should not be the same as currently within Table 6-4, which are ranked based on overall risk scores. The updated table should include the following additional columns: i. 2028 planned undergirding (circuit mileage) ii. 2027 planned undergirding (circuit mileage) iii. 2026 planned covered conductor (circuit mileage) iv. 2025 planned covered conductor (circuit mileage) v. 2024 planned covered conductor (circuit mileage) vi. 2023 planned covered conductor (circuit mileage) vii. 2022 planned covered conductor (circuit mileage) viii. 2021 planned covered conductor (circuit mileage) ix. 2020 planned covered conductor (circuit mileage) x. 2019 planned covered conductor (circuit mileage) xi. 2018 planned covered conductor (circuit mileage) xii. 2017 planned covered conductor (circuit mileage) xiii. 2016 planned covered conductor (circuit mileage) xiv. 2015 planned covered conductor (circuit mileage) xv. 2014 planned covered conductor (circuit mileage) xvi. 2013 planned covered conductor (circuit mileage) xvii. 2012 planned covered conductor (circuit mileage) - xviii. 2011 planned covered conductor (circuit mileage) xix. 2010 planned covered conductor (circuit mileage) xx. 2009 planned covered conductor (circuit mileage) xxi. 2008 planned covered conductor (circuit mileage) xxii. 2007 planned covered conductor (circuit mileage) - xxiii. 2006 planned covered conductor (circuit mileage) xxiv. 2005 planned covered conductor (circuit mileage) xxv. 2004 planned covered conductor (circuit mileage) xxvi. 2003 planned covered conductor (circuit mileage) - xxvii. 2002 planned covered conductor (circuit mileage) - xxviii. 2001 planned covered conductor (circuit mileage) xxix. 2000 planned covered conductor (circuit mileage) xxx. 1999 planned covered conductor (circuit mileage) xxxi. 1998 planned covered conductor (circuit mileage) - xxxii. 1997 planned covered conductor (circuit mileage) - xxxiii. 1996 planned covered conductor (circuit mileage) - xxxiv. 1995 planned covered conductor (circuit mileage) xxxv. 1994 planned covered conductor (circuit mileage) - xxxvi. 1993 planned covered conductor (circuit mileage) - xxxvii. 1992 planned covered conductor (circuit mileage) - xxxviii. 1991 planned covered conductor (circuit mileage) - xxxix. 1990 planned covered conductor (circuit mileage) - xl. 1989 planned covered conductor (circuit mileage) - 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lxxxxxxx. 1765 planned covered conductor (circuit mileage) - lxxxxxxx. 1764 planned covered conductor (circuit mileage)											

260	OEIS	014	OEIS_014	1	No	OEIS_014_01	Regarding PG&E's Response to OEIS-P-WMP_2026-PG&E-013, Question 1. In addition to a PG&E response to OEIS-P-WMP_2026-PG&E-013, PG&E stated "PG&E's evaluation of the programs (FTI and TRP) entails a holistic assessment of the processes involved in each program". Provide a list of the processes involved in FTI, include a brief description of each process. Indicate which processes are currently performed under Distribution Routine Patrol. Provide a list of the processes involved in TRP, include a brief description of each process. Indicate which processes are currently performed under Distribution Routine Patrol.	Nathan Poon	6/10/2025	6/13/2025	6/13/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/vegetation-management-and-inspection/vegetation-management-and-inspection-2026-2028-014-01.pdf	2	No	9	Vegetation Management and Inspections	9.2.1.6
261	SPO	004	SPO_004	39(2)	Yes	SPO_004_01(2)	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity-Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost Benefit Ratio 3. It is possible the Cost-Benefit Ratio for each of these activities is as required by 02-25-19-027. If these calculations of CBR vary from what was submitted in PG&E's 2024 RAMP Application, explain how much they vary and why. Complete Table 6-3 for all activities listed in this WMP. Add the Initiative Activity Tracking (IAT) as a column in the completed Table. Present the completed version of Table 6-3 as an Excel spreadsheet.	Edie Schmitt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/wildfire-mitigation-strategy-development/wildfire-mitigation-strategy-development-2026-2028-004-01.pdf	0	No	6	Wildfire Mitigation Strategy Development	6
Pre-Discovery 01	TURN	001	TURN_001	1	No	TURN_001_01	Please provide a contemporaneous copy of the pre-submission, and all supporting materials, submitted to the Office of Energy Infrastructure Safety on March 1, 2025.	A Minale Fak-Fry	2/24/2025	3/7/2025	2/28/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/turn-wmp-pre-submission/turn-wmp-pre-submission-2026-2028-001-01.pdf	0	No	NA	NA	
Pre-Discovery 01	TURN	001	TURN_001	1(4)	Yes	TURN_001_01(4)	Please provide a contemporaneous copy of the pre-submission, and all supporting materials, submitted to the Office of Energy Infrastructure Safety on March 1, 2025.	A Minale Fak-Fry	2/24/2025	3/7/2025	3/7/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/turn-wmp-pre-submission/turn-wmp-pre-submission-2026-2028-001-01.pdf	1	No	NA	NA	
Pre-Discovery 02	CALPA	001	CALPA_001	1	No	CALPA_001_01	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 that is related to your 2026-2028 WMP or WMP quarterly reports, unless the document is publicly available through Energy Safety's records. This request is limited to materials, data files, guidelines, 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). Please 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.	Holly Weisman	3/5/2025	3/10/2025	3/10/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/calpa-wmp-pre-submission/calpa-wmp-pre-submission-2026-2028-001-01.pdf	0	No	NA	NA	
Pre-Discovery 03	CALPA	001	CALPA_001	2	No	CALPA_001_02	Please provide a copy of your WMP pre-submission within three business days of its submission to Energy Safety.	Holly Weisman	3/5/2025	3/10/2025	3/10/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/calpa-wmp-pre-submission/calpa-wmp-pre-submission-2026-2028-001-02.pdf	1	No	NA	NA	
Pre-Discovery 04	MGR4	001	MGR4_001	1	No	MGR4_001_01	Please provide for Asset Point data for Camera, Fuse, Support Structure, and Weather Station.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-01.pdf	1	No	NA	GIS	
Pre-Discovery 05	MGR4	001	MGR4_001	2	No	MGR4_001_02	Please provide for Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-02.pdf	0	No	NA	GIS	
Pre-Discovery 06	MGR4	001	MGR4_001	3	No	MGR4_001_03	Provide PPSP Event data, include Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Provide all PPSP Event Asset Damage data. Data should include time, duration.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-03.pdf	0	No	NA	GIS	
Pre-Discovery 07	MGR4	001	MGR4_001	4	No	MGR4_001_04	Provide Risk Event Point data, including Wire Down, Ignition, Transmission upstream outage (as classified non-confidential), Distribution Upstream Outage data. Distribution Upstream Outage data should include location, time, and cause information.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-04.pdf	0	No	NA	GIS	
Pre-Discovery 08	MGR4	001	MGR4_001	5	No	MGR4_001_05	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested at this time.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-05.pdf	0	No	NA	GIS	
Pre-Discovery 09	MGR4	001	MGR4_001	6	No	MGR4_001_06	Under Other Required Data, please provide Red Flag Warning Day polygon data including dates and duration.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-06.pdf	0	No	NA	GIS	
Pre-Discovery 10	MGR4	001	MGR4_001	7	No	MGR4_001_07	Please provide a layer indicating calculated circuit-level risk using the methodology presented in the WMP. If a independent probability and consequence layers exist, please provide these independently as well.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-07.pdf	1	No	NA	GIS	
Pre-Discovery 11	MGR4	001	MGR4_001	8	No	MGR4_001_08	PG&E maintains that providing specific data in response to the above requests would violate confidentiality as it has assessed it please provide a justification for each request to the extent requested data is not confidential. PG&E is providing the following information to the extent requested data is not confidential: 1. PG&E maintains that providing specific data in response to the above requests would violate confidentiality as it has assessed it please provide a justification for each request to the extent requested data is not confidential. PG&E is providing the following information to the extent requested data is not confidential: 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. Goes strategic information beyond the location of the critical infrastructure.	Joseph Mitchell	3/17/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/pge/docs/outage-and-safety/mgr4-wmp-pre-submission/mgr4-wmp-pre-submission-2026-2028-001-08.pdf	0	No	NA	GIS	

