

Count	Party Name	Data Set	Data Request	Question No.	Supplier	Question ID	Question Text	Response	Requestor	Date Received	Final Date	Date Sent	Links	Number of Alerts	NCA Required	2025 WMP Section	Category	Subcategory
1	TURN	002	TURN_002	1	No	TURN_002_Q0	Section 5.2.1, page 57 states, "Starting in January 2023, PG&E recognized additional customers who could be impacted by the PPSPs consequence model and classified them as Potentially Impacted Customers (PICs)." a. How were the PICs selected? b. How were they initially identified? c. What types of consequences do they have that were not included in the 12-year customer backbone? d. Please explain the basis for PG&E's ability to apply the same consequences to customers who could experience a PPSpS event as captured in the backbone. e. Regarding the statement on page 57 that "This enables the evaluation of multiple outage events for each customer and the resulting impacts," please provide the specific data on which this statement is based.	Please note that PG&E is longer accounts for Potentially Impacted Customers (PICs) in its PPSpS consequence model due to the low incremental risk values associated with data that is not included in our backbone. This data is shown on page 57 of the 2025-2028 WMP in historical in nature. a. The selection criteria for PICs were created by using the distribution planning models under the scenario of "what if" every distribution line in HF TDSFRA is required to be de-energized. b. Potentially impacted customers (i.e., all customers who would be impacted by the de-energized distribution lines) were identified by using the distribution planning models. c. The inclusion of PICs results in an increased risk associated with customers in locations where PPSpS thresholds were not met or historical conditions, but have exposure to PPSpS risk based on HF TDSFRA location and system configuration. This evaluation does not include the addition of new consequences. d. The meeting behind this statement is that this is a low probability event, and the cost was to assign risk exposure to customers that are not accounted for in PG&E's backbone model. This is because our backbone is based on historical weather conditions that have met PPSpS thresholds to initiate a PPSpS event. This is not to say that locations in HF TDSFRA that have never met PPSpS thresholds could not see an event in the future. e. The statement is based on the view that all customers that would be impacted by the incremental de-energization of every HF TDSFRA distribution line, under the unique circumstances and conditions.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	5	Risk Methodology & Assessment	5.2.1
2	TURN	002	TURN_002	2	No	TURN_002_Q0	Section 5.2.2.1 page 63 provides the formula for PPSpS likelihood. Please explain why 5 years was selected as the denominator?	PG&E's backbone is used to estimate PPSpS consequence and includes 2018-2022 data (5 years). This is in line with the historical and recorded of PPSpS events in 2018. PG&E's risk model also includes an additional 2 years of data (2023-2024) that was not included in the existing backbone due to modeling gaps being available at the time of the analysis. To address this data gap, PG&E used actual PPSpS events to determine the customer impact of de-energizing the system. PG&E's model is based on historical data and does not account for future events. PG&E's model is based on historical data and does not account for future events. PG&E's model is based on historical data and does not account for future events.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	5	Risk Methodology & Assessment	5.2.2.1
3	TURN	002	TURN_002	3	No	TURN_002_Q0	Section 6.1.2, page 118 states that, instead of undergrounding, "In certain circumstances we may choose to overheadize a line as a result of a cost-benefit analysis of a critical segment because of feasibility constraints." Please identify and explain each and every entry that PG&E would include in its feasibility constraints based on the cost-benefit analysis that PG&E would decide, based on those criteria, that overheadizing is the best choice.	Section 6.1.2, page 118 states that, instead of undergrounding, "In certain circumstances we may choose to overheadize a line as a result of a cost-benefit analysis of a critical segment because of feasibility constraints." Please identify and explain each and every entry that PG&E would include in its feasibility constraints based on the cost-benefit analysis that PG&E would decide, based on those criteria, that overheadizing is the best choice.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.2
4	TURN	002	TURN_002	4	No	TURN_002_Q0	Section 6.1.3, page 120 states, "While undergrounding is PG&E's preferred solution for mitigating system risk in the highest risk areas, we recognize that undergrounding does not always result in reduced overhead hazards and is a more costly investment in the short term." Please explain why PG&E would not consider overheadizing as a more cost-effective solution in the long term, and how PG&E would decide, based on those criteria, that overheadizing is the best choice.	We disagree that this conclusion is not addressed. On page 120, we noted that "the combined use of covered conductors, EPSS, and PPSpS introduces a high likelihood of system collapse risk and is disruptive to our customers." As further noted in the description of Section 6.1.3.2 (pg. 124-125) and in PG&E's 2025 WMP Update, A2.25 (pg. 34-37), PG&E recognizes that overheadizing can be installed more quickly than an undergrounding solution, however, the initial risk reduction achieved from system installation of an overhead mitigation does not compensate for the greater long-term permanent risk reduction achieved over the lifetime of an undergrounded solution. Undergrounding is preferred to the combination of covered conductors, EPSS, and PPSpS because it is a more permanent solution. The risk reduction achieved from system installation of an overhead mitigation does not compensate for the greater long-term permanent risk reduction achieved over the lifetime of an undergrounded solution. Undergrounding is preferred to the combination of covered conductors, EPSS, and PPSpS because it is a more permanent solution. The risk reduction achieved from system installation of an overhead mitigation does not compensate for the greater long-term permanent risk reduction achieved over the lifetime of an undergrounded solution.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
5	TURN	002	TURN_002	5	No	TURN_002_Q0	Regarding Table PG&E-6.1.3.1 on page 120, please provide the supporting data on which the "Wentend Average Effectiveness" values for Phase 4, 5, and 6 are based.	Table PG&E-6.1.3.1 on page 120, please provide the supporting data on which the "Wentend Average Effectiveness" values for Phase 4, 5, and 6 are based.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
6	TURN	002	TURN_002	6	No	TURN_002_Q0	Section 6.1.3.2, page 124 states, "Overhead system hardening combined with operational mitigation EPSS and PPSpS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations." Please explain why PG&E would not consider overheadizing as a more cost-effective solution in the long term, and how PG&E would decide, based on those criteria, that overheadizing is the best choice.	Section 6.1.3.2, page 124 states, "Overhead system hardening combined with operational mitigation EPSS and PPSpS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations." Please explain why PG&E would not consider overheadizing as a more cost-effective solution in the long term, and how PG&E would decide, based on those criteria, that overheadizing is the best choice.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
8	TURN	002	TURN_002	8(a)	Yes	TURN_002_Q0(a)	Section 6.1.3.2, page 124 states, "Overhead system hardening combined with operational mitigation EPSS and PPSpS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations." Please explain why PG&E would not consider overheadizing as a more cost-effective solution in the long term, and how PG&E would decide, based on those criteria, that overheadizing is the best choice.	Section 6.1.3.2, page 124 states, "Overhead system hardening combined with operational mitigation EPSS and PPSpS has a high-risk reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations." Please explain why PG&E would not consider overheadizing as a more cost-effective solution in the long term, and how PG&E would decide, based on those criteria, that overheadizing is the best choice.	A Melsie Full-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf https://www.pge.com/assets/pge/docs/outage-planning-and-response/2025-2028-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2

7	TURN	002	TURN_002	7	No	TURN_002_Q7	The microgrid discussed in 8.2.7 are said to not impact reliability because they are not dependent on upstream lines. The microgrid is located in areas where they have been installed and on only they are deployed in emergency or other faulting conditions to increase reliability concerns?	Section 8.2.7 addresses three microgrid related initiatives. Remote Data Remote data are not connected to the distribution system, as they place generation assets right at the customer location 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 Data system architecture. Temporary Distribution Microgrids These microgrids are not said to automatically energize upon an outage condition; they are manually operated to isolate and energize the microgrid footprint once the PSPS event has de-energized the area. In a more permanent, pre-designed, pre-constructed manner due to its inherent design. While it is possible that they could be utilized during unplanned or planned outages, it would be highly dependent upon whether the temporary generators are pre-aligned at the location, whether the location is safe to actually energize in that outage, and whether the actual process of energizing the microgrid and subsequently returning back to service, is actually benefiting from an outage location. Independent versus energy parking, repaving, and ensuring the outage condition. Since these temporary distribution microgrids allow incorporating energy generating assets, the ability to automatically energize these locations is not available. Community Microgrid (understand Program and Microgrid Timeline Program WWP-Chowney 2020-2028, DR_TURN_002-0007 Page 2 These microgrids are community owned 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 the conditions for their operations. Each microgrid being requested to be designed by these communities through these funds and to ensure they are dependent upon reliability is dependent upon their design, operational conditions, and the community desired objectives. As described Section 7 page 170 "PSPS Lessons Learned" and explained in PG&E's post de-energization report for the July 2, 2024 PSPS event, two severe wind events were forecasted to come in separate back to back events. The first event meeting PSPS criteria occurred during overnight period of July 1-2 with a brief lull in the winds that occurred during the day of July 2. The second forecasted event of calm fire weather conditions meeting our PSPS criteria was forecasted to occur later in the evening which allowed us to public and temporarily re-energize the portion of the customers who were impacted by the first wave to allow customers to cool their homes and charge their devices. On the evening of July 2, weather conditions deteriorated rapidly meeting our PSPS criteria and requiring us to de-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 post de-energization report: https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf Generally, conditions that allow PG&E to temporarily re-energize during PSPS events are for full critical weather conditions. The third period needed to have sufficient time for our crews to safely following the weather after either "Weather "At-Open" or "Weather "At-Close" and the weather conditions are safe to re-energize the system. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	A Middle Fall-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	6	Grid Design, Operations, and Maintenance	8.2.7
8	TURN	002	TURN_002	8	No	TURN_002_Q8	Section 7, page 170, states that "during the July 2, 2024, PSPS event, we were able to reduce the event duration for some customers by temporarily re-energizing a few that were a portion of the impacted customers." and "helping other temporary re-energization during future PSPS events where conditions allow." What conditions are necessary to replicate partial temporary re-energization during PSPS events?	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	A Middle Fall-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	7	Public Safety Power Shutoff	7
9	TURN	002	TURN_002	9	No	TURN_002_Q9	Please fill in the values in the following table (all units are miles):	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	A Middle Fall-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
10	TURN	002	TURN_002	10	No	TURN_002_Q10	Please provide a narrative explanation of the decision tree shown in Figure 8.2.2, including any criteria that PG&E uses to determine if a project is eligible for undergrounding. a. Figure 8.2.2 appears to indicate that UG is performed when CBR is within 50% of the CH-1 (PSPS CBR) and CH-10 (CH-10). Please explain the basis for the figure of 50%. b. It appears that the decision tree begins with UG as the default option and only moves to alternatives when certain criteria are not met. Why doesn't PG&E begin with the more cost-effective hybrid approach and move to UG when absolutely necessary? Why is a score of 60 significant? c. Please identify and explain each and every criterion that is considered in determining "Are there Egress/egress concerns represented by PSPS level?" Please provide a narrative explanation of the types of concerns and how they impact risk. d. Please provide a narrative explanation of the PSPS program and the effect on CBR. e. At any point in the decision tree, are the hybrid project CBRs recalculated based on different permutations/combinations?	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	A Middle Fall-Fry	4/10/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1-2
11	CEIS	001	CEIS_001	1	No	CEIS_001_Q1	Regarding Vegetation Management GA and QC Units: a. On page 410 of the 2020-2028 WMP, PG&E lists "inspections" as the "Population Sample Unit" for VM&D, VM&D, VM&D, and VM&D. However, in the "Sample Size" column, PG&E uses a different unit, listing the number of miles (VM&D, VM&D, and VM&D) and square miles (VM&D), that it will audit. b. Define what constitutes an "inspection" and c. Clearly whether PG&E is auditing work performed and not performed along the length of the sample management GA and QC activity. d. PG&E audits describe inspections rather than the entire length of a sample, reproduce Table 54 "Vegetation Management GA and QC Activity" and e. An estimate of the number of inspections PG&E plans to audit under the 2020, 2021, and 2022 "Population Sample" columns. f. For VM&D units, PG&E lists "miles" in "Population Size" column, "square" in "Sample Size", and "Inspection" in the "Inspection/Item Unit". Clearly the unit used for VM&D?	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	Nathan Poon	4/8/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	9	Vegetation Management & Inspections	9.11
12	CEIS	001	CEIS_001	2	No	CEIS_001_Q2	Regarding Vegetation Management GA and QC Outside the HFTD: a. On page 410 of the 2020-2028 WMP, PG&E specifies that 100% of GAQC samples are from locations within the HFTD. b. Does PG&E perform GAQC in its HFTD? c. If yes, why does it not extend to GAQC program to its HFTD? d. Does PG&E perform GAQC in non-HFTD areas? e. If yes, why does it not extend to GAQC program to non-HFTD areas? f. If yes, why does it not extend to GAQC program to non-HFTD areas?	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	Nathan Poon	4/8/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	9	Vegetation Management & Inspections	9.11
12	CEIS	001	CEIS_001	2H	Yes	CEIS_001_Q2H	Regarding Vegetation Management GA and QC Outside the HFTD: a. On page 410 of the 2020-2028 WMP, PG&E specifies that 100% of GAQC samples are from locations within the HFTD. b. Does PG&E perform GAQC in its HFTD? c. If yes, why does it not extend to GAQC program to its HFTD? d. Does PG&E perform GAQC in non-HFTD areas? e. If yes, why does it not extend to GAQC program to non-HFTD areas? f. If yes, why does it not extend to GAQC program to non-HFTD areas?	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	Nathan Poon	4/8/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	9	Vegetation Management & Inspections	9.11
13	CEIS	001	CEIS_001	3	No	CEIS_001_Q3	Regarding Vegetation Management GA and QC Target Pass Rates: a. On page 410 of the 2020-2028 WMP, PG&E lists a target pass rate for "Vegetation Management Quality Assurance (VMQA)" of 95%. On page 411, PG&E states that VMQA has a "95% estimated level of compliance." b. How does PG&E use the "estimated level of compliance" in its operations? c. Explain why the estimated level of compliance differs from the target pass rate.	WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Please note that the specific conditions that occur during the July 2, 2024 event allowed PG&E to re-energize a portion of the affected customers, but that the conditions for temporary re-energization is condition and event-specific and not a programmatic or policy decision. PG&E will continue to monitor the weather and map of each weather station in each zone to that area. Please see attachment "WWP-Chowney2020-2028, DR_TURN_002-0009a001.docx". The following considerations and assumptions are applied to this response. If a subproject spans multiple High Fire-Threat District (HFTD) lines, 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 handling and/or the 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. WWP-Chowney 2020-2028, DR_TURN_002-0009 Page 2 Since the formula does not require miles completed within HFTD, this response excludes system handling work under the Community Benefit Program. The original table requested both 2023 actual and planned miles. We updated and responses to include actual through 2024 and planned work for 2025. PG&E is reviewing the Council Budget Request for 2025 for the Community Benefit Program.	Nathan Poon	4/8/2025	4/10/2025	4/10/2025	https://www.pge.com/assets/pge/docs/outage-notifications-and-customer-support/2024-07-02-002.pdf	0	No	9	Vegetation Management & Inspections	9.11

14	OEIS	001	OEIS_001	4	No	OEIS_001_Q4	Regarding Vegetation Management Field Quality Control On page 413 of the 2020-2025 WMP, PG&E states that it discontinued its Field Quality Control (FQC) because it is redundant to "ongoing knowledge checks." a. Describe the similarities and differences between FQC and "ongoing knowledge checks." b. List the responsibilities between FQC and "ongoing knowledge checks." c. For non-redundant aspects: i. Explain whether and how PG&E accounts for these aspects in other ways (e.g., other QA/QC programs). d. If PG&E does not account for these aspects in other ways, explain why PG&E discontinued it.	a. Vegetation Management (VM) Knowledge Checks i. VM operations meet the check-list – inspected monthly i. VM coordination management development of a Vegetation Management Inspector (VMI assessment) and with both field and desk review components i. Periodic field visits of VM from then PG&E leadership learn or delegates Field Quality Control (FQC) Assessments i. Perform on-site knowledge assessments of VM using a defined checklist applicable to specific VM work scopes i. FQC scope required annual assessment of at least 90% of the eligible population WMP-Chowcoy 2020-2025_OH_OEIS_001-Q04 Page 2 a. FQC review included detailed observation of VM inspection work behaviors and performance/conformance to applicable guidance documentation b. FQC performance knowledge assessments of VM using a standardized checklist. The VM assessment and will perform knowledge assessments of VM using standardized learning methods c. FQC performs on-site desk observations of VM. The existing Vegetation Operation Inspector (VOI) team and internal operations field leadership perform periodic field visits with VM d. For non-redundant aspects: i. FQC captures VM adherence to applicable regulatory requirements and internal guidance documentation and publishes the results in a reporting system. QA/QC can be used as an analogy for VM performance by existing the VM work product. i. No.	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.11
15	OEIS	001	OEIS_001	5	No	OEIS_001_Q5	Regarding Vegetation Management Field Reviews On page 417 of the 2020-2025 WMP, PG&E describes its Vegetation Management Quality Control (VMQC) program. PG&E states that it "performs field reviews after VM Operations has completed their inspections and/or new work to verify the applicable procedural scope has been met." a. Does PG&E's record keeping system distinguish between field reviews of inspections and field reviews of new work? i. If yes, list the sample size for distribution (VM-Q20) and transmission (VM-Q27) of: A. Inspection quality control field reviews. B. New work quality control field reviews. i. Explain why PG&E aggregates quality control of two activities, inspections and new work, into one target (e.g., VM-Q20 in Table 6.6, page 418).	a. PG&E's VMQC program's record keeping system does not distinguish between field reviews of inspections and field reviews of new work i. No. i. PG&E aggregates quality control of two activities, inspections, and new work, into one target because the VMQC assessment criteria allows both VM inspection and new work activities to be evaluated to ensure procedural and regulatory compliance is met for the annual routine cycle.	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.11
16	OEIS	001	OEIS_001	6	No	OEIS_001_Q6	Regarding Vegetation Management Work Orders On page 417 of the 2020-2025 WMP, PG&E lists past due work orders in Table 9-7 and 9-8 and notes that "unassigned work" are excluded" from both tables. a. Provide Tables 9-7 and 9-8 including unassigned work orders. b. List the number of past due work orders considered by the following categories: i. Customer ii. Environmental Permit iii. Environmental Permit iv. Operational c. For Environmental and Environmental Permit constraints, list the number of past due work orders by the permit needed to support 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 WFTD Thresholds	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.12
17	OEIS	001	OEIS_001	7	No	OEIS_001_Q7	Regarding Vegetation Management Training and Rotation On page 422-423 of the 2020-2025 WMP, PG&E describes "formal courses (instructor-led and web-based) program. PG&E states that it has "implemented a process of profiling training courses within the VM organization based on personnel role and internal employee or contractor roles." a. Describe how PG&E invests in the career advancement of its vegetation management personnel. b. Describe PG&E's efforts to rotate 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 Basic Arborist Certification and advanced qualifications like Tree Risk Assessment Qualified (TRAQ). PG&E also helps to streamline the certification process and aid personnel in the Arborist certification test preparation by hosting weekly International Society of Arboriculture (ISA) study knowledge classes group study. For current Arborists, PG&E collaborates with the Western Chapter ISA to schedule dedicated TRAQ qualification training class, ensuring every arborist receives training. b. PG&E has continued the Vegetation Management Inspector (VMI) and Vegetation Operation Inspector (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	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.13
18	OEIS	001	OEIS_001	8	No	OEIS_001_Q8	Regarding PG&E-2018-18: Improving Vegetation Management Inspector Qualifications On page 508 of the 2020-2025 WMP, PG&E discusses how it will improve the qualifications and training of VM inspectors. PG&E states that it has "implemented a process of profiling training courses within the VM organization based on personnel role and internal employee or contractor roles." i. Describe the "profiling" process. ii. Define "profiling" in the context of "profiling training courses."	i. With the profiling process, Vegetation Management personnel are automatically assigned training based on their position. ii. These personnel automatically receive training requirements when individuals are hired or change roles. iii. Profiling in the context of "Profiling Training Courses" is defined as being specific to the role.	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.13
19	OEIS	001	OEIS_001	9	No	OEIS_001_Q9	Regarding Distribution Routine Patrol Program On page 363, PG&E's WMP states "PG&E is in the process of evaluating which components of the Proposed Tree Inspection (PTI) and Tree Removal Inventory (TRI) scope will be incorporated into the Distribution Routine Patrol Program. This analysis will be based on findings from efficacy studies planned to be performed in 2025. PG&E will incorporate VMOM 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 components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program, the efficacy study, and incorporating VMOM into Activities Based on Weather Conditions? i. If so, provide those SMART targets. ii. If not, explain why PG&E does not have SMART targets for plan to consolidate its vegetation inspection programs for distribution circuits in the PFTD. b. Provide the procedures for these efficacy studies. c. When does PG&E expect to determine which components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? d. When does PG&E expect to determine which components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program procedure that include components of PTI and TRI will be effective (i.e., used by personnel in the field)?	a. PG&E is in the process of evaluating which components of the Proposed Tree Inspection (PTI) and Tree Removal Inventory (TRI) scope will be incorporated into the Distribution Routine Patrol Program. This analysis will be based on findings from efficacy studies planned to be performed in 2025. PG&E will incorporate VMOM 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 components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program, the efficacy study, and incorporating VMOM into Activities Based on Weather Conditions? i. If so, provide those SMART targets. ii. If not, explain why PG&E does not have SMART targets for plan to consolidate its vegetation inspection programs for distribution circuits in the PFTD. b. Provide the procedures for these efficacy studies. c. When does PG&E expect to determine which components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program? d. When does PG&E expect to determine which components of the PTI and TRI scope will be incorporated into the Distribution Routine Patrol Program procedure that include components of PTI and TRI will be effective (i.e., used by personnel in the field)?	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.2.1
20	OEIS	001	OEIS_001	10	No	OEIS_001_Q10	Regarding Pruning and Removal On page 377, 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 the path of the service territory these new designations will apply to including the reason these parts of the service territory would benefit from additional prioritization categories. c. Provide a schedule for and anticipated completion date of the examination. d. Provide an anticipated effective date of the new prioritization category scheme (i.e., when the prioritization scheme will be used by personnel in the field).	a. The examination criteria are based on the completion timelines associated with P1, P2, and Routine designations. If appropriate, additional work prioritization categories would be introduced. b. The current prioritization categories are defined in Priority Tag Procedure TD-710P-17. The current categories are under examination. Additional categories will be considered for inclusion. 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 work prioritization designation. d. This examination is a continuous, improved activity with an anticipated completion date at this time. This expects the examination through the end of 2025 to inform our 2025-2028 WMP activities. WMP-Chowcoy 2020-2025_OH_OEIS_001-Q10 Page 2 a. 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 applied. We do not have an anticipated effective date at this time. b. Our current data quality, profiling, and monitoring practice score review phases: -MANAGE i. Define – develop dataset inventory ii. Maintain – provide the information needed to use the data iii. Critical data elements – list the critical data elements to be managed iv. Database – define required data statements needed v. Profile – analyze the critical data elements vi. Rules – define business rules to ensure the data meets quality requirements vii. Retain – determine retention timeline length for the dataset -MITIGATE i. Test – build tests to measure quality data ii. Measure – identify data that fails quality standards iii. Control – identify control points in the process that need to be managed iv. Checkers – conduct actions to remove or improve poor quality data v. Monitor – ensure remediation actions complete and data meets quality over time vi. Dispose – determine when and how to dispose of dataset records -MAINTAIN i. Maintain – ensure data maintains its quality over time ii. Monitor – update the process, the controls, and the data iii. We will continue to apply the prior mentioned practices of MANAGE, MITIGATE, MAINTAIN against remaining unmanaged critical data sets. c. 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: -Account -Asset -AssignedResource -Cost -CostComment -CostManagement	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.3
21	OEIS	001	OEIS_001	11	No	OEIS_001_Q11	Regarding Enterprise System Qualitative Targets On page 324-326 of the WMP, PG&E provides qualitative targets (ES-Q1). a. Provide the current data quality, profiling, and monitoring practices used for VM data. b. Provide a schedule for and anticipated completion date of the examination. c. List the datasets that have been identified as critical for VM execution.	a. PG&E's current data quality, profiling, and monitoring practices used for VM data: i. Define – develop dataset inventory ii. Maintain – provide the information needed to use the data iii. Critical data elements – list the critical data elements to be managed iv. Database – define required data statements needed v. Profile – analyze the critical data elements vi. Rules – define business rules to ensure the data meets quality requirements vii. Retain – determine retention timeline length for the dataset -MITIGATE i. Test – build tests to measure quality data ii. Measure – identify data that fails quality standards iii. Control – identify control points in the process that need to be managed iv. Checkers – conduct actions to remove or improve poor quality data v. Monitor – ensure remediation actions complete and data meets quality over time vi. Dispose – determine when and how to dispose of dataset records -MAINTAIN i. Maintain – ensure data maintains its quality over time ii. Monitor – update the process, the controls, and the data iii. We will continue to apply the prior mentioned practices of MANAGE, MITIGATE, MAINTAIN against remaining unmanaged critical data sets. c. 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: -Account -Asset -AssignedResource -Cost -CostComment -CostManagement	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	12	Enterprise Systems	12.2
22	OEIS	001	OEIS_001	12	No	OEIS_001_Q12	Regarding PG&E-2018-08: Resumption of Trees in Tree Removal Inventory On page 382 of the WMP, PG&E provides a response to PG&E-2018-08 relating "In late 2024, PG&E began planning a pilot to re-evaluate trees listed for work within Shasta County." a. Provide pilot study procedures. b. Provide pilot study schedule. c. Provide any study results.	a. There is no formalized procedure specific to this pilot. PG&E followed TD-710P-01, Distribution Inspection Procedures and attached to New Remedial 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 List (TAL) Aloha vegetation points with a record of "Yes" in the system of record within Shasta County. b. The final execution of the Pilot began in Quarter 4 of 2024 for Level 2 Inspections performed by a TRAQ-certified arborist and the subsequent Basic-Certified Master Arborist review. c. All Level 2 field inspections by TRAQ-certified arborists were completed in Q1 2025. -Any remaining Basic-Certified Master Arborist reviews are expected to be completed in Q2 2025. 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-Chowcoy 2020-2025_OH_OEIS_001-Q12 Page 2 a. 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 and external stakeholders.	Nathan Poon	4/8/2025	4/1/2025	4/1/2025	https://www.pge.com/assets/pge/docs/vegetation-and-ecosystems/vegetation-and-ecosystems-procedures-and-support/2025-04-08_OEIS_001.pdf	0	No	9	Vegetation Management & Inspectors	9.2.1

32	OEIS	001	OEIS_001	22	No	OEIS_001_Q02	Regarding Real Time Sensors On page 237 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	10	Situational Awareness and Forecasting	10.4/10.31
33	OEIS	001	OEIS_001	23	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 Base WMP, PG&E provides Figures 6-1: Projected Overall Service Territory Risk, showing the residual risk over time from wildfire mitigation and operational mitigation. Provide similar versions of the figure showing the associated projected risk reduction for wildfire risk, PSPS risk, and PDSO risk over time. From 2020-2028, PG&E shows a projected reduction in overall utility risk of approximately one percent when accounting for resiliency mitigations, but only a reduction of approximately one percent when accounting for operational and resiliency mitigations together. Provide the actual projected residual risk percentages broken out by year from 2020 to 2028 for both resiliency mitigations as well as resiliency and operational mitigations. Explain why there is a projected residual risk reduction when incorporating operational mitigations.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.1
34	OEIS	001	OEIS_001	24	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	5	Risk Methodology & Assessment	5.3
35	OEIS	001	OEIS_001	25	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	5	Risk Methodology & Assessment	5.2.1
36	OEIS	001	OEIS_001	26	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	11	Emergency Preparedness, Collaboration, and Public Awareness	11.3.21.3.3
37	OEIS	001	OEIS_001	27	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	1	No	5	Risk Methodology & Assessment	5.6.15.6.2
38	OEIS	001	OEIS_001	28	No	OEIS_001_Q02	Regarding Projected Risk Reduction On page 147 of the 2020-2028 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 table of sensors that are being piloted or slated for rollout from 2020-2028. For each sensor provide the following information: a. Model number/s b. Data the sensor records/transmits (voltage, current, power quality, temperature, vibration, etc.) c. Current phase of pilot (planning, execution, evaluation, scaling) d. Estimated completion date of pilot evaluation phase	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	0	No	5	Risk Methodology & Assessment	5.2/5.5
39	MORA	002	MORA_002	1	No	MORA_002_Q01	Weather station metadata valid as of Q4 of 2024.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	1	No	NA	GIS	NA
39	MORA	002	MORA_002	190	Yes	MORA_002_Q190	Weather station metadata valid as of Q4 of 2024.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	1	No	NA	GIS	NA
40	MORA	002	MORA_002	2	No	MORA_002_Q02	PSPS event damage event reports obtained from post-event patches, including causes for all quarters of 2024.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	2	No	NA	GIS	NA
40	MORA	002	MORA_002	290	Yes	MORA_002_Q290	PSPS event damage event reports obtained from post-event patches, including causes for all quarters of 2024.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	3	No	NA	GIS	NA
41	MORA	002	MORA_002	3	No	MORA_002_Q03	Unplanned outage data, including causes for all quarters of 2023 and 2024. If possible, should include whether the outage occurred on covered conductor segment	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/vegetation-and-safety/vegetation-and-safety/vegetation-and-safety/2020-2028-001.pdf	1	No	NA	GIS	NA

49	MGRA	003	MGRA_003	6	No	MGRA_003_Q0	Regarding the WDRM v4 ignition probability model: a. Are the scenarios calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? If so, are they calculated per year? b. Please provide tabular data supporting each of the "Future Importance" figures in the Distribution Event Probability Models in documentation. c. If there is a single value for each geographic location, or if there are calculated on a coarse time scale (annually), then please provide GIS data for the following: tabular data for the WDRM v4 areas of the PG&E service area d. Average wildfire season daily max windspeed e. Average wildfire season relative humidity f. Percent difference from average wildfire season daily max windspeed g. Average wildfire season vapor pressure deficit h. Percent gully summer day	c. The requested geospatial data is provided in the following formats. Each dataset was exported using EPRI's GIS2025: - A shapefile is provided in the "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0001" for the following data inputs. Each row represents a distribution support structure related to WDRM v4 and the associated multi-year average values. WMP-Discovery2025-2028_DR_MGRA_003-Q0000001 Page 2 - Average wildfire season daily max windspeed - Average wildfire season relative humidity - A shapefile is provided in the Attachment "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0002" for the following data input. Each row represents a year of input data for a distribution support structure related to WDRM v4. - Percent difference from average wildfire season daily max windspeed - A point raster for the Attachment "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0003" for the following data input. The raster contains one band of data and is clipped to PG&E's service territory. - Percent gully summer day	Joseph Michal	4/11/2025	5/5/2025	5/5/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0505-003-001.pdf	1	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6(a)	Yes	MGRA_003_Q0a	Regarding the WDRM v4 ignition probability model: a. Are the scenarios calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? If so, are they calculated per year? b. Please provide tabular data supporting each of the "Future Importance" figures in the Distribution Event Probability Models in documentation. c. If there is a single value for each geographic location, or if there are calculated on a coarse time scale (annually), then please provide GIS data for the following: tabular data for the WDRM v4 areas of the PG&E service area d. Average wildfire season daily max windspeed e. Average wildfire season relative humidity f. Percent difference from average wildfire season daily max windspeed g. Average wildfire season vapor pressure deficit h. Percent gully summer day	c. The requested geospatial data is provided in the following formats. Each dataset was exported using EPRI's GIS2025: - A shapefile is provided in the "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0001" for the following data inputs. Each row represents a distribution support structure related to WDRM v4 and the associated multi-year average values. WMP-Discovery2025-2028_DR_MGRA_003-Q0000001 Page 2 - Average wildfire season daily max windspeed - Average wildfire season relative humidity - A shapefile is provided in the Attachment "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0002" for the following data input. Each row represents a year of input data for a distribution support structure related to WDRM v4. - Percent difference from average wildfire season daily max windspeed - A point raster for the Attachment "WMP-Discovery2025-2028_DR_MGRA_003-Q0000001A0003" for the following data input. The raster contains one band of data and is clipped to PG&E's service territory. - Percent gully summer day	Joseph Michal	4/11/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0506-003-001.pdf	3	No	5	Risk Methodology & Assessment	5.4
50	MGRA	003	MGRA_003	7	No	MGRA_003_Q7	Regarding Figure PG&E-4.1.3.2-1 (2026 Year Baseline) representing system-wide behavior, do the values shown in the figure include PG&E's risk rating function?	Yes, the values shown in Figure PG&E-4.1.3.2-1 (2026 Year Baseline) include PG&E's risk rating function. Please see the figures below which show the same values without the rating function (in red text as shown).	Joseph Michal	4/11/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0422-003-001.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
51	MGRA	003	MGRA_003	8	No	MGRA_003_Q8	Figure 5-1p-140 shows PG&E's fractional risk reduction on a yearly basis from 2023 to 2033. Using available data and methodology, please provide an equivalent risk reduction curve showing the fractional change of PG&E's overall service territory wildfire risk between 2017 and 2024.	PG&E did not start estimating wildfire risk reduction until 2023 with the 2023-2025 WMP cycle. The risk reduction calculations require temporal and spatial alignment across a model version, climate scenario, and model type. PG&E's current annual report datasets have only been prepared with a WDRM model release (partial full history dataset) with WDRM v4. The earliest year for which a WDRM model, represents overall segment data, and associated work items is in 2024.	Joseph Michal	4/11/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0422-003-001.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
52	MGRA	003	MGRA_003	9	No	MGRA_003_Q9	Advanced Technologies PG&E states that "in 2023, there were observed ignitions that occurred during EPRI's protection that was lower than the calculated fraction of DCO. I was identified that a lower ISF" policy could have interrupted the events sooner, potentially preventing the ignition (DCO not present). In 2024, we revised ISF trip floor settings criteria and device reprogramming observed for increased detection of high-impedance faults to 5 milliseconds (less than what's necessary)." a. Assuming that these ignitions are listed in the GIS and tabular data provided to MGRA by PG&E, estimate which of these ignitions were the high impedance faults that could potentially be detected by lower trip settings. b. What is the estimated increase in outage rate that could be caused by lowering the ISF trip floor settings to 5 milliseconds with 3 seconds? c. Did PG&E assess the "5" aspect on these and whether prediction from the current model is accurate? d. A requirement for useful predictions is that numerical models can accurately simulate the development of physical processes with certain spatial and temporal accuracy. In the second source of forecast errors, Computer responses contribute to limit the complexity and the resolution of numerical models and extrapolation. In the third, numerical predictions must be produced in a reasonable amount of time. These two sources of forecast errors cause weather forecasts to deteriorate with forecast time. e. Provide a citation for this paper.	a. Ignitions 20200602, 20200623, 20200912, 20201073, and 2021074 were the high impedance faults that could potentially be detected by lowering the ISF trip floor settings from 2023. b. PG&E has not yet determined the impact of the revised settings. Breakdown at the end of 2024 EPRI session. It is not possible to accurately evaluate any negative volatility for medium-severity weather meteorological training course (action needed). While there is not sufficient data to provide outage rate impacts at this time, there is not sufficient data to provide volatility system performance with ISF as settings are available in the 2023 EPRI session.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0416-003-001.pdf	0	No	ACI PG&E-2504-06	Evaluation and Reporting of Safety Impacts Resulting in EPRI	ACI PG&E-2504-06
53	MGRA	003	MGRA_003	10	No	MGRA_003_Q10	Please see "WMP-Discovery2025-2028_DR_MGRA_003-Q010A001.pdf" and citation below: Bates, Roberto, "Climate and weather prediction, January 2020," European Centre for medium-severity weather meteorological training course (action needed). ECMWF (2022).	Please see "WMP-Discovery2025-2028_DR_MGRA_003-Q010A001.pdf" and citation below: Bates, Roberto, "Climate and weather prediction, January 2020," European Centre for medium-severity weather meteorological training course (action needed). ECMWF (2022).	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0416-003-001.pdf	1	No	10	Situational Awareness and Forecasting	10.5
54	MGRA	003	MGRA_003	11	No	MGRA_003_Q11	Please provide tabular data in Excel spreadsheet format containing the data in the following table: a. TABLE 4-3: FREQUENTLY TOP-ENERGIZED CIRCUITS (CONTINUED) b. TABLE 4-4: SUMMARY OF TOP-RISK CIRCUITS, SEGMENTS, OR SPANS c. TABLE 5-1: PG&E PRIORITIZED AREAS BASED ON OVERALL UTILITY RISK d. TABLE 6-4: SUMMARY OF RISK REDUCTION FOR TOP RISK	Please see "WMP-Discovery2025-2028_DR_MGRA_003-Q011A001.xlsx" for all tables in PG&E's 2026-2028 WMP in Excel spreadsheet format.	Joseph Michal	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/external-and-customer-communications-and-support/2025-0416-003-001.pdf	1	No	7	Public Safety Power Shutoff	7.7&8.2
55	CEIS	002	CEIS_002	1	No	CEIS_002_Q1	PG&E states on page 108 of its 2026-2028 Base WMP that "The number of PSPS events is driven by weather, fire, and topography. PG&E uses a multi-classification historical system-level framework, a state-of-the-art open-source machine learning model based on decision trees. FPI is trained on the model the occurrence dataset developed by Bernina Technology (BNCare et al., 2023) that combines agency fire information with the fire occurrence data. Fire occurrence data is derived from fire incident data and provides information on the location, intensity and time of fires. FPI was trained on the historical dataset using defined features that include: annual, moderate, critical, and catastrophic, defined fires. These classes are determined by both fire spread and intensity. For example, a fire moving slowly but with high intensity would be defined as small, while a fast-moving, intense fire would be defined as catastrophic. These small to catastrophic definitions described here only apply to the FPI. The FPI model was trained using historical weather, fire, and topography data to be able to forecast the probability of small to catastrophic fires in both space and time. The actual FPI model outputs the conditional probability from 1 - 100% fire growth or intensity will apply to the small, moderate, critical or catastrophic classes described in the WMP. The probability of the critical and catastrophic classes combined is translated into a fire danger rating scale from R1 (low) to R5 (extreme) based on climatological conditions and correlation with historical incidents. The method returns a industry standard, for example, low values, radiative output, outputs of Energy Release Component or burning index from the Federal National Fire Danger Rating System (NFDRS) are translated to fire danger ratings from low, medium, high, very high and extreme (Note: lower range of probabilities for R4/R5 fire danger ratings system inputs and outputs). The NFDRS fire danger rating scale versus FPI is shown below: moving up the scale from R1 to R5 increases the forecasted conditional probability of critical or catastrophic growth or intensity according to the FPI definitions described above. We note that the Rating scale and not the NFDRS scale based on a historical request from agencies. Table 1: Fire potential index scale versus NFDRS rating scale and color scale WMP-Discovery2025-2028_DR_CEIS_002-Q001 Page 3 a. PG&E understands this sub-question to be related to the 2023-2025 A1-11 objective to provide missing age data in the asset register by R10, weighted average asset risk prioritization distribution and transmission equipment types. PG&E has other data remediation projects and programmatic efforts due to map correction projects that will not be covered in this response. Below are the milestones PG&E has achieved under the A1-11 objective: - In 2023, PG&E completed proof-of-concept projects to test the feasibility of manual and automated methods for locating missing age data, including field data collection, electronic records review, paper record scanning and review, and identification of PG&E age group data for the targeted equipment types. WMP-Discovery2025-2028_DR_CEIS_002-Q002 Page 2 - In 2024, PG&E piloted both automated and manual methods of identifying age data to determine the viability of each method. From these activities, PG&E determined the cost and time required to manually remediate information data and developed a pilot approach to generating Estimated Asset Age using available age group data. Table 2: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 3: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 4: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 5: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 6: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 7: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 8: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 9: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 10: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 11: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 12: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 13: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 14: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. Table 15: The probability of fire danger versus NFDRS rating scale versus A1-11 commitment generating Estimated Asset Age. 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56	CEIS	002	CEIS_002	2	No	CEIS_002_Q2	Regarding improvements to accuracy of asset inventory data: On page 108 of its 2026-2028 Base WMP, PG&E describes its objective to "validate and create new methods" to improve the accuracy of asset inventory data (ES-02) "as an effort that involves the design, development, and validation of methods to improve the accuracy of asset inventory data." Table 11, page 106 states that the objective completion date is December 31, 2028. Additionally, Table 13, page 103 identifies that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 14, page 104 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 15, page 105 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 16, page 106 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 17, page 107 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 18, page 108 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 19, page 109 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 20, page 110 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 21, page 111 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. 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Table 28, page 118 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 29, page 119 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 30, page 120 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 31, page 121 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 32, page 122 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. Table 33, page 123 states that the "FPI" is the primary method used to validate and create new methods to improve the accuracy of asset inventory data. 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131	OEIS	005	OEIS_005	3	No	OEIS_005_Q3	Regarding Distribution Routine Patrol On page 34 of PG&E's 2020-2028 Base WMP states "In 2025, PG&E will use data gathered from proven remote sensing technologies to analyze how distribution inspections could be further optimized to incorporate remote sensing techniques." Further, page 30 of PG&E may consider utilizing remote sensing in lieu of ground-based inspections at selected spots that typically have no trees around the lines, to provide customers with a more efficient utility service. a. Does the target for Distribution Routine Patrol based on Table 9-2 (M-16) include circuit miles that will be inspected only once during the year? Regarding Quality Assurance and Quality Control Unit Equivalents On page 410 of its 2020-2028 Base WMP, PG&E lists "inspections" as the "Population/Sample Unit" for VM-ROD, and VM-ROD is the "Population Size" and "Sample Size" columns. PG&E then indicates the unit is either "miles" or "spans." This makes it unclear whether the "Population/Sample Unit" is "inspections" or another factor. c. Clarify what the sample unit is for quality control and quality assurance audits (or describing): 1. The randomization software PG&E uses to select samples randomly. 2. The unit and the randomization software draws from the population to create a sample (i.e., describe if PG&E uses data from a population of inspections, miles, spans, or another sample unit). 3. Any procedural differences when auditing randomly sampled areas for VM-ROD, VM-ROD, VM-ROD, and VM-ROD? For example, procedural differences might include selecting an inspection location randomly and then auditing an entire mile in a specific direction or selecting an inspection location randomly and then auditing the span where the inspection occurs. 4. In the table below, for VM-ROD and VM-ROD, correct all values in "Population Size" and "Sample Size" columns that "miles." In actual, all additional locations are corrected to correct to 2025, 2027, or 2028.	a. No, the target for Distribution Routine Patrol based in Table 9-2 does not currently include circuit miles to be inspected using remote sensing. PG&E is analyzing remote sensing technology and distribution data in 2025 to determine what the number of miles may be inspected only once during the year. The use of remote sensing is expected to be applied where there are typically no trees in proximity to the line. b. N/A. c. 1. OC (VM-ROD, -22P and -22T) Excel will be used as our randomization tool in 2020-28 for both distribution and transmission. 2. OC (VM-ROD) Distribution uses ArcGIS Pro to randomize sample locations with Python tools. 3. QA (VM-ROD) Transmission is randomized by excel. 4. OC (VM-ROD) The randomization software selects from a population of Work Patches consisting of spans inspected. 5. OC (VM-ROD) The randomization software selects from a population of Work Patches consisting of a group of individual inspected locations. Transmission locations may consist of individual spans, portions of spans or multiple spans inspected, depending on the system of record, as described in greater detail in OEIS_001_Q001. 6. OC (VM-ROD) The randomization software selects from a population of poles inspected within Work Patches. 7. OC (VM-ROD) The randomization software selects from a population of Distribution.	Nathan Poon	4/22/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/underground-and-overhead/2020-2028-wmp.pdf	0	No	9	Vegetation Management and Inspections	9.2.1
132	OEIS	005	OEIS_005	4	No	OEIS_005_Q4	Regarding Quality Control - Pole Clearing (VM-22P) Target On page 7 of its 2020-2028 Base WMP, PG&E lists 99,933 poles as the population size for its annual Quality Control of Pole Clearing activity. On page 356 of its 2020-2028 Base WMP, PG&E targets 70,000 pole annual for its Pole Clearing (VM-22P) activity. a. Explain why PG&E's audit population for quality control is 29,933 more poles than targets for its pole clearing activity each year.	We apologize the discrepancy is due to an inadvertent error. The correct population number of Quality Control Pole Clearing poles in P&E and P&E D is the sampled from is 70,000 annually, not 99,933 poles.	Nathan Poon	4/22/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/pge/docs/outage-and-safety/underground-and-overhead/2020-2028-wmp.pdf	0	No	9	Vegetation Management and Inspections	9.4
134	OEIS	005	OEIS_005	6	No	OEIS_005_Q6	Regarding Risk Model Validation a. In PG&E's response to data request OEIS-A-WMP-2025-PG&E-002, Question 14, PG&E states that "the team indicated a new validation to confirm the results by evaluating against historical data" and that the validation "resulted in the removal of several lightning fires from the consequence training data set." b. Provide the date the validation was completed, if more than one month and year. c. Provide the data the model was updated as a result of this validation, including, at minimum the month(s) and year. d. Provide a description of what PG&E is planning on implementing changes related to climate-driven risk as it relates to the research paper in figure PG&E-5.3-2.1. e. Provide a timeline, with dates of a month, quarter and year for when PG&E is planning on implementing changes related to climate-driven risk as it relates to the findings from the research paper referenced in figure PG&E-5.3-2. f. If no such changes are planned related to the figure, describe why no such changes are planned.	1. The validation task was executed during the months of August to December 2023 as part of the Wildfire Consequence v4 model development and validation. 2. WMP-2025-PG&E-002, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100, Q101, Q102, Q103, Q104, Q105, Q106, Q107, Q108, Q109, Q110, Q111, Q112, Q113, Q114, Q115, Q116, Q117, Q118, Q119, Q120, Q121, Q122, Q123, Q124, Q125, Q126, Q127, Q128, Q129, Q130, Q131, Q132, Q133, Q134, Q135, Q136, Q137, Q138, Q139, Q140, Q141, Q142, Q143, Q144, Q145, Q146, Q147, Q148, Q149, Q150, Q151, Q152, Q153, Q154, Q155, Q156, Q157, Q158, Q159, Q160, Q161, Q162, Q163, Q164, Q165, Q166, Q167, Q168, Q169, Q170, Q171, Q172, Q173, Q174, Q175, Q176, Q177, Q178, Q179, Q180, Q181, Q182, Q183, Q184, Q185, Q186, Q187, Q188, Q189, Q190, Q191, 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Q1019, Q1020, Q1021, Q1022, Q1023, Q1024, Q1025, Q1026, Q1027, Q1028, Q1029, Q1030, Q1031, Q1032, Q1033, Q1034, Q1035, Q1036, Q1037, Q1038, Q1039, Q1040, Q1041, Q1042, Q1043, Q1044, Q1045, Q1046, Q1047, Q1048, Q1049, Q1050, Q1051, Q1052, Q1053, Q1054, Q1055, Q1056, Q1057, Q1058, Q1059, Q1060, Q1061, Q1062, Q1063, Q1064, Q1065, Q1066, Q1067, Q1068, Q1069, Q1070, Q1071, Q1072, Q1073, Q1074, Q1075, Q1076, Q1077, Q1078, Q1079, Q1080, Q1081, Q1082, Q1083, Q1084, Q1085, Q1086, Q1087, Q1088, Q1089, Q1090, Q1091, Q1092, Q1093, Q1094, Q1095, Q1096, Q1097, Q1098, Q1099, Q1100, Q1101, Q1102, Q1103, Q1104, Q1105, Q1106, Q1107, Q1108, Q1109, Q1110, Q1111, Q1112, Q1113, Q1114, Q1115, Q1116, Q1117, Q1118, Q1119, Q1120, Q1121, Q1122, Q1123, Q1124, Q1125, Q1126, Q1127, Q1128, Q1129, Q1130, Q1131, Q1132, Q1133, Q1134, Q1135, Q1136, Q1137, Q1138, Q1139, Q1140, Q1141, Q1142, Q1143, Q1144, Q1145, Q1146, Q1147, Q1148, Q1149, Q1150, Q1151, Q1152, Q1153, Q1154, Q1155, Q1156, Q1157, Q1158, Q1159, Q1160, Q1161, 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145	SPD	003	SPD_003	8	No	SPD_003_Q8	Provide additional explanation on the discussion in section 8.2.2 under the heading "Impacts on Likelihood and Consequence of Program Events". The questions below are posed under the assumption that the lines would not be subject to PSPS/EPSS conditions due to overhead line upturn or downturn. a. For circuit segments where there are covered conductor miles threatened 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? If so, if there is a 5-mile undergrounded circuit segment that has only 100 miles of covered conductor and that circuit segment is subject to PSPS conditions, would it be 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.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
146	SPD	003	SPD_003	9	No	SPD_003_Q9	The system target for GH404 is 370 miles in 2026. PG&E previously forecasted a target of 440 miles. a. Provide the breakdown for miles related to Baku Community Reliability in 2026. b. The WMP states the reduction is iterative. PG&E forecasts being able to achieve the risk reduction in the GHRC with less miles than previously forecasted. Provide a high-level justification for this number. The justification should be designated 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 WMPDR of 8. In Action Letter 7312-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 53.5 WMPDR v2 miles and 275.1 WMPDR v1 miles of hardening to be completed in 2026. On these numbers account for the changed forecast in GH404? d. If so, please provide how many WMPDR v2 miles of undergrounding and how many WMPDR v3 miles of undergrounding PG&E now forecasts as being completed in 2026 in order to satisfy the risk reduction target adopted in CPUC 23-02-15-009. e. If not, provide the new forecast of WMPDR v2 miles and WMPDR v3 miles of hardening to be completed in 2026. Also provide how much of the updated forecast of WMPDR v2 miles and WMPDR v3 miles of hardening that PG&E forecasts would be undergrounding to be completed in 2026.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	GH404	GH404	GH404
147	SPD	003	SPD_003	10	No	SPD_003_Q10	In the 2024 QDR updated data set, the polygons GH401 and GH404 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 in-situ configuration of the system. Additionally, answer the following: a. SP&D assumed the features in the data set which states "right" and "left" would distinguish between undergrounded and covered conductor, but is finding these numbers do not add up to the completed miles. a. SP&D assumed the features in the data set which states "right" and "left" would distinguish between undergrounded and covered conductor, but is finding these numbers do not add up to the completed miles. b. SP&D assumed the length of the polygons added to 2017 GH401 (Status/Complete, Completion Date = All), but the reported actual number of miles completed in the tabular QDR is 346 miles. Explain why the difference is not equal to the 346 miles. c. Some GH401 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.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	GH404	GH404	GH404
148	SPD	003	SPD_003	11	No	SPD_003_Q11	Provide an update for full 2024 year data to "WMP-Chowdhury2023-0228_DR_SPD_019-0212.pdf" and the supplemental response.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	9	Vegetation Management and Inspections	9
149	SPD	003	SPD_003	12	No	SPD_003_Q12	Provide the data in Tables 1 through 3 for each of PG&E's 2023-2025 WMP planned Vegetation Management Programs and PG&E's 2023-2025 WMP Programs. There should be one spreadsheet for each of the Vegetation Management Programs listed in Tables 4 and 5. a. Discuss how PG&E's evaluation of Focused Tree Inspection, Tree Removal Inventory, and Vegetation Management for Operational Mitigation for consideration into its distribution inspection may change the forecasts in Tables 3. b. For the 2023-2025 WMPs, SP&D expects the individual programs to be reported on to include: Table 4: List of Vegetation Management Programs 2023-2025 For the 2023-2025 WMPs, SP&D expects the individual programs to be reported on to include: Table 5: List of Vegetation Management Programs 2023-2025	Henry Sweet	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	1	No	9	Vegetation Management and Inspections	9
150	SPD	003	SPD_003	13	No	SPD_003_Q13	Complete the Tables 1 through 3 at the systemwide and HFTD scale for all of PG&E's Vegetation Management Programs, the total number of trees removed vegetation and separately the total number of trees removed in the HFTD.	Henry Sweet	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	1	No	9	Vegetation Management and Inspections	9
151	SPD	003	SPD_003	14	No	SPD_003_Q14	For each vegetation management program in the 2024-2025 WMP, specify if the Quality Assurance and Quality Control assessments include verification of the height and distance to the conductor of each wire vegetation point specified for removal, and each vegetation wire point noted in an inventory tree.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	9	Vegetation Management and Inspections	9
152	SPD	003	SPD_003	15	No	SPD_003_Q15	Provide PG&E's latest estimates for the number of alpha 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	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	9	Vegetation Management and Inspections	9
153	MORA	005	MORA_005	1	No	MORA_005_Q01	Followups to Data Request Responses: WMP-Chowdhury2023-0228_DR_005_001-0022 MORA-5-1 For the three technologies listed in PG&E's responses to the CEIS data request (EFO, DSA, Distribution), provide a year estimate of the equipment of these devices for 2026, 2027, and 2028 in the HFRAs/HFTD. a. The number of devices to be deployed. b. The miles of overhead conductor to be monitored by these technologies in the HFTD v2 miles. c. The functional coverage of the overhead conductor system. d. The estimated cumulative risk reduction due to the deployment of that technology.	Joseph Michael	4/25/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/docs/overhead-and-undergrounded-reduction-for-pssp-events-at-a-high-level	0	No	10	Situational Awareness and Forecasting	10.4.10.31

Page 20

267	SPO	004	SPO_004	5(a)	Yes	SPO_004_OIGs	In Section 4.1.2.1 PG&E's model asserts that The literature on structure loss is widely a literature and lists a number of studies that support the use of the literature on structure loss loss. These include housing materials, age of neighborhood, density of neighborhood and separation of houses, proximity of vegetation to the structure, enclosed areas and yards, and others. How does PG&E's structure loss model incorporate other variables that are specific to the structure, maintained landscapes, and neighborhoods? Please provide the numerical values that were used in Figures 9 and 10. Figure 10 implies that for TDH that the probability of structure is very small (results for loss < 0.3 > loss < 0.3), and that for TDH probability of structure loss is very large (results for loss > 0.7 > loss > 0.7). Does this imply that PG&E's model assumes that home survival fraction is primarily dependent on the availability of building resources? If so, what justification (analysis or additional data, if possible, for this assertion)?	PG&E is providing the following data in attachment "WMP-Discovery2026-2028_DR_SPO_004-Q003Appendix1.xlsx" in the worksheet tabbed "Primary" • Risk Reduction Achieved by UG in Year • Risk Reduction Achieved by UG in Year • Risk Reduction Achieved by UG in Year WMP-Discovery2026-2028_DR_SPO_004-Q003Appendix4 Page 2 Risk Reduction Achieved by UG in Year Additionally, please note that PG&E has determined that 2026 values in the "Total Elevation" table for CH, LG, Low Floodway, and Station Housing were mistakenly not represented in the table. PG&E provides alternate values with this response. All details are included in the spreadsheet. The following responses pertain to the information provided in the spreadsheet: 2026_DR_SPO_004-Q003Appendix1.xlsx For the CBRs provided in the "Primary" tab, Column S2 - TW, please note: 1. PG&E is using a single escalation factor (consisting of nominal discount and inflation rates) for all costs in the CBR calculation for all projects from 2023 through 2026. Escalating costs to a different base year to align with each of the different project years would require us to build a new tool for each year. Building a new tool for each year would be burdensome given that we expect there would be only a minor difference in the CBR using the single escalation factor compared to using a year specific escalation factor since the CBR is mostly influenced by risk and cost. 2. Most underground system hardening projects take approximately three to four years to complete and include pre-construction, construction and project close out activities. The pre-construction work includes surveying and sampling, design, permitting, material acquisition and vegetation work. Construction includes both civil and electrical activities such as digging trenches, installing conduit, and pulling cables through the conduit. Project close out includes paving, restoration, repaving and finalizing project documentation. The costs through each of the undergrounding work to not necessarily correlate with the risks related to materials, risks and material during pre-construction and through each of the required for designing, permitting and material acquisition. Therefore, the annual CBRs are not intended to provide the data needed as we not necessarily correlate the work that is occurring. For example, during pre-construction PG&E will incur costs to perform activities that will not reduce risk because we won't be relocating primary lines underground and the CBR will reflect costs incurred with no benefits achieved even though we are performing work that is necessary for the undergrounding project. 3. PG&E is using the risk values from WORM v4 as the basis for the CBRs provided in the data response even though certain projects were selected and planned based on earlier versions of the WORM Distribution Risk Model. There are often changes to circuit segments from one version of the WORM to the next. For example, a circuit segment from WORM v4 may be split into two circuit segments in WORM v4 or two circuit segments in WORM v4 may be merged into a single.	Joseph Mitchell	5/5/2025	7/20/2025	7/20/2025	https://www.pge.com/news/pge/docs/tables-and-safefiles/tables-prepandocs-and-support/2026-2028-SPO_004.xlsx	1	No	5	Risk Methodology & Assessment	5.4
268	SPO	004	SPO_004	5(a)	Yes	SPO_004_OIGs	In Section 4.1.2.1 PG&E's model asserts that The literature on structure loss is widely a literature and lists a number of studies that support the use of the literature on structure loss loss. These include housing materials, age of neighborhood, density of neighborhood and separation of houses, proximity of vegetation to the structure, enclosed areas and yards, and others. How does PG&E's structure loss model incorporate other variables that are specific to the structure, maintained landscapes, and neighborhoods? Please provide the numerical values that were used in Figures 9 and 10. Figure 10 implies that for TDH that the probability of structure is very small (results for loss < 0.3 > loss < 0.3), and that for TDH probability of structure loss is very large (results for loss > 0.7 > loss > 0.7). Does this imply that PG&E's model assumes that home survival fraction is primarily dependent on the availability of building resources? If so, what justification (analysis or additional data, if possible, for this assertion)?	PG&E is providing the following data in attachment "WMP-Discovery2026-2028_DR_SPO_004-Q003Appendix1.xlsx" in the worksheet tabbed "Primary" • Risk Reduction Achieved by UG in Year • Risk Reduction Achieved by UG in Year • Risk Reduction Achieved by UG in Year WMP-Discovery2026-2028_DR_SPO_004-Q003Appendix4 Page 2 Risk Reduction Achieved by UG in Year Additionally, please note that PG&E has determined that 2026 values in the "Total Elevation" table for CH, LG, Low Floodway, and Station Housing were mistakenly not represented in the table. PG&E provides alternate values with this response. All details are included in the spreadsheet. The following responses pertain to the information provided in the spreadsheet: 2026_DR_SPO_004-Q003Appendix1.xlsx For the CBRs provided in the "Primary" tab, Column S2 - TW, please note: 1. PG&E is using a single escalation factor (consisting of nominal discount and inflation rates) for all costs in the CBR calculation for all projects from 2023 through 2026. Escalating costs to a different base year to align with each of the different project years would require us to build a new tool for each year. Building a new tool for each year would be burdensome given that we expect there would be only a minor difference in the CBR using the single escalation factor compared to using a year specific escalation factor since the CBR is mostly influenced by risk and cost. 2. Most underground system hardening projects take approximately three to four years to complete and include pre-construction, construction and project close out activities. The pre-construction work includes surveying and sampling, design, permitting, material acquisition and vegetation work. Construction includes both civil and electrical activities such as digging trenches, installing conduit, and pulling cables through the conduit. Project close out includes paving, restoration, repaving and finalizing project documentation. The costs through each of the undergrounding work to not necessarily correlate with the risks related to materials, risks and material during pre-construction and through each of the required for designing, permitting and material acquisition. Therefore, the annual CBRs are not intended to provide the data needed as we not necessarily correlate the work that is occurring. For example, during pre-construction PG&E will incur costs to perform activities that will not reduce risk because we won't be relocating primary lines underground and the CBR will reflect costs incurred with no benefits achieved even though we are performing work that is necessary for the undergrounding project. 3. PG&E is using the risk values from WORM v4 as the basis for the CBRs provided in the data response even though certain projects were selected and planned based on earlier versions of the WORM Distribution Risk Model. There are often changes to circuit segments from one version of the WORM to the next. For example, a circuit segment from WORM v4 may be split into two circuit segments in WORM v4 or two circuit segments in WORM v4 may be merged into a single.	Joseph Mitchell	5/5/2025	7/15/2025	7/15/2025	https://www.pge.com/news/pge/docs/tables-and-safefiles/tables-prepandocs-and-support/2026-2028-SPO_004.xlsx	1	No	5	Risk Methodology & Assessment	5.4
269	SPO	008	SPO_008	1	No	SPO_008_OI	On June 20, 2025, PG&E served a Compliance Filing in response to an April 22, 2025 ALJ ruling in A-24-05-008 requiring PG&E to disaggregate its approach generating a monetized value of electric reliability using the Interchange Cost Estimation (ICE) calculator. In its Compliance Filing, PG&E stated that "PG&E has addressed the ALJ ruling requirement using the ICE 2.0 calculator rather than the ICE 1.0 calculator." PG&E also presented eight appendices to Appendices A and B. Appendix A included the Excel file named "Appendix A.1 PG&E 2027 GRC Risk Values with Electric Reliability Scenario.xlsx" with a spreadsheet called "PG&E 2027 GRC Risk Values". Explain what are the values associated with Columns F and H in the "ICE 1.0 disaggregated" values in spreadsheet "PG&E 2027 GRC Risk Values" and what approach was used to generate those values. a. In the approach used to generate the values described as "ICE 1.0 disaggregated" the same as the approach used to generate the values in the RRAMRCB-14 PG&E 2024 RAMP Risk Values, "CEC-Calculat" by Event (add DUNGS) also worksheet that PG&E submitted with its supplemental response to the RRAMRCB-14 PG&E 2024 RAMP Risk Values. b. If not, explain what approach was used to generate the "ICE 1.0 disaggregated" values in PG&E 2027 GRC Risk Values. c. If not, explain why PG&E did not use the approach recommended by the SPO evaluation report in the ALJ Ruling from April 22, 2025. d. List each of the monetized values of electric reliability that PG&E generated using the ICE Calculator that then are presented in Columns E, F, G and H in the "PG&E 2027 GRC Risk Values" spreadsheet. This should be presented in BCM. e. Explain how PG&E generated each of these values with reference to the office ICE models used by PG&E.	Sector ICE 1.0 BCM Residential 0.05 Non-Residential 29.17 3.37 Notes: \$3.33BCM is used in monetizing electric reliability risk in PG&E's 2027 GRC filing	Edwin Schmitt	06/23/2025	7/3/2025	7/3/2025	https://www.pge.com/news/pge/docs/tables-and-safefiles/tables-prepandocs-and-support/2026-2028-SPO_008.xlsx	0	No			
270	SPO	008	SPO_008	2	No	SPO_008_O2	Provide copies of the four (or more) office ICE models that PG&E used to generate the values listed in Question 1b. This should be equivalent to RRAMRCB-14 Model, "CEC-Calculat" spreadsheet. PG&E 2024 RAMP Risk Values submitted with the 2024 RAMP or the ICE 2.0 Estimate, Interchange Costs, 2025-24-26.xlsx available from Lawrence Berkeley National Lab by request 141. Provide a model in the document and the SPO staff can review how PG&E arrived at the monetized value of electric reliability. a. Provide a copy of the PG&E data that formed each of the office models described in Question 2. This should be equivalent to RRAMRCB-14 PG&E Data for ICE Calculator also that was submitted with PG&E 2024 RAMP Risk Values.	With respect to the ICE 1.0 model, 2027 GRC Exhibit (PG&E-2) WFP-1-04, Module 1- Estimate, Interchange Costs, w/PG&E input 2027 data was used for both aggregated and disaggregated approach. a. The customer counts and usage per customer used in ICE 1.0 for the 2027 General Rate Case (GRC) filing are based on historical 2024 customer use provided in the February 2024 version of PG&E's 2023 Rates Review. With respect to the input used for ICE 1.0 model, please see 2027 GRC Exhibit (PG&E-2) WFP-1-05, PG&E Data for ICE Calculator 2024. For ICE 2.0, customer counts as of May 8, 2025, were sourced from PG&E's internal system tracking utility usage per customer figures were shared from the same 2025 Rates Forecast. The percentages of manufacturing and health care customers were tracked using actual recorded consumption data spanning 2022 through 2024. Estimates for the percentages of customers with Backup Generators (BG) and those relying on their own power were based on PG&E-specific customer surveys developed and administered by LB&E, and Resource Innovations (LB&E is a subsidiary of the ICE 2.0 model). PG&E objects to this request because it is not related to the WMP processing and exceeds the scope of that processing. This request would be more appropriately served as non-case discovery or in a different regulatory proceeding. Note that PG&E is not permitted to share office ICE 2.0 model values of the organization. The office ICE 2.0 model may be requested from LB&E, though it is not required to replicate the dollars per customer revenue-dispatched (BCRM) values that PG&E generated using ICE 2.0 as there is no online interface available at calculator.com. PG&E also offers to meet directly with Safety Policy Division and walk through the office ICE 2.0 calculator used in support of the ALJ Compliance Filing in A-24-05-008. However, PG&E's BCRM values may also be generated through the office ICE 2.0 calculator using the inputs provided in AppendixB, ICE2.0 Input Computation.xlsx file of the Compliance Filing.	Edwin Schmitt	06/23/2025	7/3/2025	7/3/2025	https://www.pge.com/news/pge/docs/tables-and-safefiles/tables-prepandocs-and-support/2026-2028-SPO_008.xlsx	0	No			
271	SPO	008	SPO_008	3	No	SPO_008_O3	Recreate the "Interchange Outcome Analysis" spreadsheet from RRAMRCB-14 PG&E 2024 RAMP Risk Values, "CEC-Calculat" by Event (add DUNGS) also that was submitted with PG&E 2024 RAMP Risk Values, "CEC-Calculat" by Event (add DUNGS) also that was submitted with PG&E 2024 RAMP Risk Values. a. ICE 1.0 disaggregated (Column E) b. ICE 1.0 disaggregated (Column F) c. ICE 1.0 disaggregated (Column G) d. ICE 1.0 disaggregated (Column H) e. ICE 2.0 disaggregated (Column I)	PG&E objects to this request because it is not related to the WMP processing and exceeds the scope of that processing. This request would be more appropriately served as non-case discovery or in a different regulatory proceeding. Note that PG&E is not permitted to share office ICE 2.0 model values of the organization. The office ICE 2.0 model may be requested from LB&E, though it is not required to replicate the dollars per customer revenue-dispatched (BCRM) values that PG&E generated using ICE 2.0 as there is no online interface available at calculator.com. PG&E also offers to meet directly with Safety Policy Division and walk through the office ICE 2.0 calculator used in support of the ALJ Compliance Filing in A-24-05-008. However, PG&E's BCRM values may also be generated through the office ICE 2.0 calculator using the inputs provided in AppendixB, ICE2.0 Input Computation.xlsx file of the Compliance Filing. For ICE 2.0, customer counts as of May 8, 2025, were sourced from PG&E's internal system tracking utility usage per customer figures were shared from the same 2025 Rates Forecast. The percentages of manufacturing and health care customers were tracked using actual recorded consumption data spanning 2022 through 2024. Estimates for the percentages of customers with Backup Generators (BG) and those relying on their own power were based on PG&E-specific customer surveys developed and administered by LB&E, and Resource Innovations (LB&E is a subsidiary of the ICE 2.0 model). PG&E objects to this request because it is not related to the WMP processing and exceeds the scope of that processing. This request would be more appropriately served as non-case discovery or in a different regulatory proceeding. Note that PG&E is not permitted to share office ICE 2.0 model values of the organization. The office ICE 2.0 model may be requested from LB&E, though it is not required to replicate the dollars per customer revenue-dispatched (BCRM) values that PG&E generated using ICE 2.0 as there is no online interface available at calculator.com. PG&E also offers to meet directly with Safety Policy Division and walk through the office ICE 2.0 calculator used in support of the ALJ Compliance Filing in A-24-05-008. However, PG&E's BCRM values may also be generated through the office ICE 2.0 calculator using the inputs provided in AppendixB, ICE2.0 Input Computation.xlsx file of the Compliance Filing. For ICE 2.0, customer counts as of May 8, 2025, were sourced from PG&E's internal system tracking utility usage per customer figures were shared from the same 2025 Rates Forecast. The percentages of manufacturing and health care customers were tracked using actual recorded consumption data spanning 2022 through 2024. Estimates for the percentages of customers with Backup Generators (BG) and those relying on their own power were based on PG&E-specific customer surveys developed and administered by LB&E, and Resource Innovations (LB&E is a subsidiary of the ICE 2.0 model). PG&E objects to this request because it is not related to the WMP processing and exceeds the scope of that processing. This request would be more appropriately served as non-case discovery or in a different regulatory proceeding. Note that PG&E is not permitted to share office ICE 2.0 model values of the organization. The office ICE 2.0 model may be requested from LB&E, though it is not required to replicate the dollars per customer revenue-dispatched (BCRM) values that PG&E generated using ICE 2.0 as there is no online interface available at calculator.com. PG&E also offers to meet directly with Safety Policy Division and walk through the office ICE 2.0 calculator used in support of the ALJ Compliance Filing in A-24-05-008. However, PG&E's BCRM values may also be generated through the office ICE 2.0 calculator using the inputs provided in AppendixB, ICE2.0 Input Computation.xlsx file of the Compliance Filing.	Edwin Schmitt	06/23/2025	7/3/2025	7/3/2025	https://www.pge.com/news/pge/docs/tables-and-safefiles/tables-prepandocs-and-support/2026-2028-SPO_008.xlsx	1	No			

272	SPD	008	SPD_008	4	No	SPD_008_Q4	In a supplemental response to SPD-PGE-WMP2028-004 Question 4, PGE stated that it has responded to the data requested by "revising the ICE 2.0 disaggregated values (SD1-CMGR for residential, SD1-11CGR for nonresidential)". In its Compliance Filing in its 2027 GRC, PGE stated "PGE continues to stand by its 2027 GRC cost analysis using a representative, aggregated electric reliability value, developed based on the best judgment and analysis available at the time of GRC filing." a. Confirm that by "aggregated electric reliability value" PGE is referring to the "ICE 1.0 aggregated" values that were submitted with both the WMP and the initially 2027 GRC Application. b. In PGE considering using the ICE 2.0 calculator in a future WMP update? Explain. c. If the answer to 1a is yes and either 4b, or 4c, is yes, explain why PGE stands by its "aggregated electric reliability value" using ICE 1.0 in its 2027 GRC filing. d. In PGE considered that standing behind core value in the 2027 GRC filing but standing behind another value in a future WMP update or future ELP submission would constitute "flip-flopping"? e. In PGE's third supplemental response to Question 5 of SPD-PGE-WMP2028-004, PGE stated the following: "With respect to the values of fields provided with the response, please note that, consistent with PGE's prior responses, PGE is providing units, other risks. Further, please note that there are only associated with critical segments that are not present in the requested list of critical segments, therefore that data is not included in the response." f. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. g. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. h. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. i. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. j. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. k. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. l. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. m. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. n. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. o. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. p. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. q. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. r. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. s. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. t. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. u. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. v. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. w. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. x. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. y. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments. z. Explain why critical segments that include units of mitigation presented in the 2026-2028 Base WMP are not included in the requested list of critical segments.	Edwin Schmitt	6230205	73/0225	73/0225	https://www.pge.com/assets/pge/docs/outreach_and_public_input/2026-2028-SPD_008.pdf	0	No			
273	SPD	009	SPD_009	1	No	SPD_009_Q1	MANIPSA 210135344 UPPER LAKE 1101276 Yes No DUNBAR 1103354 No PARADISE 11063642 Yes No MANIPSA 11044308 No	Edwin Schmitt	73/0225	73/0225	73/0225	https://www.pge.com/assets/pge/docs/outreach_and_public_input/2026-2028-SPD_009.pdf	1	No	Risk Methodology & Assessment	5.4	
274	SPD	009	SPD_009	2	No	SPD_009_Q2	PGE's third supplemental response to Question 5 of SPD-PGE-WMP2028-004 included the dataset labeled "WMP-Disaggregated-2028_DR_SPD_004-GD0345678901011" also in the "Threat" spreadsheet under the "WORM v4" portion of the dataset of the "Post-Mitigation" fields (Columns AB-AF) have now been given NA or "See other response" values. a. Explain why PGE has included "See other response" for some circuit segments. b. Explain why PGE has included "See other response" for some circuit segments. c. Explain why PGE has included "See other response" for some circuit segments. d. Explain why PGE has included "See other response" for some circuit segments. e. Explain why PGE has included "See other response" for some circuit segments. f. Explain why PGE has included "See other response" for some circuit segments. g. Explain why PGE has included "See other response" for some circuit segments. h. Explain why PGE has included "See other response" for some circuit segments. i. Explain why PGE has included "See other response" for some circuit segments. j. Explain why PGE has included "See other response" for some circuit segments. k. Explain why PGE has included "See other response" for some circuit segments. l. Explain why PGE has included "See other response" for some circuit segments. m. Explain why PGE has included "See other response" for some circuit segments. n. Explain why PGE has included "See other response" for some circuit segments. o. Explain why PGE has included "See other response" for some circuit segments. p. Explain why PGE has included "See other response" for some circuit segments. q. Explain why PGE has included "See other response" for some circuit segments. r. Explain why PGE has included "See other response" for some circuit segments. s. Explain why PGE has included "See other response" for some circuit segments. t. Explain why PGE has included "See other response" for some circuit segments. u. Explain why PGE has included "See other response" for some circuit segments. v. Explain why PGE has included "See other response" for some circuit segments. w. Explain why PGE has included "See other response" for some circuit segments. x. Explain why PGE has included "See other response" for some circuit segments. y. Explain why PGE has included "See other response" for some circuit segments. z. Explain why PGE has included "See other response" for some circuit segments.	Edwin Schmitt	73/0225	73/0225	73/0225	https://www.pge.com/assets/pge/docs/outreach_and_public_input/2026-2028-SPD_009.pdf	0	No	Risk Methodology & Assessment	5.4	
275	SPD	009	SPD_009	3	No	SPD_009_Q3	PGE's third supplemental response to Question 5 of SPD-PGE-WMP2028-004 included the dataset labeled "WMP-Disaggregated-2028_DR_SPD_004-GD0345678901011" also in the "Threat" spreadsheet under the "WORM v4" portion of the dataset of the "Post-Mitigation" fields (Columns AB-AF) have now been given NA or "See other response" values. a. Explain why PGE has included "See other response" for some circuit segments. b. Explain why PGE has included "See other response" for some circuit segments. c. Explain why PGE has included "See other response" for some circuit segments. d. Explain why PGE has included "See other response" for some circuit segments. e. Explain why PGE has included "See other response" for some circuit segments. f. Explain why PGE has included "See other response" for some circuit segments. g. Explain why PGE has included "See other response" for some circuit segments. h. Explain why PGE has included "See other response" for some circuit segments. i. Explain why PGE has included "See other response" for some circuit segments. j. Explain why PGE has included "See other response" for some circuit segments. k. Explain why PGE has included "See other response" for some circuit segments. l. Explain why PGE has included "See other response" for some circuit segments. m. Explain why PGE has included "See other response" for some circuit segments. n. Explain why PGE has included "See other response" for some circuit segments. o. Explain why PGE has included "See other response" for some circuit segments. p. Explain why PGE has included "See other response" for some circuit segments. q. Explain why PGE has included "See other response" for some circuit segments. r. Explain why PGE has included "See other response" for some circuit segments. s. Explain why PGE has included "See other response" for some circuit segments. t. Explain why PGE has included "See other response" for some circuit segments. u. Explain why PGE has included "See other response" for some circuit segments. v. Explain why PGE has included "See other response" for some circuit segments. w. Explain why PGE has included "See other response" for some circuit segments. x. Explain why PGE has included "See other response" for some circuit segments. y. Explain why PGE has included "See other response" for some circuit segments. z. Explain why PGE has included "See other response" for some circuit segments.	Edwin Schmitt	73/0225	73/0225	73/0225	https://www.pge.com/assets/pge/docs/outreach_and_public_input/2026-2028-SPD_009.pdf	2	No	5	Risk Methodology & Assessment	5.2.2
276	SPD	009	SPD_009	4	No	SPD_009_Q4	In response to Question 23 of SPD-PGE-WMP2028-004, PGE stated that the Decision-Trees in Figures PGE-8.2.1, PGE-8.2.2, and PGE-8.2.3 in the 2026-2028 Base WMP are in fact one single decision tree connected together and that there are five results from the decision tree: (1) do not implement system hardening; (2) implement 100% overhead hardening solution; (3) implement 100% undergrounding solution; (4) implement hybrid hardening solution where portions of a line are undergrounded and other portions are overhead hardened; and (5) implement a removal with remote grid solution. a. Provide an example circuit segment from each of the five results. For each of the five circuit segments, provide a step-by-step explanation of each decision that PGE needed to make and each analysis PGE needed to conduct in order to arrive at the final result for each circuit segment. b. At each step in the explanation of the five circuit segments, provide a level of accuracy of cost estimates at each point in the process. PGE should reference the Association for the Advancement of Civil Engineering (AAACE) results in understanding the accuracy of the cost estimates. c. Explain PGE's values for among the decision-tree to include word "if", which is not implement system hardening. d. For result #4, explain what is meant by "removal of a line". e. Explain how PGE is determining whether the line removal with remote grid solution would be an economical solution.	Edwin Schmitt	73/0225	73/0225	73/0225	https://www.pge.com/assets/pge/docs/outreach_and_public_input/2026-2028-SPD_009.pdf	0	No	5	Risk Methodology & Assessment	5.2.2

