

21	OEIS	001	OEIS_001	11	No	OEIS_001_011	<p>Regarding Enterprise System Qualitative Targets On pages 135-138 of the WMP, PG&E provides qualitative target ES-01: a. Provide the current data quality, profiling, and monitoring practices used for VM data. b. Provide the data quality, profiling, and monitoring practices planned for use under ES-01. c. List the datasets that have been identified as critical for VM execution.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	12	Enterprise Systems	12.2
22	OEIS	001	OEIS_001	12	No	OEIS_001_012	<p>Regarding PG&E-2501-08, Resection of Trees in Tree Removal Inventory On page 142 of the WMP, PG&E provides a response to PG&E-2501-08 indicating "In late 2024, PG&E began planning a pilot to reevaluate trees listed for work within Buena County." a. Provide pilot study procedure(s). b. Provide pilot results. c. Provide any study results.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	9	Vegetation Management & Inspections	9.2.1
23	OEIS	001	OEIS_001	13	No	OEIS_001_013	<p>Regarding Wood and Slash Management Tracking Section 9.5.3 of PG&E's 2025-2028 WMP states that "Debris management is completed in coordination with tree work across PG&E's service area. Wood removal activities are typically completed within 90 days of tree work project completion across PG&E's service area, unless affected by weather, field conditions, or other constraints" (p. 381). a. Does PG&E document and track the management of slash and woody debris that is a byproduct of VM work? b. If yes, explain. c. Describe the documentation and record keeping methods used. d. List the data fields that are recorded as part of the wood and slash debris management tracking process. e. How PG&E measures wood and slash management in completed or all VM treatment areas according to the Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. f. How PG&E integrates wood and slash debris management tracking into internal procedures similar to tracking the completion of other VM orders.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	9	Vegetation Management & Inspections	9.5
24	OEIS	001	OEIS_001	14	No	OEIS_001_014	<p>Regarding Wood and Slash Management Impacts on Wildlife Risk PG&E-2501-09, regarding Wood Management Procedures, requires an updated Wood Management Procedure that "includes the wildlife risk related to accumulated fuels generated by PG&E's vegetation management activities." (On page 142 of the WMP, PG&E states that updates to Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01 include "alignment to industry practices related to accumulated fuels generated by VM activities." a. Clarify what industry practices PG&E is referring to. b. Explain how wildlife risk related to accumulated fuels generated by PG&E's vegetation management activities is considered in Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	9	Vegetation Management & Inspections	9.5
25	OEIS	001	OEIS_001	15	No	OEIS_001_015	<p>Regarding Wood and Slash Management Benchmarking In response to PG&E-238-16, Updating Wood Management Procedures, PG&E states that benchmarking meetings with SCE and PG&E's to discuss wood management began in 2023 (p. 380) and benchmarking is targeted to be completed by September 30, 2028 (p. 364). These discussions with SCE and SDG&E and a review of Liberty's procedure book "Native Shrub" to the Wood Management Standard and Procedures, though, "adopt a consistent approach across utilities." (PG&E) aligned and updated our Standard and Procedures to reflect the common ground of PRC 4291 (p. 586). Future benchmarking meeting topics are expected to include consideration of whether each utility's respective wood management policy meet the required progress defined in the area for continued improvement (p. 381). a. Explain why PG&E plans for the benchmarking effort spans over five years. b. Describe common and uncommon practices between PG&E, SCE, and Liberty that have been identified during the benchmarking effort, explain how each common practice was determined to be included or excluded from PG&E's updated Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. c. Describe specific outcomes from the benchmarking effort and clarify how these outcomes relate to specific updates in the Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. d. Compare PG&E's past wood management procedures (prior to benchmarking) to the updated wood management procedure and describe how the updates to the procedure meet the required progress of PG&E-238-16.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	9	Vegetation Management & Inspections	9.5
26	OEIS	001	OEIS_001	16	No	OEIS_001_016	<p>Regarding Integrated Vegetation Management Resourcing and Treatment Timing Section 9.7.3 of the 2025-2028 WMP states that, "For TMM, previously reviewed ROWs are reassessed every 2 years" (p. 388). The 2025-2028 WMP also includes how the need for treatment of Transmission ROWs is determined, to correct that, PG&E's 2025-2028 WMP provided treatment triggers for treatment of vegetation, including "accumulation of vegetation in ROW" (p. 695). a. Describe the rationale for conducting reassessment every 2 to 5 years and clarify what factors (e.g., species, growth rates, percent cover, height) were used to define the ROWs. b. Clarify the treatment triggers PG&E will use to determine the need for maintenance of vegetation in Transmission ROWs during the 2025-2028 WMP cycle.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	9	Vegetation Management & Inspections	9.7.2
27	OEIS	001	OEIS_001_017			OEIS_001_017	<p>Regarding Covered Conductor, Line Removal and Mitigation On page 160 of its 2025-2028 Base WMP, PG&E states "PG&E's Systems Hardening GH-12 initiative includes overhead barewire mitigation, specifically covered conductor installation and the removal, including remote grids." (p. 160) a. Provide separate targets for the following initiatives in the same table format as Table 8.1: i. Covered Conductor ii. Line Removal iii. Mitigation</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.1.18.2.9.8.2
28	OEIS	001	OEIS_001	18	No	OEIS_001_018	<p>Regarding idle transmission power lines a. How many circuit miles of idle transmission lines does PG&E have in the HFTD and HFRA? b. Do any of these idle transmission lines planned for removal in 2025? c. If yes, provide targets for 2025, 2027, and 2028. d. If yes, explain. 1. Explain why removal is not planned. 2. Explain if any of these lines could become energized through induction.</p>	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/docs/Outlets_and_services/Pages/Programmatic%20Environmental%20Assessment%20-%202025-2028%20CIS%20-%2001.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.9.1

44	MGRA	003	MGRA_003	1(a)	Yes	MGRA_003_1(a)	<p>Please provide an excel spreadsheet table that provides for 2021, 2022, 2023, and 2024:</p> <p>a. Number of miles of fully covered conductor circuit segments in the HFTD-HFRA.</p> <p>b. Number of miles of fully "bare wire" conductor circuit segments in the HFTD-HFRA.</p> <p>c. Number of wires down for associated with a covered conductor circuit segment in the HFTD-HFRA.</p> <p>d. Number of wires down associated with a "bare wire" conductor circuit segments in the HFTD-HFRA.</p> <p>e. Number of outages attributable to infrastructure on fully covered conductor circuit segments in the HFTD-HFRA.</p> <p>f. For ignitions or partially covered circuit segments in the HFTD-HFRA, or ignitions with uncertain origin, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of ignition.</p> <p>g. Number of outages attributable to infrastructure on fully covered conductor circuit segments in the HFTD-HFRA.</p> <p>h. For outages on partially covered circuit segments in the HFTD-HFRA, or outages with uncertain location, sum these into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage.</p>	Joseph Michael	4/11/2025	4/23/2025	4/23/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	1	No	8	Grid Design, Operations, and Maintenance	6.4.4.2.10
45	MGRA	003	MGRA_003	2	No	MGRA_003_02	<p>Some of the risk drivers in Table 3-1 (pp. 20-21) show wind as a Climatological risk factor. Please provide a technical explanation why wind is a factor for the following Risk-Sub-Drivers. Also provide data supporting this association:</p> <p>a. Castering Bank</p> <p>b. Fuel</p> <p>c. Lightning Arrester</p> <p>d. Transformer</p> <p>e. Substation</p> <p>f. Contamination</p>	Joseph Michael	4/11/2025	4/16/2025	4/16/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	3	Overview of WMP	3.4
46	MGRA	003	MGRA_003	3	No	MGRA_003_03	<p>On p. 24, PG&E states that "These exceptional temperatures, in turn, impact the relative humidity of the atmosphere, increasing the occurrence of vapor pressure deficit that is also linked to more severe fires. These conditions also pose a health risk to vegetation, increasing the potential for branch or tree failure impacting our assets and creating potential sources of wildfire ignition."</p> <p>a. What evidence does PG&E have that demonstrates how drought conditions relate to branch and tree failure?</p> <p>b. Has PG&E analyzed the relationship between drought variables and vegetation ignition rates? If so please provide the results.</p> <p>c. If it has not done so, is it planning to do so and what would be the timeline? If it is not planning to do so what is the justification?</p>	Joseph Michael	4/11/2025	4/22/2025	4/22/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	9	Vegetation Management & Inspections	5.9
47	MGRA	003	MGRA_003	4	No	MGRA_003_04	<p>Provide technical description and available documentation for the Suppression Access model used in the WFC-v4 Consequence model, along with data and analysis used to support the Suppression Access model.</p>	Joseph Michael	4/11/2025	4/22/2025	4/22/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	5	Risk Methodology & Assessment	5.4
48	MGRA	003	MGRA_003	5	No	MGRA_003_05	<p>Provide technical description and available documentation for the Public Egress model used in the WFC-v4 Consequence model, along with data and analysis used to support the Public Egress model.</p>	Joseph Michael	4/11/2025	4/22/2025	4/22/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6	No	MGRA_003_06	<p>Regarding the WORM v4 ignition probability model:</p> <p>a. Are the covariates calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? Or are they calculated per year?</p> <p>b. Please provide tabular data supporting each of the "Trustee Importance" figures in the Distribution Event Probability Model v4 documentation.</p> <p>c. If there is a single value for feature/covariates at each location, or if these are calculated on a coarse time scale (annually), then please provide GIS data for the following feature/covariates for the HFTD-HFRA areas of the PG&E service area:</p> <p>i) Average wildfire season daily max windspeed</p> <p>ii) Percent difference from average wildfire season daily max windspeed</p> <p>iii) Average wildfire season relative humidity</p> <p>iv) Average wildfire season vapor pressure deficit</p> <p>v) Percent gaily summer day</p>	Joseph Michael	4/11/2025	5/5/2025	5/5/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	1	No	5	Risk Methodology & Assessment	5.4
49	MGRA	003	MGRA_003	6(a)	Yes	MGRA_003_06(a)	<p>Regarding the WORM v4 ignition probability model:</p> <p>a. Are the covariates calculated for each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? Or are they calculated per year?</p> <p>b. Please provide tabular data supporting each of the "Trustee Importance" figures in the Distribution Event Probability Model v4 documentation.</p> <p>c. If there is a single value for feature/covariates at each location, or if these are calculated on a coarse time scale (annually), then please provide GIS data for the following feature/covariates for the HFTD-HFRA areas of the PG&E service area:</p> <p>i) Average wildfire season daily max windspeed</p> <p>ii) Percent difference from average wildfire season daily max windspeed</p> <p>iii) Average wildfire season relative humidity</p> <p>iv) Average wildfire season vapor pressure deficit</p> <p>v) Percent gaily summer day</p>	Joseph Michael	4/11/2025	5/6/2025	5/6/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	3	No	5	Risk Methodology & Assessment	5.4
50	MGRA	003	MGRA_003	7	No	MGRA_003_07	<p>Regarding Figure PG&E-6.1.3.3-1 (2028 Year Baseline) representing system-wide wildfire risk, do the values shown in the figure include PG&E's risk scoring function?</p> <p>a. If the answer is 'yes,' please provide a figure showing the same values without the scoring function (a neutral risk attitude).</p>	Joseph Michael	4/11/2025	4/22/2025	4/22/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
51	MGRA	003	MGRA_003	8	No	MGRA_003_08	<p>Figure 6-1 (p. 140) shows PG&E's fractional risk reduction on a yearly basis from 2021 to 2023. Using available data and methodology, please provide an equivalent risk reduction curve showing the fractional change of PG&E's overall service territory wildfire risk between 2017 and 2024.</p>	Joseph Michael	4/11/2025	4/22/2025	4/22/2025	https://www.gse.com/assets/docs/Outlets_and_outlets/2025-2026_MGRA_003.xls	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2

69	OEIS	002	OEIS_002	14	No	OEIS_002_014	<p>Regarding suppression and egress impacts</p> <p>On page 12 of PG&E's Wildlife Consequence Model Version 4 (WFC-v4) Documentation, PG&E states that "This was not the original expectation for adding the wildfire suppression and public ignition impacts, resulting in additional efforts to validate the results and confirm the model development" when discussing the adjusted consequence scores and associated work to mitigate the risk of the wildfire risk.</p> <p>How did PG&E calculate the mitigations associated with mitigating 60% of the wildfire risk?</p> <p>Is that "real world effects" as a result of the modeling?</p> <p>How did any efforts resulting in response to this validation impact the consequence curve? Provide copies of the curve before and after.</p> <p>Provide a step-by-step process showing how PG&E calculated the associated mileage of work needed to mitigate 60% of the wildfire risk before and after.</p>	Nathan Poon	4/1/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	0	No	5	Risk Methodology & Assessment	5.4
70	OEIS	002	OEIS_002	15	No	OEIS_002_015	<p>015: Regarding PG&E's Ignition Investigation Process</p> <p>Figure PG&E-1.3.1.12: Summary of Ignition Investigation Process, on page 123 of PG&E's 2026-2028 Base WMP includes a step for "Corrective Actions Generated and Assigned."</p> <p>How do the corrective actions generated by the ignition investigation team have led to changes in PG&E's wildfire mitigation efforts since PG&E's 2023-2025 Base WMP?</p> <p>Provide a list of ignitions, including causes and locations, associated with the changes discussed in part (a).</p>	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	0	No	ACI PG&E-25J-01	Outage-to-Ignition Risk Analysis	ACI PG&E-25J-01
71	OEIS	002	OEIS_002	16	No	OEIS_002_016	<p>Regarding Table 5-5: Summary of Top Risk Circuit Segments</p> <p>a. Provide a copy of Table 5-5: Summary of Top Risk Circuit Segments from the 2026-2028 Base WMP as Excel that includes additional columns for:</p> <ul style="list-style-type: none"> WFC-v4 Consequence Values PPRS Risk Score PPRS Risk Score HFTD Designation, including percentage by circuit mileage that falls in each designation (HFTD Tier I, HFTD Tier II, non-HFTD/RA, and non-HFTD/non-RA). 	Nathan Poon	4/1/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
72	OEIS	002	OEIS_002	17	No	OEIS_002_017	<p>Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits</p> <p>Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP as Excel with the following additions:</p> <ul style="list-style-type: none"> a. The associated circuit mileage for each of the hardening activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening. 	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
72	OEIS	002	OEIS_002	17(a)	Yes	OEIS_002_017(a)	<p>Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits</p> <p>Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP as Excel with the following additions:</p> <ul style="list-style-type: none"> a. The associated circuit mileage for each of the hardening activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening. 	Nathan Poon	4/1/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	1	No	5	Risk Methodology & Assessment	5.5.2
73	OEIS	002	OEIS_002	18	No	OEIS_002_018	<p>Regarding Independent Review of PG&E's Wildlife Risk Model</p> <p>For each of the following recommendations made in the E3 Review of PG&E's Wildlife Risk Model Version 4, provide a description of 1) the progress/improvements made, 2) the current status, 3) the timeline/commitment date for addressing the recommendation, and 4) the metrics and associated evidence tracked by implementing the recommendation.</p> <ul style="list-style-type: none"> a. Right-of-way development efforts based on importance and impact (p. 11, 36, 50, 59) b. Justify and seek improvements for model approaches that dilute valuable upstream data: consequence timing and model water age logic (p. 11, 49, 50, 59) c. Report risk - uncertainty in outputs and develop a process to understand how individual modeling updates impact results (p. 12, 33, 40) d. Incorporate air quality and health impacts (p. 13, 57, 60) e. Improve collaboration between modeling efforts (p. 37) f. Develop robust validation procedures (p. 49) g. Improve transparency and assessment of proprietary wildlife spread modeling and the wildlife consequence model at large (p. 56) h. Consider the differences in mitigation (p. 59) 	Nathan Poon	4/1/2025	4/21/2025	4/21/2025	https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf https://www.pge.com/assets/ops/Doc/Outlets_and_inlets/wildfire-consequence-model-v4-documentation.pdf	0	No	5	Risk Methodology & Assessment	5.4

84	SPO	001	SPO_001	11	No	SPO_001_011	Describe how the data set associated with Question 10 was created. a. Was the dataset associated with Question 10 created from a PG&E dataset of all outages? b. Was the dataset associated with Question 10 created from a subset of a PG&E dataset of all outages? If so, describe the subset. The PG&E 5.0 database is comprised of snapshots of only outages in the HFTD from PG&E's ILS database, which were taken at different points in time. The initial investigation of the analysis indicated a snapshot of HFTD outages between 2015-2022, then snapshots of 2023 and 2024 HFTD outages were added in early 2024 and early 2025, respectively. b. Yes, the dataset was created from a subset of outages recorded in ILS, specifically HFTD outages between 2015-2024. The FPI 5.0 methodology from 2014 to 2024 was utilized for this analysis. Each grid cell using each distribution and transmission circuit using a 4170205 GIS dataset was intersected with daily aggregated FPI ratings and then intersected with the HFTD and HFTRA to produce the results below. Units are in circuit-miles. a. Year R1 R2 R3 R4 R5 2014 6,204,052 875,330 1,066,733 1,078,558 937,058 2015 6,418,277 712,162 1,086,295 1,065,202 847,665 2016 7,552,427 748,140 1,241,247 1,031,528 976,860 2017 6,588,071 586,534 1,068,555 1,162,469 905,394 2018 6,307,438 558,128 1,062,872 1,222,168 1,036,584 2019 6,327,658 521,263 1,154,387 986,589 2020 6,688,697 665,180 1,352,752 1,312,261 1,097,502 2021 6,310,138 585,446 1,817,545 1,145,828 1,222,376 2022 6,599,773 685,700 2,035,068 987,474 784,438 WMP-Discovery2025-2028_DR_SPO_001-Q01A01 Page 2 Year R1 R2 R3 R4 R5 2023 7,238,427 788,769 1,816,725 1,724,754 159,512,382 2024 6,332,455 615,912 2,213,060 1,293,915 709,618 b. Year R1 R2 R3 R4 R5 2014 6,302,847 900,503 2,094,010 1,109,103 942,836 2015 6,525,589 788,582 2,052,915 1,091,025 851,220 2016 7,142,285 543,334 1,083,989 1,060,317 860,075 2017 6,887,683 603,022 1,555,763 1,169,044 909,428 2018 6,416,804 576,971 2,091,430 1,247,382 1,014,713 2019 6,445,734 575,117 2,463,307 1,173,682 988,111 2020 6,196,071 708,145 2,029,859 1,341,345 1,103,373 2021 6,422,137 688,323 1,910,688 1,176,184 1,238,960 2022 6,709,875 707,874 2,120,879 1,014,161 862,611 2023 7,307,641 611,058 1,605,271 750,719 134,366 2024 6,397,138 634,225 2,326,397 1,310,176 712,466	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_011.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3-1
85	SPO	001	SPO_001	12	No	SPO_001_012	Provide the number of overhead circuit mile-days for each FPI rating per year starting in 2014 through 2024. The response should mirror the format of PG&E's response "WMP-Discovery2023_DR_SPO_004-Q001.pdf". However, the circuit mile-day data is to be calculated based on FPI 5.0 at the circuit segment level. a. Provide the FPI circuit mile day breakdown for the HFTD miles. b. Provide the FPI circuit mile day breakdown for HFTRA miles. Year R1 R2 R3 R4 R5 2014 6,302,847 900,503 2,094,010 1,109,103 942,836 2015 6,525,589 788,582 2,052,915 1,091,025 851,220 2016 7,142,285 543,334 1,083,989 1,060,317 860,075 2017 6,887,683 603,022 1,555,763 1,169,044 909,428 2018 6,416,804 576,971 2,091,430 1,247,382 1,014,713 2019 6,445,734 575,117 2,463,307 1,173,682 988,111 2020 6,196,071 708,145 2,029,859 1,341,345 1,103,373 2021 6,422,137 688,323 1,910,688 1,176,184 1,238,960 2022 6,709,875 707,874 2,120,879 1,014,161 862,611 2023 7,307,641 611,058 1,605,271 750,719 134,366 2024 6,397,138 634,225 2,326,397 1,310,176 712,466	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_012.pdf	0	No	5	Risk Methodology & Assessment	5.5.2
86	SPO	001	SPO_001	13	No	SPO_001_013	Identify any ignitions in 2024 associated with assets where PG&E had an existing corrective notification at the time of the ignition. Provide a spreadsheet listing each ignition (see notes) in the same format as that provided to the CPUC in the annual CPUC Fire Ignition Data (see the website for the publicly available version, Wildfire and Wildfire Safety). a. Include one additional column that includes the corrective notification (i.e., work order or tag). b. Provide the existing corrective notification for each identified ignition (i.e., the work order). a. PG&E observed 168 CPUC-reportable ignition events in 2024 associated with equipment failures. We were able to identify 29 CPUC-reportable ignitions where the equipment cause was identified by PG&E. The remaining 139 ignitions were not identified by PG&E. The location of the had an open EC or LC corrective notification created prior to, and still open at, the ignition event. Please see "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx" for information associated with these 29 fires. Please note that PG&E has determined that the conditions identified by the provided corrective notifications are likely related to the failure mode of an event but cannot definitively determine causality. Please see the spreadsheet located below for the requested information: + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A02CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A03CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A04CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A05CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A06CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A07CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A08CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A09CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A10CONF.pdf	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_013.pdf	1	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
87	SPO	001	SPO_001	14	No	SPO_001_014	Identify any ignitions in 2024 associated with assets where PG&E had an existing corrective notification at the time of the ignition which PG&E attributes as causally connected to the ignition. Provide a spreadsheet listing each ignition (see notes) in the same format as that provided to the CPUC in the annual CPUC Fire Ignition Data (see the website for the publicly available version, Wildfire and Wildfire Safety). a. Include one additional column that includes the corrective notification number (i.e., work order or tag number). b. Provide the existing corrective notification for each identified ignition (i.e., the work order). a. PG&E observed 168 CPUC-reportable ignition events in 2024 associated with equipment failures. We were able to identify 7 CPUC-reportable ignitions that have completed our ignition analysis process where the suspected cause is equipment failure and the failure mode associated with the fire was specifically captured in the scope of a EC or LC corrective notification created prior to, and still open at, the ignition event. Please see "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx" for information associated with these 7 fires. Please note that PG&E has determined that the conditions identified by the provided corrective notifications are likely related to the failure mode of an event but cannot definitively determine causality. Please see the spreadsheet located below for the requested information: + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A02CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A03CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A04CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A05CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A06CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A07CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A08CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A09CONF.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A10CONF.pdf	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_014.pdf	8	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
88	SPO	001	SPO_001	15	No	SPO_001_015	Identify any outages in 2024 associated with assets where PG&E had an existing corrective notification at the time of the outage which PG&E attributes as causally connected to the outage. Provide a list with unique IDs of each outage which can be cross-referenced with the data provided as part of the 2024 QDR spatial data and the corrective notification. Distribution: Please see "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx" for distribution outages associated with overhead assets where PG&E had an existing corrective notification at the time of the outage. Due to the volume of data, the method used to derive this data defines "causally connected" as being a Level 1 (emergency) tag, linked to an unopened outage, attributed to an equipment failure associated with the primary indicator on the same electric facility as the open maintenance tag. As this is a data pull and each event has not been desktop reviewed, there may be cases where the associated notification was not causal—for example, an instance in which a pole with two crossarms and an open tag on crossarm 1 experiences an outage caused by a failure of crossarm 2. Similarly, there may be cases where causally connected notifications are excluded—for example, an instance in which a pole fails due to a broken/damaged guy which had an existing notification. Details on the filtering procedure are included in "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx". Transmission: Please see "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx" for transmission outages associated with assets where PG&E had an existing corrective notification at the time of the outage. Most outages are linked to an event through mutual review, which allows looking at notifications on that asset; however, the outage dataset still contains some entries where the location is in WMP-Discovery 2025-2028_DR_SPO_001-Q01A01 Page 2 a. Distribution: Column J has been changed to reflect the SAP closure date. Column T "Last maintenance date (if applicable)" and Column I "Completed On Date" contain the date the notification was completed in the field. b. Transmission: Column J has been changed to reflect the SAP closure date. Note that if a notification is opened for administrative reasons, when it is resolved the SAP closure date will change. Column R now contains the date the notification was completed in the field. The remaining logic is identical to that used to generate the previously provided dataset in "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx". c. Distribution: Column R "OutageID" QDR has been added. Please note that there are multiple unique outage identifiers in PG&E's systems of record. Integrated Logging and Information System (ILIS). The OutageID in the QDR reflects the outage, tag, in which is the primary identifier of an outage in ILS where this data was pulled from. The outage event ID specified in column E and the Outage Information System (OIS) number, which is the primary identifier of the same outage in the Distribution Management System (DMS). Please note that PG&E has populated "Outage event ID" using the OIS number associated with each respective Priority A tag. There may be instances in which an OIS identifier is not associated with an outage (e.g. a troubleshooter dispatched to an emergency that does not result in an outage), and therefore the "Outage event ID" column is populated but the "OutageID QDR" column is not. Please note PG&E has endeavored to match the provided Priority A tags to outages associated with the condition to the best of its ability. However, certain circumstances such as data entry by troubleshooters may prevent all Priority A tags from being matched to an	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_015.pdf	2	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
89	SPO	001	SPO_001	16	No	SPO_001_016	Identify any level 1 corrective actions in 2024 associated with assets where PG&E had an existing corrective notification at the time of the level 1 corrective action which PG&E attributes as causally connected to the level 1 corrective action (one example would be if a level one corrective action was created on a pole with a priority C-tag failure). For each instance, provide a list of the electric corrective notification numbers for both the existing corrective notification and the new level one corrective action, the priority level of the existing notification, as well as the date of the occurrence, and the unique ID of each outage (if available) which can be cross-referenced with the data provided as part of the 2024 QDR spatial data. Distribution: Please see "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx" for Level 1 corrective notifications associated with overhead distribution assets where PG&E had an existing corrective notification at the time of the failure. Due to the volume of data, the method used to derive this data defines "causally connected" as being a Level 1 (emergency) tag, attributed to an equipment failure associated with the primary indicator on the same electric facility as the open maintenance tag. As this is a data pull and each event has not been desktop reviewed, there may be cases where the associated notification was not causal—for example, an instance in which a pole with two crossarms and an open tag on crossarm 1 experiences a failure of crossarm 2. Similarly, there may be cases where causally connected notifications are excluded—for example, an instance in which a pole fails due to a broken/damaged guy which had an existing notification. Details on the filtering procedure are included in "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx".	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_016.pdf	2	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
90	SPO	001	SPO_001	17	No	SPO_001_017	Provide all Preliminary Ignition Investigation Reports (PIIRs) associated with Underground Ignitions. Please see the records below for PG&E's PIIRs associated with underground ignitions. + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01_Prelim.pdf + WMP-Discovery2025-2028_DR_SPO_001-Q01A01A02_Prelim.pdf Please note, we have provided related copies of the requested PIIRs in an effort to provide them expeditiously.	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_017.pdf	2	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
91	SPO	001	SPO_001	18	No	SPO_001_018	Provide all PIIRs for ignitions in the HFTD in 2024. Please see PG&E's PIIRs for ignitions in the HFTD in 2024 at "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx".	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_018.pdf	1	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	ACI PG&E-25U-01
92	SPO	001	SPO_001	19	No	SPO_001_019	Provide all Priority A work orders PG&E created between 2020 and 2024 in the same format as "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01CONF" with the exception that column T (Last not to be filed) include Priority A for both distribution and transmission. a. For the purposes of this response to the data request, use column J "Completion Date (if applicable)" for the date the work order was closed and column R ("Last Maintenance Date") as the date the field work was finished. b. Correct Column P to the values are either "Y" for yes, a wire down occurred or "N" for no, a wire down did not occur, unless there is a unique identifier for the wire down that does not match the Outage ID. Add a new column with the Outage Event ID that matches the unique outage ID identifier for the QDR data. For instance, in the current data set, the column Q Outage ID 1910360 appears to refer to an event in 2023, but in the QDR spatial data set, Outage ID 1910360 appears to refer to an event in 2024. Continue to use the same methodology for creating outage event IDs for column Q. c. Explain why the QDR spatial data appears to have a different outage event ID than those specified in column Q. Please see our responses "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01CONF" and "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A02CONF" for Priority A distribution work orders, and attachment "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A03CONF" for Priority A transmission work orders. With regard to "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx", please note that PG&E has refreshed the data provided used in Quarterly Data Reports (QDR). PG&E amended to Priority A tag reporting in its past QDRs to more accurately reflect Priority A tag metrics, and this extension reflects that amendment. WMP-Discovery 2025-2028_DR_SPO_001-Q01A01 Page 2 a. Distribution: Column J has been changed to reflect the SAP closure date. Column T "Last maintenance date (if applicable)" and Column I "Completed On Date" contain the date the notification was completed in the field. b. Transmission: Column J has been changed to reflect the SAP closure date. Note that if a notification is opened for administrative reasons, when it is resolved the SAP closure date will change. Column R now contains the date the notification was completed in the field. The remaining logic is identical to that used to generate the previously provided dataset in "WMP-Discovery2025-2028_DR_SPO_001-Q01A01A01.xlsx". c. Distribution: Column R "OutageID" QDR has been added. Please note that there are multiple unique outage identifiers in PG&E's systems of record. Integrated Logging and Information System (ILIS). The OutageID in the QDR reflects the outage, tag, in which is the primary identifier of an outage in ILS where this data was pulled from. The outage event ID specified in column E and the Outage Information System (OIS) number, which is the primary identifier of the same outage in the Distribution Management System (DMS). Please note that PG&E has populated "Outage event ID" using the OIS number associated with each respective Priority A tag. There may be instances in which an OIS identifier is not associated with an outage (e.g. a troubleshooter dispatched to an emergency that does not result in an outage), and therefore the "Outage event ID" column is populated but the "OutageID QDR" column is not. Please note PG&E has endeavored to match the provided Priority A tags to outages associated with the condition to the best of its ability. However, certain circumstances such as data entry by troubleshooters may prevent all Priority A tags from being matched to an	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_019.pdf	2	No	8	Grid Design, Operations, and Maintenance	8.8
93	SPO	001	SPO_001	20	No	SPO_001_020	Provide an update version of "WMP-Discovery2025-2028_DR_Calibrations_041-Q005A01A01.xlsx" if the risk model has been updated since the spreadsheet was generated. a. Additionally, update the narrative and table provided in the response "WMP-Discovery2025-2028_DR_Calibrations_041-Q001.pdf". The risk model, WDRMA, has not been updated since the generation of this spreadsheet.	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/customers/docs/outages-and-safety/outage-program-reports-and-reports/2025-2028-spo_001_020.pdf	0	No	5	Risk Methodology & Assessment	5.4

94	SPO	001	SPO_001_021	21	No	SPO_001_021	<p>SPO is attempting to compute the cost per unit for many of the WMP initiatives tracked in the WMP Information Dashboard (WMP Information Dashboard). Review and confirm the cost per unit is correct for the initiatives. See the attached workbook titled POE WMP Information Dashboard.xlsx.</p> <p>A follow up of the initiatives with the costs and notes included in POE WMP Information Dashboard.xlsx. SPO is attempting to do a similar exercise for the 2025-2028 WMP but the QOR calculator data was not submitted. SPO saw some of the data in the WMP, but was unable to determine if the data was inclusive of all initiatives. Where should SPO look for equipment data?</p>	Edie Schwitt	4/15/2025	5/7/2025	5/7/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	1	No	3	Overview of WMP	3.6
95	SPO	001	SPO_001_022	22	No	SPO_001_022	<p>The 2024-2028 WMP states on page 182 that the System Hardening Project Sizing Decision Tree and Process is shown in Figures PGME-8.2.1.1, PGME-8.2.1.2, and PGME-8.2.1.3 will begin to inform the selection of projects in 2027. What methodology is being used for 2027?</p>	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
96	SPO	001	SPO_001_023	23	No	SPO_001_023	<p>Provide a narrative explanation regarding how the decision tree on pg. 125 of PGME's 2025-2028 WMP (Figure PGME-8.1.3.1-4) and the decision tree on pg. 183-185 (Figure PGME-8.2.1.1, PGME-8.2.1.2, and PGME-8.2.1.3) are related.</p> <p>A. Provide examples of how the four decision trees were used to determine some form of system hardening as selected mitigation at a given circuit segment. The examples should exhaust all of the system hardening results made possible by these four decision trees.</p>	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
97	SPO	001	SPO_001_024	24	No	SPO_001_024	<p>In response to WMP-Discovery2025-2028, DR, TURN, 002-0006, PGME references the Wildlife Benefit Cost Analysis (WBCA) Tool. Provide a description of the WBCA Tool as referenced in PGME's 5th Revision to its 2023-2027 WMP on pg. 425 and on page 187 of the 2025-2028 WMP that includes the following:</p> <p>a. An explanation of how Cost-Benefit Ratios are utilized within the Tool.</p> <p>b. An explanation of how the Tool complies with the requirements of 0.22-13-027.</p> <p>c. An explanation of how the Tool complies with the requirements of 0.22-14-05-064.</p> <p>d. A definition for each of the following terms presented in TABLE PGME-23-05-3 of PGME's 5th Revision to its 2023-2027 WMP on pg. 427:</p> <p>i. Lifetime O&M Costs</p> <p>ii. Wildlife</p> <p>iii. Public Safety</p> <p>iv. Normal Reliability</p> <p>v. EPSB</p> <p>vi. Total Risk</p> <p>vii. Risk Avoidance over Lifetime Benefit</p> <p>viii. Residual Risk over Lifetime</p> <p>ix. Lifetime - Benefit Cost</p> <p>A. Provide a table by key explanation of how each of the terms in Question 24d. are calculated.</p>	Edie Schwitt	4/15/2025	4/25/2025	4/25/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	5	Risk Methodology & Assessment	5.4
98	SPO	001	SPO_001_025	25	No	SPO_001_025	<p>State the things where PGME has used the Wildlife Benefit Cost Analysis Tool (i.e. RAMP, GRC, WMP, other proceedings or filings).</p> <p>a. Does PGME intend to apply the Wildlife Benefit Cost Analysis Tool in its 2027 Total Year GRC Application?</p> <p>b. If yes, explain why not.</p> <p>c. If yes, explain how it will be applied in the 2027 Total Year GRC Application.</p> <p>d. Which mitigations presented in the 2024 RAMP Application will be impacted by PGME's use of the Wildlife Benefit Cost Analysis Tool when PGME files its 2027 Total Year GRC Application?</p>	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	5	Risk Methodology & Assessment	5.4
99	SPO	001	SPO_001_026	26	No	SPO_001_026	<p>The 2025-2028 WMP references the WBCA Tool, but SPO has reviewed other filings the PGME, 2024 RAMP Application (R.24-05-08) where this tool is not referenced.</p> <p>a. The WBCA was not referenced in PGME's 2024 RAMP Application. During the preparation of PGME's 2024 RAMP, were any aspects of the WBCA used to determine mitigation effectiveness values and/or mitigation selection and, if so, explain in detail how, if not, explain why not.</p> <p>b. In WMP-Discovery2025-2028, DR, TURN, 002-0006, PGME stated the WBCA tool is still in development in its response to TURN's questions, but page 187 through 192 of the 2025-2028 WMP appear to present the tool as complete. What portions of the WBCA tool are still under development?</p> <p>c. SPO understands that PGME has two risk models for its wildfire risk, (1) the ECRM and (2) the WDRM/WTM. How does the WBCA Tool incorporate information from both of these risk models?</p>	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	5	Risk Methodology & Assessment	5.4
100	SPO	001	SPO_001_027	27	No	SPO_001_027	<p>Provide SPO with any follow-up responses PGME provides in response to WMP-Discovery2025-2028, DR, TURN, 002-0006-4.</p>	Edie Schwitt	4/15/2025	4/18/2025	4/18/2025	https://www.gps.com/youtrack/Doc/Outlets-and-safety/hardware-preparation-and-safety/2025-2028-WMP_001.xlsx	0	No	NA	NA	NA

101	SPO	001	SPO_001	28	No	SPO_001_028	Building on PG&E's response in WMP-Discovery2026-2028, DR_TURN_003-Q00A0001.doc, fill out the Table provided below. The rows labeled "HFTD Tier 2 with Spans Outside HFTC" and "HFTD Tier 3 with Spans Outside HFTC" which is to meet the requirements found on pg 16 of Energy Safety's 10-Year Electrical Underpinning Plan Guidelines. Total Miles CH Hardening Miles Year 1 CH replaced by LG Miles Year 2 Total HFTD HFTD Tier 2 HFTD Tier 3 with Spans Outside HFTD HFTD Tier 3 with Spans Outside HFTD Additional HFTA Answer Q28 PG&E does not have the requested information and does not maintain the data required to complete such information. PG&E would need to expend significant time, effort, and cost to perform the evaluations necessary to create the information. Please let us know if you would like to have a call to discuss this further.	Edie Schmitt	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-001_001.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
102	CEIS	003	CEIS_003	1	No	CEIS_003_01	Regarding Tree Removal Inventory (TRI) PG&E does not list TR as a vegetation management program in its 2026-2028 Base WMP. On page 363, PG&E's WMP states "PG&E is in the process of evaluating which component(s) of the ... [Tree Removal Inventory (TRI)] areas will be incorporated into the Distribution Routine Patrol Program." a. How many trees are currently listed for work under TRI? b. How many trees does PG&E expect to remove in the TRI for on January 1, 2026? c. How will PG&E mitigate trees listed for work under TRI during the 2026-2028 cycle? d. When does PG&E expect to mitigate all the trees listed for work under TRI?	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	0	No	Appendix D: Areas of Continued Improvement	Areas of Continued Improvement	AO PG&E-25U-08
103	CEIS	003	CEIS_003	2	No	CEIS_003_02	Regarding Constrained Vegetation Management Work Orders Response to data request CEIS-A-WMP-2025-0001.doc, PG&E lists 7,084 Priority 2 constrained work orders. a. In the table below, categorize all 7,084 constrained work orders by age (days since inspection) and HFTD tier.	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	0	No	9	Vegetation Management & Inspections	9.12
104	CEIS	003	CEIS_003	3	No	CEIS_003_03	Regarding System Hardening Decision-Making Regarding Figure PG&E-3.1.2: PG&E's System Hardening Project Staging Decision Tree and Process (PG&E-2026-2028 Base WMP, pg. 183-185). a. Define "NR" as seen for "UG NR" or "CH NR." b. How does PG&E calculate UG NR and CH NR for the purpose of determining these criteria? c. Does PG&E calculate benefit for NR and CH NR based on overall effectiveness for mitigations (as seen in Table PG&E-3.1.1, "PG&E's 2026-2028 Base WMP," p. 135), or based on location-specific effectiveness accounting for local risk element? Provide a brief explanation of the calculation in the response. d. Provide the spatial data via KMZ or KMZ for the tree archive potential throughout PG&E's service territory, showing a heat map across circuit segments for areas with below 0.5 (0) versus high (0.1) value potential. e. How are areas of aggressive concern identified by the Public Safety Division (PSD) team (i.e., annually provide a list of areas of concern, review specific projects through this process to evaluate concern once triggered)? f. Provide a list of areas that have been identified by the PSD team for aggressive concern. This should include the circuit protection zone. g. What criteria and threshold does PG&E use when determining whether a circuit protection zone (CPZ) is affected by PSPF? h. Provide a list of projects scheduled for 2026 to 2028 that have been triggered to a hybrid solution (from either true potential, aggressive concern, or PSPF impacts), as depicted by one of the three criteria listed in the decision tree. Provide the information via Excel following the table below for each project. i. Provide a list of projects scheduled for 2026 to 2028 that are undergoing projects where the UG CBR is greater than the CH-EPSS CBR, but due to the UG CBR being within 50% of the CH-EPSS CBR, the project is expected to be undergrounded. This must also include hybrid projects that were triggered from the criteria discussed in G003b. Provide the information via Excel following the table below for each project.	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	6	No	8	Grid Design, Operations, and Maintenance	8.2.1
105	CEIS	003	CEIS_003	4	No	CEIS_003_04	Regarding Effectiveness Analysis Regarding PG&E's response to TURN's Data Request 2 Question 5, Attachment 1: a. In its response to the data request, PG&E states that "Company-initiated outcomes, including PSPS outages, outages of unknown cause, as well as outages on existing underground assets are not applicable to the study." b. Why does PG&E not include outages on existing underground assets? c. SP events are shown as "NA" that are not under the CBR class of "Unknown" or "Utility Work / Operation." d. Are these SP events linked to existing underground assets or PSPS outages? e. If not, why are these listed as "NA" for determining effectiveness? f. PG&E's response included a spreadsheet with a tab accounting for risk scores and associated wildfire intensity and outcome when calculating the PSPS effectiveness. Provide a detailed description of how PG&E accounts for wildfire intensity and outcome when determining the effectiveness of reducing wildfire risk for mitigations.	Nathan Poon	4/15/2025	4/23/2025	4/23/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
106	CEIS	003	CEIS_003	5	No	CEIS_003_05	Regarding Risk Reduction Table 6-4 shows a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits (PG&E-2026-2028 Base WMP, p. 101) that has the overall utility risk scores for all top risk circuits broken out by year without including the expected risk reduction from EPSS.	Nathan Poon	4/15/2025	4/23/2025	4/23/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	1	No	6	Wildfire Mitigation Strategy Development	6.2.1
107	CEIS	003	CEIS_003	6	No	CEIS_003_06	Regarding Pole Clearing Table 9-2 shows an Activity Timeline Target of 365 days for Pole Clearing Program (VM-02). a. Explain how this timeline target allows PG&E to maintain compliance with PRC 4202. b. Provide documentation of an example of past conditions that required PG&E to use a substantial portion of the 365-day Activity Timeline Target to complete pole clearing work.	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	0	No	9	Vegetation Management & Inspections	9.4
108	CEIS	003	CEIS_003	7	No	CEIS_003_07	Regarding Substation Inspection Timelines Table 9-2 shows an Activity Timeline Target of 274 days for Substation Inspections - Distribution (VM-05), Substation Inspections - Transmission (VM-06), and Substation Inspections - Power Generation (VM-07). a. Explain how this timeline target allows PG&E to maintain compliance with PRC 4201. b. Provide documentation of an example of past conditions that required PG&E to use a substantial portion of the 274-day Activity Timeline Target to complete pole clearing work.	Nathan Poon	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/ops/docs/OutageLogs_and_safety/usage-parameters-and-safety/2026-2028-003_003.xls	1	No	8	Grid Design, Operations, and Maintenance	8.1.15

109	SFO	002	SFO_002	1	No	SFO_002_01	Every Friday by noon, provide SFO with copies of any data requests PG&E received from the Office of Energy Communications Safety/Energy Safety or any other party within the previous seven days. Include any attachments, appendices or datasets in the native format that were submitted to PG&E with the data requests.	PG&E objects to this request on the grounds that continuing discovery obligations are not permitted under California law. Biles v. Exxon Mobil Corp., 124 Cal App 4th 1315, 1328 (2004); Code Civ. Proc. § 2030.006(g). Notwithstanding and without waiving this objection, PG&E responds as follows: Discovery provided to Energy Safety and other requesting parties is publicly posted and available on PG&E's website at Community Wildlife Safety Program. The native format version (Excel) of PG&E's WMP DR Summary is updated on our website each Thursday. We will provide confidential versions of any confidential responses and/or attachments	Edie Schwett	4/18/2025	4/18/2025	4/18/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	0	No	NA	NA	NA
110	SFO	002	SFO_002	2	No	SFO_002_02	Every Friday by noon, provide SFO with any responses to data requests that PG&E sent to Energy Safety or any other party within the previous seven days. Include any attachments, appendices or datasets in the native format that were sent to Energy Safety or any other party with the data requests.	PG&E objects to this request on the grounds that continuing discovery obligations are not permitted under California law. Biles v. Exxon Mobil Corp., 124 Cal App 4th 1315, 1328 (2004); Code Civ. Proc. § 2030.006(g). Notwithstanding and without waiving this objection, PG&E responds as follows: Discovery provided to Energy Safety and other requesting parties is publicly posted and available on PG&E's website at Community Wildlife Safety Program. The native format version (Excel) of PG&E's WMP DR Summary is updated on our website each Thursday. We will provide confidential versions of any confidential responses and/or attachments	Edie Schwett	4/18/2025	4/18/2025	4/18/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	0	No	NA	NA	NA
111	SFO	002	SFO_002	3	No	SFO_002_03	Every Friday by noon, provide SFO with the updated native format version (i.e., Excel) of the PG&E WMP DR Summary that is submitted weekly to the Energy Safety division.	PG&E objects to this request on the grounds that continuing discovery obligations are not permitted under California law. Biles v. Exxon Mobil Corp., 124 Cal App 4th 1315, 1328 (2004); Code Civ. Proc. § 2030.006(g). Notwithstanding and without waiving this objection, PG&E responds as follows: Discovery provided to Energy Safety and other requesting parties is publicly posted and available on PG&E's website at Community Wildlife Safety Program. The native format version (Excel) of PG&E's WMP DR Summary is updated on our website each Thursday. We will provide confidential versions of any confidential responses and/or attachments	Edie Schwett	4/18/2025	4/18/2025	4/18/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	0	No	NA	NA	NA
112	TURN	003	TURN_003	1	No	TURN_003_01	Please provide PG&E's wildlife risk model (WORM v4) assumptions and results in Excel. Please provide all outputs and assumptions available. At minimum, this should include Critical Protection Zones (CPZ) name, Baseline, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include the following: a. In Excel, please provide the outputs of the PPS and EPSS risk models, respectively, with the same circuit/CPZ identifiers as provided in the previous questions. At minimum, this should include Critical Protection Zones (CPZ) name, Baseline, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include which CPZs are regulated by PPS and EPSS mitigations from 2025-2028. Please indicate what the mitigation is.	Please see attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx" for the outputs of the PPS and EPSS risk models. This data was created as of April 24, 2025. There are currently six circuit segments planned for construction in 2025-2027 with the purpose of reducing PPS risk: 1. TEACH 110272586 2. SUGARBE 1102524 3. PLACERVILLE 1107522 4. S. CORNING Pt 217-218 5. CORNING 11025184 6. PTT No 3 1201482 The above projects were selected based on a historic lookback of PPS data, not the outputs of the PPS risk model provided, as these projects were selected prior to the development of the PPS risk model. Please note that scoping for 2027 and 2028 will be in full progress and additional PPS mitigation work may be added to the scoping as work scoping is complete. All planned system hardening and undergrounding work will support reliability mitigation for EPSS.	Reina Yanagita	4/17/2025	4/25/2025	4/25/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	3	No	5	Risk Methodology & Assessment	5.4
113	TURN	003	TURN_003	2	No	TURN_003_02	Please provide an estimate, by activity, of total annual cost and risk reduction, for all wildlife mitigation activities from 2019-2024 (recovered). Please explain whether this risk reduction has been incorporated into PG&E's baseline risk. Please provide all supporting calculations and data in Excel.	PG&E did not start estimating wildlife risk reduction until 2022 with the 2022-2025 WMP update. The risk reduction calculations require temporal and spatial alignment across a model version, circuit segments, and work plans. Currently, historical circuit segment datasets have only been prepared in a WORM model version (baseline) (territory dataset) in which WORM v3. The earliest year that we have a WORM model, respective circuit segment data, and associated work plan is 2023. Risk reduction results for 2023 and 2024 can be found in each year's respective Annual Report on Compliance (ARC), and total annual recovered costs can be found in PG&E's Non-Spatial Quarterly Data Report (QDR) Table 11. Both are published either on our website or in the QDR.	Reina Yanagita	4/17/2025	4/25/2025	4/25/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	0	No	5	Risk Methodology & Assessment	5.4
114	TURN	003	TURN_003	3	No	TURN_003_03	In Excel, please provide the outputs of the PPS and EPSS risk models, respectively, with the same circuit/CPZ identifiers as provided in the previous questions. At minimum, this should include Critical Protection Zones (CPZ) name, Baseline, consequence, total risk score, and number of overhead miles of each CPZ in separate columns. In addition, please include which CPZs are regulated by PPS and EPSS mitigations from 2025-2028. Please indicate what the mitigation is.	Please see attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx" for the outputs of the PPS and EPSS risk models. This data was created as of April 24, 2025. There are currently six circuit segments planned for construction in 2025-2027 with the purpose of reducing PPS risk: 1. TEACH 110272586 2. SUGARBE 1102524 3. PLACERVILLE 1107522 4. S. CORNING Pt 217-218 5. CORNING 11025184 6. PTT No 3 1201482 The above projects were selected based on a historic lookback of PPS data, not the outputs of the PPS risk model provided, as these projects were selected prior to the development of the PPS risk model. Please note that scoping for 2027 and 2028 will be in full progress and additional PPS mitigation work may be added to the scoping as work scoping is complete. All planned system hardening and undergrounding work will support reliability mitigation for EPSS.	Reina Yanagita	4/17/2025	4/25/2025	4/25/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	1	No	5	Risk Methodology & Assessment	5.4
115	TURN	003	TURN_003	4	No	TURN_003_04	Section 6.1.3.1, page 129, states: "PG&E estimates that the average risk for primary distribution undergrounding is approximately \$3.0 million per mile and the average cost to install covered conductor is approximately \$1.0 million per mile." a. Please provide support for these estimates, including any calculations in Excel. b. Are both estimates in dollars per overhead mile? If not, please provide PG&E's estimates in dollars per overhead mile and provide the underlying assumptions/calculations to show how the estimates were derived. c. For all undergrounding projects completed from 2018 to 2024, please provide, on a project-level basis, the following information in Excel with supporting data and calculations: i. the dates of the project (start and finish), ii. total cost, iii. number of overhead miles removed, iv. overhead miles removed, including whether it was related to wildfire risk or is an urban setting, v. overhead miles removed, vi. overhead miles undergrounded, and vii. cost per overhead mile. d. For all overhead hardening projects completed from 2018 to 2024, please provide, on a project-level basis, the following information in Excel with supporting data and calculations: i. the dates of the project (start and finish), ii. total cost, iii. number of overhead miles covered/hardened, in purpose of the project, including whether it was related to wildfire risk, and iv. cost per overhead mile. e. Please provide assumed unit costs (dollarhead mile) for covered conductor and undergrounding, separately, in 2025, 2027, and 2028, respectively. Please provide all supporting data and calculations.	a. Please see worksheet Support A in attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx". b. Reins, the question asks for "a number of overhead miles removed" and "a overhead miles removed". We are assuming these are the same request and have included one column for overhead miles removed. Additionally, because the unit cost is associated with undergrounding miles installed, we have included the undergrounding miles installed as an additional column in this dataset. c. Reins, the start date reflects when the project was first identified for scoping, the end date reflects when the project was fully constructed. d. Year complete supplies the year a project completed the final Fire Risk Safety Audit, which may differ from the end date year, which reflects when the project was fully constructed. e. Some subprojects have a negative total cost. This can be due to credits from "Please see worksheet Support B in attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx". The attachment includes the days the subproject was initiated (i.e., start of project scoping) to the end of the project (i.e., construction complete) for both undergrounding and overhead subprojects between 2018 and 2024, split between base system hardening and the rebuilt work. A few notes about the subproject data provided in the "Duration Analysis": • Construction End Date represents the date construction was complete. If that date was not available, we provided the date the project was completed. • As identified in Column 1, projects were removed from the analysis if there were data anomalies based on: o Negative duration (i.e., construction end date showed prior to the project start) o Missing dates (i.e., date was not captured at the time) o Data discrepancies (i.e., where we know that construction end date is inaccurate based on when the project was energized and passed the Fire Risk Safety Audit) f. Projects with less than 14-day durations were removed from the average calculation in the "summary" worksheet based on outlier rather than expense of project duration of the rebuilt work. g. Please see the discussion of cumulative risk in PG&E's 2025 WMP Update (PG&E 2025 Wildlife Mitigation Plan Update R2, p. 57-58). While aspect of wildlife construction has not explicitly been incorporated into PG&E's risk modeling and cost-benefit ratios, PG&E manages its suite of wildfire mitigation initiatives to minimize cumulative risk exposure and does account for the time value of risk based on the useful life of the asset. Specifically, PG&E uses an integrated mitigation strategy to manage wildfire risk across our system while we implement more permanent risk reduction strategies like undergrounding and other system hardening work. PG&E's objective when scheduling mitigation initiatives is to ensure that we have built sufficient risk mitigation into the system to minimize risk exposure as we develop our long-term system hardening programs. PG&E achieves this through a suite of Comprehensive Monitoring and Data Collection programs designed to provide insight into the changing environmental hazards around our assets and the condition of our equipment (e.g., the Hazard Awareness Program).	Reina Yanagita	4/17/2025	4/25/2025	4/25/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
116	TURN	003	TURN_003	5	No	TURN_003_05	Section 6.1.3.1, page 129, states: "Covered conductor can generally be installed more quickly and costs less than undergrounding, but it does not protect against tree strikes risk or fully address the reliability risk. Given increasing instances of extreme weather and volatility, the focus on regulation around our assets is only expected to get more. Therefore, undergrounding, where feasible, is the best alternative where tree strike risk is high." In Excel, please provide the time (days) from project initiation to project completion for all covered conductor and undergrounding projects, separately from 2018. Please include all supporting data/calculations. a. Please explain and quantify whether the fact that covered conductor can be installed more quickly than undergrounding has been incorporated into PG&E's risk model and cost-benefit ratios. If yes, please explain and provide an illustrative calculation. If no, please explain why not.	Please see worksheet Support B in attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx". The attachment includes the days the subproject was initiated (i.e., start of project scoping) to the end of the project (i.e., construction complete) for both undergrounding and overhead subprojects between 2018 and 2024, split between base system hardening and the rebuilt work. A few notes about the subproject data provided in the "Duration Analysis": • Construction End Date represents the date construction was complete. If that date was not available, we provided the date the project was completed. • As identified in Column 1, projects were removed from the analysis if there were data anomalies based on: o Negative duration (i.e., construction end date showed prior to the project start) o Missing dates (i.e., date was not captured at the time) o Data discrepancies (i.e., where we know that construction end date is inaccurate based on when the project was energized and passed the Fire Risk Safety Audit) f. Projects with less than 14-day durations were removed from the average calculation in the "summary" worksheet based on outlier rather than expense of project duration of the rebuilt work. g. Please see the discussion of cumulative risk in PG&E's 2025 WMP Update (PG&E 2025 Wildlife Mitigation Plan Update R2, p. 57-58). While aspect of wildlife construction has not explicitly been incorporated into PG&E's risk modeling and cost-benefit ratios, PG&E manages its suite of wildfire mitigation initiatives to minimize cumulative risk exposure and does account for the time value of risk based on the useful life of the asset. Specifically, PG&E uses an integrated mitigation strategy to manage wildfire risk across our system while we implement more permanent risk reduction strategies like undergrounding and other system hardening work. PG&E's objective when scheduling mitigation initiatives is to ensure that we have built sufficient risk mitigation into the system to minimize risk exposure as we develop our long-term system hardening programs. PG&E achieves this through a suite of Comprehensive Monitoring and Data Collection programs designed to provide insight into the changing environmental hazards around our assets and the condition of our equipment (e.g., the Hazard Awareness Program).	Reina Yanagita	4/17/2025	4/25/2025	4/25/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
117	TURN	003	TURN_003	6	No	TURN_003_06	Please provide recorded and forecasted red flag warning circuit mile days from 2020-2028 on an annual basis in PG&E's HTFD. Please define "forecast" as the assumption for PG&E's risk modeling. If available, in the Excel worksheet, please provide the annual number of projects initiated by PG&E equipment from 2018-2024 in PG&E's HTFD (or indicating which are in the HTFD) with supporting data and calculations. Please also include: a. The date of each ignition. b. Driver of the ignition (cause). c. Fatalities and/or injuries. d. Whether there was red flag warning at the time of the ignition. e. Any other information readily available and used by PG&E in its risk modeling.	Please see attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx" for the requested information.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	1	No	5	Risk Methodology & Assessment	5.3
118	TURN	003	TURN_003	7	No	TURN_003_07	Please provide recorded and forecasted red flag warning circuit mile days from 2013 - 4/15/2025 broken out by year. PG&E does not include "forecast" for red flag warning circuit mile days in its risk modeling.	Please see attachment "WMP-Discovery2025-2028-DR_TURN_003-003A0401.xlsx" for the requested information.	Reina Yanagita	4/17/2025	4/22/2025	4/22/2025	https://www.energy.ca.gov/public/efrc/docs/CommunityWildlifeSafetyProgram-2025-WMP-DR-Summary.pdf	1	No	5	Risk Methodology & Assessment	5.2.2.1

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150	SPO	003	SPO_003	13	No	SPO_003_013	Complete the Tables 7 through 11 of the systems and HFTD scale for all of PG&E's Vegetation Management work (i.e., the total number of trees removed systemwide and separately by total number of trees removed in the HFTD).	<p>Please refer to "WMP-Discovery2026-2028_DR_SPO_003-Q012A001.docx" for the requested tables for Vegetation Management programs systemwide. Please refer to "WMP-Discovery2026-2028_DR_SPO_003-Q012A001.docx" for the requested tables for Vegetation Management programs in HFTD only.</p> <p>Please note the following:</p> <ul style="list-style-type: none"> "Forecasted to be worked" includes an estimate of how many trees may be either planted or removed as part of that program. "Number of total trees removed" is a forecast. Vegetation Management does not forecast "total number of trees prescribed for removal" for any programs. Transmission vegetation management programs do not forecast number of total trees removed. Total mileage is not applicable to the Tree Removal Inventory (TRI) and Vegetation Management for Operational Mitigation (VMOM) programs. TRI is intended to work down the risk associated with the Enhanced Vegetation Management (EVM) trees that were removed from the program over a period of years. Transmission Integrated Vegetation Management (TIVM) is not measured in terms of prescribed trees. Please note the unit of measure for TIVM inspections is acres. Where applicable, acres inspected have been provided in lieu of mile inspection. Distribution and Transmission Second Patrol/Hazard Patrol miles to be inspected in HFTD may be lower than overall program miles to be inspected as the programs include HFRAs. FT and VMOM do not forecast units to be inspected or worked in HFTD. TVM did not track acres worked in HFTD in 2023. For 2025-2028 data, PG&E does not have a breakdown by HFTD/HFTD of forecasted trees to be worked and/or removed for Distribution Routine and Hazard Patrol programs. 	Henry Swast	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-spo_003.xls	1	No	9	Vegetation Management and Inspections	9
151	SPO	003	SPO_003	14	No	SPO_003_014	For each vegetation management program in the 2026-2028 WMP, specify if the Quality Assurance and Quality Control assessments include verification of the height and distance to the conductor of each strike vegetation point specified for removal, and each vegetation strike point noted as an inventory tree.	<p>Quality Assurance and Quality Control assessments do NOT include verification of the height and distance to the conductor of each strike vegetation point specified for removal, and each vegetation strike point noted as an inventory tree.</p> <p>PG&E currently estimates approximately 5.4 million trees that have overhead electric system strike potential within HFTD only. The estimate is based on 2019 (distribution) and 2020 (transmission) aerial LIDAR data collection. Due to known limitations of aerial LIDAR associated with canopy cover, especially in closed canopy environments, this is likely an underestimation. Due to these factors of confidence level is low.</p>	Henry Swast	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-spo_003.xls	0	No	9	Vegetation Management and Inspections	9
152	SPO	003	SPO_003	15	No	SPO_003_015	Provide PG&E's latest estimate for the number of strike trees in PG&E's HFTD with an explanation of how this estimate was obtained. Discuss PG&E's confidence in its estimate.	<p>PG&E currently estimates approximately 5.4 million trees that have overhead electric system strike potential within HFTD only. The estimate is based on 2019 (distribution) and 2020 (transmission) aerial LIDAR data collection. Due to known limitations of aerial LIDAR associated with canopy cover, especially in closed canopy environments, this is likely an underestimation. Due to these factors of confidence level is low.</p>	Henry Swast	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-spo_003.xls	0	No	9	Vegetation Management and Inspections	9
153	MORA	005	MORA_005	1	No	MORA_005_01	<p>Follow-ups to Data Request Responses:</p> <p>WMP-Discovery 2026-2028 DR_OES_001-Q022 MORA-S-1 For the three technologies listed in PG&E's response to the OES data request EFD, DFA, Gridscope, please provide a per-year estimate of the deployment of these devices for 2026, 2027, and 2028 in the HFRAs/HFTD.</p> <p>a. The number of devices to be deployed.</p> <p>b. The risks of overhead conductor to be monitored by these technologies in the HFTD/HFRAs.</p> <p>c. The fractional coverage of the overhead conductor system.</p> <p>d. The estimated cumulative risk reduction due to the deployment of that technology.</p>	<p>a. PG&E plans to deploy 180 EFD devices and 4 DFA devices during 2026-2028 WMP period. PG&E is still in the deployment strategy development phase for Gridscope devices.</p> <p>b. EFD devices planned for deployment in 2026 will monitor approximately 457 overhead miles of HFTD conductors. DFA devices planned for deployment in 2026 will monitor approximately 1,816 primary overhead miles of HFTD conductors. Deployment results in 2027 and 2028 are expected to be comparable to 2026.</p> <p>c. The approximate 487 miles of primary overhead conductor HFTD miles on the circuits planned for deployment of EFD devices in 2026 account for 1.9% of all primary overhead conductor HFTD miles on the circuits planned for deployment of DFA devices in 2026 account for 0.1% of all primary overhead conductor HFTD miles in PG&E service territory. Deployment results in 2027 and 2028 are expected to be comparable to 2026.</p> <p>d. WMP-Discovery 2026-2028 DR_MORA_005-0001 Page 2</p> <p>e. Life asset inspections, sensory probe eye-on-risk, detailed conditions that could create a wildfire or public safety risk. Actual risk reduction is accomplished as conditions are addressed by maintenance.</p> <p>f. EFD - 2.52% EOR per year.</p> <p>g. DFA - 5.02% EOR per year.</p>	Joseph Mitchell	4/23/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-mora_005.xls	0	No	10	Stratistical Awareness and Forecasting	10.4/10.31
154	MORA	005	MORA_005	2	No	MORA_005_02	<p>Suppression</p> <p>MORA-S-2 During a meeting of the Risk Mitigation Working Group, I recall one of the PG&E team stating that they had looked at the California statistics to determine whether weather rose conditions affected the probability of successful initial attack.</p> <p>a. Did PG&E ever perform an analysis similar to that described?</p> <p>b. If the answer is yes, please provide the results.</p> <p>c. Is the PG&E FPI model available through a public interface? i.e., if a latitude, longitude, and time is provided on a corresponding FPI value is returned?</p> <p>d. If the answer to b) is no, what is the approximate volume of PG&E's FPI history, could it potentially be reported, and how much time (days and effort (person-hours)) would it require?</p> <p>e. As PG&E's FPI algorithm has changed over time, has PG&E segregated historical periods with different FPI approaches? Or has it used its history with the most recent FPI version?</p>	<p>a. PG&E did not perform a study that evaluated if local weather conditions affected the probability of successful initial attack. We did perform a study briefly discussed during a recent Risk Mitigation Working Group meeting that evaluated causes of the FPI result. The data shows that most badlands development occurred during the first 24 hours from the initial fire detection. See the table below.</p> <p>b. Within the PG&E FPI is not available through a public interface, daily FPI 5.0 ratings by Fire Index Area (FIA) back to 2008 are provided in "WMP-Discovery2026-2028_DR_MORA_005-G005A001.docx". These data are available for a daily FPI 5.0 rating to be reviewed with a latitude, longitude and date.</p> <p>c. N/A.</p> <p>d. PG&E both retains the FPI ratings that were forecast using the operational FPI model at the time and re-runs a FPI historical dataset via historical using the weather/hazards climatology using the latest model in production. See attachment associated with part B.</p>	Joseph Mitchell	4/23/2025	4/30/2025	4/30/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-mora_005.xls	1	No	Appendix D	Appendix D: Areas of Continued Improvement	ACI PG&E-238-03
155	MORA	005	MORA_005	3	No	MORA_005_03	<p>Covered Conductor</p> <p>MORA-S-3 In Table PG&E-8.2.1.4, COVERED CONDUCTOR AND UNDERSTANDING IMPACTS ON THE LIKELIHOOD OF IGNITION, PG&E's analysis of Wire-to-Wire contact lists the effectiveness of Covered Conductor as medium if reducing the risk alone, whereas other parties rank this as a high effectiveness.</p> <p>a. Please justify why wire-to-wire contact is only reduced to a medium coverage effectiveness.</p> <p>b. Please provide examples in which wire to wire contact between covered conductors resulted in an outage and under what conditions.</p>	<p>a. The referenced item in Table PG&E-8.2.1.4 was mislabeled as wire-to-wire contact. This should have been labeled: Equipment / Insulator Failure.</p> <p>Secondary damage or failure. This update will be reflected in a forthcoming non-statutory update for May 2026.</p> <p>b. PG&E does not track covered conductor data for wire-to-wire contact. It is not a high effectiveness of covered conductor for wire-to-wire contact is rated as Very High.</p> <p>c. PG&E does not track covered conductor data for wire-to-wire contact. It is not a high effectiveness of covered conductor for wire-to-wire contact is rated as Very High.</p> <p>d. PG&E does not track covered conductor data for wire-to-wire contact. It is not a high effectiveness of covered conductor for wire-to-wire contact is rated as Very High.</p>	Joseph Mitchell	4/23/2025	4/30/2025	4/30/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-mora_005.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
156	MORA	005	MORA_005	4	No	MORA_005_04	<p>Advanced Technology</p> <p>MORA-S-4 Please describe to us and provide the technical details of Gridscope.</p> <p>a. Please provide the difference in action and function and purpose between Gridscope and EFD.</p>	<p>Gridscope is a distributed reactive real time sensor technology with sensors on approximately every other pole that detect conditions where equipment has failed including downed conductors, broken or leaning poles, vegetation, animal or foreign object in conductors, and loss of power.</p> <p>EFD is a distributed passive sensor technology with sensors every few miles that detect equipment warning signs, prior to failure, deteriorating conditions, connections, to wire, insulators, integrated sensor transformers, and close vegetation proximity.</p>	Joseph Mitchell	4/23/2025	4/30/2025	4/30/2025	https://www.pge.com/assets/pge/docs/outgoing-and-external/pge-external-and-internal-pge-2026-mora_005.xls	0	No	10	Stratistical Awareness and Forecasting	10.3.1
157	MORA	005	MORA_005	5	No	MORA_005_05	<p>Weather</p> <p>MORA-S-5 Provide a list of the 57 worst weather days, along with a geographic listing associated with the designation (polygon, counties, etc.).</p> <p>a. FPI - Climate wind event classifier.</p> <p>b. FPI - Climate wind event classifier.</p> <p>c. FPI - Climate wind event classifier.</p> <p>d. FPI - Climate wind event classifier.</p> <p>e. FPI - Climate wind event classifier.</p> <p>f. FPI - Climate wind event classifier.</p> <p>g. FPI - Climate wind event classifier.</p> <p>h. FPI - Climate wind event classifier.</p> <p>i. FPI - Climate wind event classifier.</p> <p>j. FPI - Climate wind event classifier.</p> <p>k. FPI - Climate wind event classifier.</p> <p>l. FPI - Climate wind event classifier.</p> <p>m. FPI - Climate wind event classifier.</p> <p>n. FPI - Climate wind event classifier.</p> <p>o. FPI - Climate wind event classifier.</p> <p>p. FPI - Climate wind event classifier.</p> <p>q. 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169	SFO	004	SFO_004	5(a)	Yes	SFO_004_05(a)	Fill in the data requested in the attached workbook titled "Decision Tree Results by Circuit Segment.xlsx". This workbook is modeled upon the PG&E 2023 WMP_R0_Sec04_Annex1.xlsx workbook that was submitted with the PG&E 2023-2025 Base WMP and the PG&E response to a California Data Request that included the workbook titled WMP-Discovery2023-2025_DR_California_04-Q05A001.xlsx.	Edie Schwitt	4/30/2025	6/20/2025		No	5	Risk Methodology & Assessment	5.5.2		
169	SFO	004	SFO_004	5	No	SFO_004_05	Fill in the data requested in the attached workbook titled "Decision Tree Results by Circuit Segment.xlsx". This workbook is modeled upon the PG&E 2023 WMP_R0_Sec04_Annex1.xlsx workbook that was submitted with the PG&E 2023-2025 Base WMP and the PG&E response to a California Data Request that included the workbook titled WMP-Discovery2023-2025_DR_California_04-Q05A001.xlsx.	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	1	No	5	Risk Methodology & Assessment	5.5.2
170	SFO	004	SFO_004	6	No	SFO_004_06	Per PG&E's response to Question 26(c) in SFO-PGE-WMP2025-001, where was Figure SRN-PG&E-23-05-00C from PG&E's 2023-2025 Base WMP published?	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4
171	SFO	004	SFO_004	7	No	SFO_004_07	Provide copies of Figures SRN-PG&E-23-05-00A, SRN-PG&E-23-05-00B, SRN-PG&E-23-05-00C from PG&E's 2023-2025 Base WMP in their native format.	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	1	No	5	Risk Methodology & Assessment	5.4
172	SFO	004	SFO_004	8(a)	Yes	SFO_004_08(a)	Provide copies of Figures PG&E-5.2.1-1, PG&E-5.2-1, PG&E-5.2-2, PG&E-5.2-3, PG&E-5.2-4, PG&E-5.2-5, PG&E-5.2.2.2.1, PG&E-6-1.3.1-4, PG&E-6-1.1, PG&E-6-1-2, PG&E-8.2.1-1, PG&E-8.1-2, 1-2, and PG&E-8.2.1-1 in the 2023-2025 Base WMP in their native format.	Edie Schwitt	4/30/2025	5/30/2025		No	5	Risk Methodology & Assessment	5.2.1		
172	SFO	004	SFO_004	8	No	SFO_004_08	Provide copies of Figures PG&E-5.2.1-1, PG&E-5.2-1, PG&E-5.2-2, PG&E-5.2-3, PG&E-5.2-4, PG&E-5.2-5, PG&E-5.2.2.2.1, PG&E-6-1.3.1-4, PG&E-6-1.1, PG&E-6-1-2, PG&E-8.2.1-1, PG&E-8.1-2, 1-2, and PG&E-8.2.1-1 in the 2023-2025 Base WMP in their native format.	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	1	No	5	Risk Methodology & Assessment	5.2.1
173	SFO	004	SFO_004	9	No	SFO_004_09	Which bowtie workshop was used to generate Figure PG&E-5.1.1-3 in the 2023-2025 Base WMP? a. Has this bowtie workshop been updated since it was submitted with the 2024 RAMP Application? If so, explain how. b. If this bowtie workshop was submitted with PG&E's 2024 RAMP Application and has been updated since the 2024 RAMP Application, provide SFO with a copy of the updated workshop. c. Provide the exact settings that were used on the bowtie workshop to generate Figure PG&E-5.1.1-3 in the 2023-2025 Base WMP. d. How did this bowtie workshop inform mitigation selection in this WMP? Provide a step-by-step example demonstrating how this bowtie workshop informed and resulted in the mitigation selections on the circuit segment CORNING 11016102. e. Figure 1-5 of the 2024 RAMP Application exhibited an exposure of 222,209 miles. Figure PG&E-5.1.1-2 of the 2023-2025 Base WMP exhibits an exposure of 472,473 miles. Explain why the number of miles increased from the 2024 RAMP to the 2023-2025 Base WMP. f. Does PG&E intend to update this bowtie workshop, between now and when it submits its 2027 GRC? If so, explain how and why this bowtie workshop will be updated between now and when PG&E submits its 2027 GRC.	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	1	No	5	Risk Methodology & Assessment	5.1.1
174	SFO	004	SFO_004	10	No	SFO_004_010	Which bowtie workshop was used to generate Figure PG&E-5.1.1-3 in the 2023-2025 Base WMP? a. Has this bowtie workshop been updated since it was submitted with the 2024 RAMP Application? If so, explain how. b. If this bowtie workshop was submitted with PG&E's 2024 RAMP Application and has been updated since the 2024 RAMP Application, provide SFO with a copy of the updated workshop. c. Provide the exact settings that were used on the bowtie workshop to generate Figure PG&E-5.1.1-3 in the 2023-2025 Base WMP. d. How did this bowtie workshop inform mitigation selection in this WMP? Provide a step-by-step example demonstrating how this bowtie workshop informed and resulted in the mitigation selections on CORNING 11016102. e. Figure 1-5 of the 2024 RAMP Application exhibited an exposure of 1,208,023 customers. Figure PG&E-5.1.1-3 of the 2023-2025 Base WMP exhibits an exposure of 611,246 customers. Explain why the number of customers decreased from the 2024 RAMP to the 2023-2025 Base WMP. f. Does PG&E intend to update this bowtie workshop, between now and when it submits its 2027 GRC? If so, explain how and why this bowtie workshop will be updated between now and when it submits its 2027 GRC.	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/sgo/docs/outageinfo/and-safety/long-range-outageinfo.pdf , https://www.pge.com/2018-2025-sfo_004.xlsx	1	No	5	Risk Methodology & Assessment	5.1.1

175	SPO	004	SPO_004	11	No	SPO_004_011	<p>Which baseline workshop was used to generate Figure PG06-5.1.1.4 in the 2026-2028 Base WMP?</p> <p>a. Has this baseline workshop been updated since it was submitted with the 2024 RAMP Application? If so, explain how.</p> <p>b. If this baseline workshop was submitted with PG06's 2024 RAMP Application and has been updated since the 2024 RAMP Application, provide SPO with a copy of the updated workshop.</p> <p>c. Provide the exact settings that were used on the baseline workshop to generate Figure PG06-5.1.1.4 in the 2026-2028 Base WMP.</p> <p>d. How did this baseline workshop inform mitigation selection in this WMP? Provide a step-by-step example demonstrating how the baseline workshop informed and resulted in the mitigation selections on CORNING 11018512.</p> <p>e. Figure 5-9 of the 2024 RAMP Application exhibited an exposure of 43,433 miles. Figure PG06-5.1.1.4 of the 2026-2028 Base WMP exhibits an exposure of 43,536 miles. Explain why the number of miles increased from the 2024 RAMP to the 2026-2028 Base WMP.</p> <p>f. Does PG06 intend to update this baseline workshop, between now and when it submits its 2027 GRC? If so, explain how and why this baseline workshop must be updated between now and when it submits its 2027 GRC.</p>	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	1	No	5	Risk Methodology & Assessment	5.1.1
176	SPO	004	SPO_004	12	No	SPO_004_012	<p>Question 11e highlights a marginal change in exposure for EPSS risk between the 2024 RAMP and 2026-2028 Base WMP filings. Questions 1e and 10e highlight a significant change in exposure for Wildlife and PPSPs risk between the 2024 RAMP and 2026-2028 Base WMP. Explain why exposure to EPSS risk exhibits a marginal change, despite significant changes in the exposure to Wildlife and PPSPs risk.</p> <p>a. The significant decrease in exposure to PPSPs risk highlighted in Question 10e resulted in a significant decrease in risk value between the 2024 RAMP and 2026-2028 Base WMP filings. The significant increase in exposure to Wildlife risk highlighted in Question 10e did not result in a significant increase in risk value between the 2024 RAMP and 2026-2028 Base WMP filings. 2. Explain why the change in exposure to PPSPs risk resulted in a corresponding change in risk value, but the change in exposure to Wildlife risk did not result in a corresponding change in risk value.</p>	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	0	No	Appendix D	Appendix D: Areas of Continued Improvement	ACI PG06-25U-06
177	SPO	004	SPO_004	13	No	SPO_004_013	<p>Explain why the % of Ignitions in HFTDHFRA column in Table 3-1 in the PG06-2026-2028 Base WMP does not total to 100%.</p>	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	0	No	2	Overview of WMP	3.4
178	SPO	004	SPO_004	14	No	SPO_004_014	<p>Table 4-1 in 6th Revision of the PG06-2023-2025 Base WMP shows a ramp up in expenditures from 2023-2025 and from 2023-2025. Table 5-3 in the PG06-2026-2028 Base WMP shows a similar ramp up in expenditures.</p> <p>a. Explain what causes the low forecasts in the first year of each WMP.</p> <p>b. Explain what caused the significant variances in 2025-2022 in Table 4-1 from the 6th Revision of the PG06-2023-2025 Base WMP.</p> <p>c. Provide an update to Table 4-1 from the 6th Revision of the PG06-2023-2025 Base WMP that includes the exhibits and variance for 2023 and 2024.</p> <p>d. Provide an explanation for any variances in the update created in response to Question 14c.</p>	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	2	No	3	Overview of WMP	3.6
179	SPO	004	SPO_004	15	No	SPO_004_015	<p>Fig. 135 explains each of the elements in the waterfall figure PG06-4.1.3.2-1 in the 2026-2028 Base WMP. PG06 states that Wildlife (pre-EPSS/PPSPs) is the "dominant" addition based on the data from 2017 to 2024, absent of the use of PPSPs and EPSS operational mitigations.</p> <p>a. Explain why Wildlife (pre-EPSS/PPSPs) is the "dominant" addition based on the data from 2017 to 2024, absent of the use of PPSPs and EPSS operational mitigations.</p> <p>b. Explain why PPSPs Consequence and EPSS Consequence were included in this figure, rather than PPSPs Risk and EPSS Risk.</p> <p>c. Explain why PG06 did not use the product of LURE and CURE for PPSPs and EPSS when generating this figure.</p>	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.1.3
180	SPO	004	SPO_004	16	No	SPO_004_016	<p>Provide a copy of Figure 2-1 in PG06-4 Chapter 1 of the PG06-2024 RAMP without the scaling function (in neutral risk attitude).</p> <p>a. Explain any variances in the values displayed in the Figure 2-1 without the scaling function when compared with PG06's response to WMP-Discovery2026-2028-DR_MORA_003-0007.</p>	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	1	No	6	Wildlife Mitigation Strategy Development	6.1.3.2
181	SPO	004	SPO_004	17	No	SPO_004_017	<p>In Question 1c of PG06's data request response to third WMP-Discovery2026-2028-DR_TURM_003-00101, PG06 said that "The inclusion of PCs results in an increased risk associated with customers in locations where PPSPs Breachable were not in our historical lookback, but have exposure to PPSPs risk based on HFTDHFRA location and system configuration."</p> <p>a. What does HFTDHFRA location mean in this context?</p> <p>b. Does PG06 mean that every customer living within the HFTDHFRA was included in the historical lookback?</p> <p>c. Does this include customers who might be downstream of circuit segment that is exposed to PPSPs?</p> <p>d. Define "system configuration."</p> <p>e. Include a list of the components that were considered within the "system configuration" and explain their relationship to PPSPs Breachable.</p> <p>f. List each procedural step used to determine whether customers were exposed to PPSPs risk based on HFTDHFRA location and system configuration. Provide an explanation for each step.</p>	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	0	No	5	Risk Methodology & Assessment	5.2.1
182	SPO	004	SPO_004	18	No	SPO_004_018	<p>PG06's Response to TURM-PG06-3 Question 1 stated that with regard to the risk score in the attached dataset (i.e., WMP-Discovery2026-2028-DR_TURM_003-00101/andCONF-ax), PG06 replaced the previously provided "mean risk score" with the "validated wildlife risk reduction." Provide an example for a subproject where both the "mean risk score" and "validated wildlife risk reduction" is calculated.</p>	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	1	No	5	Risk Methodology & Assessment	5.4
183	SPO	004	SPO_004	19	No	SPO_004_019	<p>PG06's Response to TURM-PG06-3 Question 1 included the dataset third WMP-Discovery2026-2028-DR_TURM_003-00101/andCONF-ax. PG06's Response to SPO-PG06-3 Question 1 included the same dataset third WMP-Discovery2026-2028-DR_SPO_003-0003/andCONF-ax. Why are these datasets included in both Orders where the Applicable Risk Model is Version 2 and Version 3?</p> <p>a. Why do these TBD Orders exhibit a pre-scoping status?</p> <p>b. Why do these TBD Orders only report Forecast LG Miles to 2027?</p> <p>c. Will WORM v2 and v3 be used to scope projects that are Forecasted for 2028? If so, explain why.</p>	Edie Schmitt	4/30/2025	5/2/2025	5/2/2025	https://www.wapa.gov/Assets/Reg/Docs/Outlets/and_safely/manage-exposures-and-safely/2026-2028-SPO_004.pdf	0	No	5	Risk Methodology & Assessment	5.4

184	SPO	004	SPO_004	20	No	SPO_004_Q020	<p>PG&E's Response to SPO-PGE-WMP2025-003-003 Question 9 included Tables 1, 2 and 3. Provide Excel versions of these tables.</p> <p>a. Confirm that the Advice Letter PG&E referred to in response to SPO-PGE-WMP2025-003 Question 9 was not "PG&E Advice 7130 E-A" but rather PG&E Advice 7150 E-A.</p> <p>b. Include the "Workload Data" Worksheet that we use to generate Tables 1 and 2 and is required by PG&E Advice 7150 E-A.</p> <p>c. Ensure that all of the cells in Tables 1, 2 and 3 include formulas for calculating each number by referencing the worksheets included in Question 20-25.</p> <p>d. Check the submitted Table 1 - some cells appear merged when in fact they should not be merged. For instance, for WORM v3 last where Mitigation Type is listed as Line Removal the Total and 2025 are merged. Correct the table or explain why the cells are merged.</p> <p>e. Similarly, some cells appear to be split - for instance for 2023, there are two values for many of the mitigation types.</p>	<p>Please see attachment "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx".</p> <p>a. Yes, PG&E intended to reference PG&E Advice 7150 E-A in response to SPO-PGE-WMP2025-003 Question 9.</p> <p>b. See attachment "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx" - Project Details, 2025 + 2026 LO, 2025 + 2026 CH and 2025 + 2028 LR Table.</p> <p>c. See attachment "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx" - Project Details and the 2028 Workgroup Table.</p> <p>d. See attached "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx" - each calculation includes the required formula.</p> <p>e. Merged cells in the attached "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx" have been corrected.</p> <p>f. Split cells in the attached "WMP-Discovery2025-2028_DR_SPO_004-Q020a0n01.xlsx" have been corrected.</p> <p>g. Note that in the attachment, PG&E has included "unbalanced" risk reduction for circuit segments that have been fully mitigated, but where discrepancies exist between circuit segment length data as specified in the applicable version of the WORM) and field as-built data. For example, unbalanced overhead removal occurs when the mitigation footage recorded in our as-built dataset is less than the total length of the original overhead line being mitigated. As an example, this can occur when a more direct route with fewer bends than the original route is installed. Although the risk associated with the original overhead line is still addressed, it may not be reflected under the three mitigation categories (CH, LO, or Removal). To ensure every part of the original overhead line is accounted for in the risk reduction calculation, the "unbalanced" difference must be included for a comprehensive assessment.</p>	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	1	No	GH04	GH04	GH04
185	SPO	004	SPO_004	21	No	SPO_004_Q021	<p>Figure PG&E-5.2.1 in the 2025-2028 Base WMP presents "Outage Probability Vegetation" as a Model Section 5.2.3 Distribution Event Probability Model Version 4 (Q&M v4) Documentation is dedicated to describing "Vegetation Model". Pg. 69 presents "asset-based event models" and "contact from object models" but does not present "contact from object models". Does the "contact from object" description apply to "vegetation models"? If not:</p> <p>a. Why are vegetation models not discussed in 69 of the 2025-2028 Base WMP?</p> <p>b. How are vegetation models integrated into the calculation of probability of ignition given today?</p> <p>c. Compared with the Asset Equipment or Contact from Object models, are there any differences in how vegetation models are integrated into the calculation of probability of ignition? If so, list them and explain why there are differences.</p> <p>d. Provide a description of each of the alphanumeric customer categories listed in Table PG&E 5.2.2.2-2 in the 2025-2028 Base WMP.</p> <p>e. Include in the description an explanation of how PG&E established each category.</p> <p>f. What justification did PG&E use to establish the relative customer weightings? PG&E explains that CCI has higher consequence, but why is "Extreme" weighted 20x more than "Significant"?</p>	<p>a. PG&E categorizes "vegetation models" within "contact from object" models (i.e. vegetation contact from the line). This, vegetation models, which are point-based, are described on page 60 of the WMP as part of the description of contact from object models.</p> <p>b. Vegetation models are integrated as described for "contact from object" models, which are all point-based.</p> <p>c. Vegetation models are integrated as described for "contact from object" models, which are all point-based.</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.2.1
186	SPO	004	SPO_004	22(x)	Yes	SPO_004_Q022(x)	<p>Provide a description of each of the alphanumeric customer categories listed in Table PG&E 5.2.2.2-2 in the 2025-2028 Base WMP.</p> <p>a. Include in the description an explanation of how PG&E established each category.</p> <p>b. What justification did PG&E use to establish the relative customer weightings? PG&E explains that CCI has higher consequence, but why is "Extreme" weighted 20x more than "Significant"?</p>	<p>a. PG&E categorizes Critical Customers according to both the California Public Utilities Commission (CPUC) definition and PG&E's internal designations. See table below for description and explanation of how PG&E established each category.</p> <p>b. The relative customer weightings provided in Table PG&E 5.2.2.2-2 were derived from PG&E's internal Customer Criticality and PG&E's internal Risk team as a starting point to integrate weightings into the different types of critical customers. PG&E subject matter experts used their best judgment to develop the relative weighting multipliers. For example, "Extreme" is weighted 20x higher than "Significant" because PG&E's subject matter experts determined that public emergency response infrastructure warranted such relative prioritization.</p>	Edie Schwitt	4/30/2025	5/30/2025	5/30/2025		No	5	Risk Methodology & Assessment	5.2.2.2	
186	SPO	004	SPO_004	22	No	SPO_004_Q022	<p>Provide a description of each of the alphanumeric customer categories listed in Table PG&E 5.2.2.2-2 in the 2025-2028 Base WMP.</p> <p>a. Include in the description an explanation of how PG&E established each category.</p> <p>b. What justification did PG&E use to establish the relative customer weightings? PG&E explains that CCI has higher consequence, but why is "Extreme" weighted 20x more than "Significant"?</p>	<p>a. PG&E categorizes Critical Customers according to both the California Public Utilities Commission (CPUC) definition and PG&E's internal designations. See table below for description and explanation of how PG&E established each category.</p> <p>b. The relative customer weightings provided in Table PG&E 5.2.2.2-2 were derived from PG&E's internal Customer Criticality and PG&E's internal Risk team as a starting point to integrate weightings into the different types of critical customers. PG&E subject matter experts used their best judgment to develop the relative weighting multipliers. For example, "Extreme" is weighted 20x higher than "Significant" because PG&E's subject matter experts determined that public emergency response infrastructure warranted such relative prioritization.</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.2.2.2
187	SPO	004	SPO_004	23	No	SPO_004_Q023	<p>Related to Figure PG&E 5.2.2.3-1 in the 2025-2028 Base WMP on pg. 72, PG&E states "... the two circuit segments share a common plant, FE, and a that support structure (pole) asset also located in plant FE. To keep the total sum of risk in the network constant, these shared risk results must be partially distributed to each of the circuit segments. The aggregation methodology, in this case, would assign half of the FE plant risk and half of the support structure risk to each of the circuit segments."</p> <p>a. Subnet "Radix Algorithms and Methodologies" please explain:</p> <p>b. If not explained in "Radix Algorithms and Methodologies" please explain:</p> <p>c. Why, in this example, was the risk distributed to each of the circuit segments equally?</p> <p>d. Are there instances where the risk is not distributed equally?</p> <p>e. If so, explain what those instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment.</p> <p>f. Provide examples from a specific circuit segment.</p> <p>g. If not, explain why.</p> <p>h. Are there instances of a plant sharing more than two circuit segments?</p> <p>i. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names.</p> <p>j. If not, explain why not.</p>	<p>a. Please see attachment "WMP-Discovery2025-2028_DR_SPO_004-Q023a0n01.pdf" for the requested information.</p>	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	1	No	5	Risk Methodology & Assessment	5.2.2.2
187	SPO	004	SPO_004	23(x)	Yes	SPO_004_Q023(x)	<p>Related to Figure PG&E 5.2.2.3-1 in the 2025-2028 Base WMP on pg. 72, PG&E states "... the two circuit segments share a common plant, FE, and a that support structure (pole) asset also located in plant FE. To keep the total sum of risk in the network constant, these shared risk results must be partially distributed to each of the circuit segments. The aggregation methodology, in this case, would assign half of the FE plant risk and half of the support structure risk to each of the circuit segments."</p> <p>a. Subnet "Radix Algorithms and Methodologies" please explain:</p> <p>b. If not explained in "Radix Algorithms and Methodologies" please explain:</p> <p>c. Why, in this example, was the risk distributed to each of the circuit segments equally?</p> <p>d. Are there instances where the risk is not distributed equally?</p> <p>e. If so, explain what those instances would be and how PG&E determines the proportion of risk that should be attributed to each circuit segment.</p> <p>f. Provide examples from a specific circuit segment.</p> <p>g. If not, explain why.</p> <p>h. Are there instances of a plant sharing more than two circuit segments?</p> <p>i. If so, explain why a plant can share more than two circuit segments. Provide examples by citing circuit segment names.</p> <p>j. If not, explain why not.</p>	<p>a. Please see attachment "WMP-Discovery2025-2028_DR_SPO_004-Q023a0n01.pdf" for the requested information.</p>	Edie Schwitt	4/30/2025	5/30/2025	5/30/2025		No	5	Risk Methodology & Assessment	5.2.2.2	
188	SPO	004	SPO_004	24	No	SPO_004_Q024	<p>When discussing PSPS Risk on pages 74-75 in the 2025-2028 Base WMP, PG&E states that "... PSPS likelihood and PSPS consequence are calculated by the probability and consequence of each individual customer service, plant, or (PSPD). Describe each step in the procedure that PG&E takes to estimate the PSPS likelihood and consequence of each individual customer service, plant, or (PSPD).</p> <p>a. Explain how PG&E predicts where PSPS events will occur for customers that PG&E has not had a PSPS event.</p> <p>b. Explain how PG&E uses each of the Model Inputs listed in Figure PG&E-B-1.3 to estimate PSPS likelihood for each individual customer service, plant, or (PSPD).</p> <p>c. Page 69 notes that the "combination of weather, melting, and restoration is represented as total CM". Are the values associated with weather, melting and restoration measured in CM and just added together? Additionally, explain the following:</p> <p>d. How does PG&E estimate the severity of an expected weather period in which a customer is expected to be de-energized?</p> <p>e. How did PG&E come up with the estimate that patrol and restoration typically take 11 hours?</p> <p>f. Why did PG&E not use Estimated Time of Restoration?</p>	<p>a. PG&E is assuming that the WORM version archival includes all source data, model code, and output data.</p> <p>b. All aspects of WORM v3 have been archived and will be available for future use.</p> <p>c. Currently, WORM v3 has been archived indefinitely. However, as additional WORM versions are produced for future WMPs, PG&E may opt to end-of-life retention policy in the future to deprecate older model versions once all mitigation project work supported by a version has been completed or cancelled.</p> <p>d. Pursuant to agreement with SPO, PG&E will respond to this subject by May 13, 2025.</p>	Edie Schwitt	4/30/2025	5/30/2025	5/30/2025		No	7	Public Safety Power Shutoff		7
189	SPO	004	SPO_004	25	No	SPO_004_Q025	<p>In its description of CURE on page 59 in the 2025-2028 Base WMP, PG&E states "Our perspective is that the Burn Probability is a deterministic assessment of local conditions at the time of an ignition event rather than a probabilistic outcome." There is no mention of Burn Probability in the WORM Consequence Model Version 4 (WCM v4) Documentation. Provide a step-by-step description of PG&E's deterministic assessment of Burn Probability.</p> <p>a. If PG&E's deterministic assessment of Burn Probability is conducted with BME judgement, list the criteria BMEs are required to consider in their assessment.</p> <p>b. If PG&E's deterministic assessment of Burn Probability is conducted with BME judgement, explain how many BMEs participated in an estimation of Burn Probability based on the local conditions for each circuit segment.</p>	<p>a. PG&E's deterministic assessment of Burn Probability is conducted with BME judgement, list the criteria BMEs are required to consider in their assessment.</p> <p>b. If PG&E's deterministic assessment of Burn Probability is conducted with BME judgement, explain how many BMEs participated in an estimation of Burn Probability based on the local conditions for each circuit segment.</p>	Edie Schwitt	4/30/2025	5/30/2025	5/30/2025		No	5	Risk Methodology & Assessment	5.4	
190	SPO	004	SPO_004	26	No	SPO_004_Q026	<p>What steps has PG&E taken to archive any data or models related to WORM v3?</p> <p>a. Have any aspects of WORM v3 not been archived? If so, explain why they were not archived.</p> <p>b. If any aspects of WORM v3 were not archived, would this prevent a party from seeking for data analyses using WORM v3 in the future?</p> <p>c. Have any and PG&E maintain an archive of the data or models related to WORM v3?</p> <p>d. What data is PG&E maintaining of its previous asset data? What data would be missing if PG&E wanted to backload the risk in pre-2023 years using WORM v4? How is PG&E working to ensure that future models have the data necessary to backload the risk to current system configurations?</p>	<p>a. WORM v3 has been archived. The WORM version archival includes all source data, model code, and output data.</p> <p>b. All aspects of WORM v3 have been archived and will be available for future use.</p> <p>c. Currently, WORM v3 has been archived indefinitely. However, as additional WORM versions are produced for future WMPs, PG&E may opt to end-of-life retention policy in the future to deprecate older model versions once all mitigation project work supported by a version has been completed or cancelled.</p> <p>d. Pursuant to agreement with SPO, PG&E will respond to this subject by May 13, 2025.</p>	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4
190	SPO	004	SPO_004	26(x)	Yes	SPO_004_Q026(x)	<p>What steps has PG&E taken to archive any data or models related to WORM v3?</p> <p>a. Have any aspects of WORM v3 not been archived? If so, explain why they were not archived.</p> <p>b. If any aspects of WORM v3 were not archived, would this prevent a party from seeking for data analyses using WORM v3 in the future?</p> <p>c. Have any and PG&E maintain an archive of the data or models related to WORM v3?</p> <p>d. What data is PG&E maintaining of its previous asset data? What data would be missing if PG&E wanted to backload the risk in pre-2023 years using WORM v4? How is PG&E working to ensure that future models have the data necessary to backload the risk to current system configurations?</p>	<p>a. WORM v3 has been archived. The WORM version archival includes all source data, model code, and output data.</p> <p>b. All aspects of WORM v3 have been archived and will be available for future use.</p> <p>c. Currently, WORM v3 has been archived indefinitely. However, as additional WORM versions are produced for future WMPs, PG&E may opt to end-of-life retention policy in the future to deprecate older model versions once all mitigation project work supported by a version has been completed or cancelled.</p> <p>d. Pursuant to agreement with SPO, PG&E will respond to this subject by May 13, 2025.</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/outage-probability-vegetation-assessment-2025-2028_SPO_004.xlsx	0	No	5	Risk Methodology & Assessment	5.4

191	SPO	004	SPO_004	27	No	SPO_004_027	List all the feasibility constraints that are relevant to the decision trees found in Figures PG&E-8.2-1, PG&E-8.2-1.2, and PG&E-8.2-1.3 in the 2026-2028 Base WMP. a. How are these feasibility constraints operationalized within these decision trees? b. How are these feasibility constraints quantified? c. How are these feasibility constraints addressed in PG&E's Cost Benefit Analysis?	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/who/undergrounding-and-safety/wmp-discovery2026-2028-DR_TURN_003-Q201/AMN/CONFW.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
192	SPO	004	SPO_004	28	No	SPO_004_028	On page 124 in the 2026-2028 Base WMP, PG&E states that it has adopted a consistent treatment of risk tolerance in its risk assessment and mitigation strategies. In an Administrative Law Judge Ruling issued April 22, 2025 in the PG&E 2024 WMP Proceeding (A-14-00018), PG&E was ordered to not refer to "risk tolerance" to justify risk mitigation activities in the 2027 GRC Rate Case. a. Explain when mitigations discussed in the 2026-2028 WMP will need to be reconsidered in light of this order. b. Explain how and why risk tolerance was used as a justification for selecting those mitigation strategies. c. Explain what risk tolerance played in the decision trees found in Figures PG&E-8.2-1.1, PG&E-8.2-1.2, and PG&E-8.2-1.3 in the 2026-2028 Base WMP. d. Explain how these three decision trees will change in light of the ALJ Ruling. e. Explain any other decision-making procedure, protocol, tool or other approach where a treatment of risk tolerance was integrated into PG&E's mitigation selection process. f. Explain how these approaches will change in light of the ALJ Ruling.	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/customers/who/undergrounding-and-safety/wmp-discovery2026-2028-DR_TURN_003-Q201/AMN/CONFW.pdf	0	No	5	Risk Methodology & Assessment	5
193	SPO	004	SPO_004	29	No	SPO_004_029	Provide a detailed explanation of how PG&E addresses tail risk in its risk models presented in the 2026-2028 Base WMP? a. Is the EORM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not? b. Is the WTRM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not? c. Is the WTRM impacted by PG&E's approach to addressing wildfire tail risk? If so, how? If not, why not?	Edie Schwitt	4/30/2025	5/30/2025			No	5	Risk Methodology & Assessment	5.4	
194	SPO	004	SPO_004	30	No	SPO_004_030	Provide a detailed explanation of how PG&E applies the risk scaling function in its risk models presented in the 2026-2028 Base WMP? a. Is the risk scaling function applied to the EORM? If so, how? If not, why not? b. Is the risk scaling function applied to the WTRM? If so, how? If not, why not? c. Is the risk scaling function applied to the WTRM? If so, how? If not, why not?	Edie Schwitt	4/30/2025	5/30/2025			No	5	Risk Methodology & Assessment	5.4	
195	SPO	004	SPO_004	31	No	SPO_004_031	On page 124 in the 2026-2028 Base WMP, PG&E states "PG&E's Investment Planning group leverages the CBRA and the ROP to prioritize the proposed investments to achieve risk reduction at a reasonable cost as part of its GRC forecast." a. How does PG&E leverage CBRA to prioritize investments in risk reduction? Explain. b. List which non-CBRA aspects of the ROP PG&E leverages to prioritize investments in risk reduction. c. Explain how PG&E leverages those non-CBRA aspects of the ROP to prioritize investments in risk reduction. d. Define "reasonable cost." Explain how PG&E incorporates "reasonable cost" as a constraint in its risk models.	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/customers/who/undergrounding-and-safety/wmp-discovery2026-2028-DR_TURN_003-Q201/AMN/CONFW.pdf	0	No	3	Overview of WMP	3.6
230	GPI	001	GPI_001	24a)	Yes	GPI_001_024a)	WFC model questions: (1) In CBRA_001_024, DEIS asked (a,b) "how many 'worst weather days' are included within the set used for WFC?" PG&E responded: "PG&E includes 271 worst weather days from March 2000 to Dec 2020." Of the total 271 worst weather days modeled with 24-h Technysys fire spread simulations, how many simulations are included in the quantification of each CBRA piece? If a subset of the 271 worst weather day simulations are applied in the WFC for each CBRA piece, what is the basis for selecting whether a Technysys worst weather day 24-h simulation is used as a WFC input to calculate CBRA for a given piece? (2) Confirm that the only outputs from 24-h Technysys fire spread simulations input into the WFC to determine greater CBRA values are Flame Length and Rate of Spread. If other fire spread simulation outputs (e.g. average, buildings destroyed, etc.) are included in any aspect of the WFC and final CBRA valuation, please list them and describe the methods used. (3) It is our understanding that PG&E previously calibrated Technysys simulation Flame Length and Rate of Spread "Destructive Fire" thresholds based on 1-h simulations (PG&E 2023-2025 WMP PR, p. 175). Did PG&E analyze the relationship between 24-h Technysys simulation Flame Length and Rate of Spread and its revised "Predicted Destructive Potential" tiered fire classifications? If so, provide the calibration results. (4) PG&E validates its use of 24-h versus 1-h Technysys simulations based on the correlation between simulated historical fire versus actual areas burned (wildfire-consequence-model-documentation-v4.pdf, p. 13). Did PG&E complete a similar assessment for simulated historical fire versus actual buildings destroyed? If so, please provide the results. Does PG&E apply the simulated areas burned from 24-h Technysys simulations in any of its risk quantification models? (2) 25 FFR outputs are an input to the WFC Model. FFR full data is sourced from Technysys and is reported as being updated annually PG&E 2026-2028 WMP vol. 1, p. 470). Please clarify if a 2020 data layer was used as an input to generate the backcast FFR R values that are input into the WFC for the "11 fire seasons covering 2012 through 2022 (wildfire-consequence-model-documentation-v4.pdf, p. 20). If not, please provide the full data set (wildfire-consequence-model-documentation-v4.pdf, p. 20).	Zoe Harold	5/6/2025	5/20/2025	5/20/2025	https://www.pge.com/customers/who/undergrounding-and-safety/wmp-discovery2026-2028-DR_TURN_003-Q201/AMN/CONFW.pdf	0	No	5	Risk Methodology & Assessment	5.4
231	OEIS	009	OEIS_009	14a)	Yes	OEIS_009_014a)	Regarding 2026 Risk Reduction for Undergrounding and Covered Conductor Table B-1 in PG&E's 2026-2028 Base WMP includes the risk reduction percentages for 2026 based on the current risk models WORM v4 and WTRM v2. Given that the year 2026 is part of its current General Rate Case Decision, Energy Safety Council currently expects the risk reduction to be calculated by WORM v4 and WTRM v1. a. Provide the percentage risk reductions planned for 2026 for the following activities based on WORM v3 and WTRM v1 i. System Hardening - Undergrounding (GH-04) ii. System Hardening - Transmission Detail Spacing (GH-06) iii. System Hardening - Transmission Conductor Segment Replacement (GH-11) iv. Overhead Hardening and Line Removal - Distribution (GH-12)	Nathan Poon	5/6/2025	5/23/2025	5/23/2025	https://www.pge.com/customers/who/undergrounding-and-safety/wmp-discovery2026-2028-DR_TURN_003-Q201/AMN/CONFW.pdf	No	5	Risk Methodology & Assessment	5.4	

94	SPO	001	SPO_001	21(a)	Yes	SPO_001_Q21(a)	<p>SPO is attempting to compute the cost per unit for many of the WMP initiatives tracked in the WMP Implementation Dashboard (WMP Implementation Dashboard). Review and confirm the cost per unit is correct for the initiative. See the attached worksheet that POE WMP Implementation Dashboard.xlsx</p> <p>a. Follow all of the instructions within the cells and notes included in POE WMP Implementation Dashboard.xlsx.</p> <p>b. SPO is attempting to do a similar exercise for the 2025-2028 WMP but the QOR tabular data was not submitted. SPO saw some of the data in the WMP, but was unable to determine if the data was inclusive of all initiatives. Where should SPO look for equivalent data?</p>	Edie Schwitt	4/10/2025	5/22/2025	5/22/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_001.xlsx	1	3	Overview of WMP	5.6
196	SPO	004	SPO_004	32	No	SPO_004_Q32	<p>On page 125 in the 2025-2028 Base WMP, PGAE explains that SME Judgment is integrated into the process of mitigation selection through "cross-functional working groups". Provide a detailed narrative description of how these cross-functional working groups operate.</p> <p>a. List each type of document or other kinds of information that is created at these cross-functional working groups.</p> <p>b. How are these documents or other kinds of information related?</p> <p>c. Provide an example of each type of document or other kinds of information that was generated by the cross-functional working group when selecting mitigations on circuit segment CORNING 11018512.</p> <p>d. Do the working groups evaluate every asset within a circuit segment to determine which mitigation should be implemented?</p> <p>e. If so, explain how this is done.</p> <p>f. If not, explain why not.</p> <p>g. List the inputs the SMEs review to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.</p> <p>h. Explain how the SMEs use each of those inputs to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.</p>	Edie Schwitt	4/30/2025	5/21/2025	5/21/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_004.xlsx	0	No	Wildfire Mitigation Strategy Development	6.1.3
200	SPO	004	SPO_004	36	No	SPO_004_Q36	<p>Throughout the 2025-2028 Base WMP, PGAE uses the terms system hardening, grid hardening, and mitigation activities to describe the same category of mitigations, namely undergrounding, covered conductor, and distribution line removal. Explain why PGAE uses three different terms for this category of mitigations.</p> <p>a. Are there differences between these terms? If so, explain.</p>	Edie Schwitt	4/30/2025	5/8/2025	5/8/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_004.xlsx	0	No	Grid Design, Operations, and Maintenance	8
201	SPO	004	SPO_004	37	No	SPO_004_Q37	<p>On page 135 in the 2025-2028 Base WMP, PGAE states "Over time, undergrounding also has lower operations and maintenance expenses." Provide documentation that corroborates this statement.</p> <p>a. What is the time scale of the analysis that led to this statement? Why was that time scale used?</p> <p>b. How would the results of the analysis be different if an alternative time scale was used?</p> <p>c. Consider the possible results of the analysis if the following time scales were used:</p> <p>(1) Annual.</p> <p>(2) Decadal.</p> <p>(3) Multi-decadal (this must include the decommissioning and replacement costs).</p>	Edie Schwitt	4/30/2025	5/9/2025	5/9/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_004.xlsx	1	No	Grid Design, Operations, and Maintenance	8.2.2
202	SPO	004	SPO_004	38	No	SPO_004_Q38	<p>On page 136 in the 2025-2028 Base WMP, PGAE states "For many of the mitigation programs, wildfire risk is the primary driver of prioritization." List the mitigation programs whose wildfire risk is not the primary driver of prioritization.</p> <p>a. For each mitigation program in the list, explain what is the primary driver of prioritization and why.</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_004.xlsx	0	No	Risk Methodology & Assessment	5
197	SPO	004	SPO_004	33	No	SPO_004_Q33	<p>On page 125 in the 2025-2028 Base WMP, PGAE explains that the cross-functional working groups leverage both qualitative risk assessments and qualitative operational insights. Provide a list of the qualitative operational insights.</p> <p>a. Describe how each of these qualitative operational insights can contribute to the mitigation selection.</p> <p>b. Provide an example. Explain how and why each of these qualitative operational insights either did or did not inform the selection of mitigations on circuit segment CORNING 11018512.</p> <p>c. Describe how each of these qualitative operational insights are integrated into the decision trees found in Figures PGAE-8.2.1-1, PGAE-8.2.1-2, and PGAE-8.2.1-3 in the 2025-2028 Base WMP.</p> <p>d. Which of the steps in the decision-tree reviews these qualitative operational insights? How is that performed?</p>	Edie Schwitt	4/30/2025	5/21/2025	5/21/2025	https://www.pca.state.wa.gov/pdca/tables-and-safety/wmp-prep-worksheet-and-report-2025-SPO_004.xlsx	0	No	Wildfire Mitigation Strategy Development	6.1.3

203	SPO	004	SPO_004	39	No	SPO_004_039	<p>For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost Benefit Ratios.</p> <p>a. Provide the Cost Benefit Ratios for each of these activities as required by 2.2.2.13.0207.</p> <p>b. If these calculations of CBR vary from what was submitted in PG&E's 2024 RAMP Application, explain how much they vary and why.</p> <p>c. Complete Table 6-3 for all activities listed in this WMP. Add the Initiative Activity Tracking ID to a column in the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.</p>	<p>The following table uses 2026-2028 program Cost Benefit Ratios (CBR) values (unless otherwise noted) from the enterprise risk models and investment planning forecasts to be submitted as part of our May 2027 GRC filing. The investment programs (including equipment replacement and short notice evaluations) cost benefit scores are currently unavailable and will be provided later.</p> <p>The value values compares the RAMP CBRs and CBRs provided in Table 6-3. The original CBR submitted in Table 6-3 was based on February vintage GRC forecasts and analyses that was available at the time of the 2026-2028 WMP filing. The values provided in support of our PG&E's finalized forecasts and analyses to be submitted in our May filing of the 2027 GRC using Baseline 2024. A brief description of the various items are described below:</p> <p>a) Reduction driven by higher percentage of pole work that has a lower CBR value when compared to non-pole capital and expense projects</p> <p>b) New program for 2027 GRC</p> <p>c) Increase driven by a lower estimated unit cost of work and refreshed outage to ignition ratios when compared to RAMP filing</p> <p>d) Risk Reduction from RAMP to GRC is lower while costs remained relatively the same</p> <p>e) Increase driven by the inclusion of secondary and service info scoped</p> <p>f) Reduction driven by the increase in allocated costs tied to PPSs</p> <p>g) Reduction driven by lower EPSS effectiveness</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-SPO_004.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6
204	SPO	004	SPO_004	40	No	SPO_004_040	<p>On page 102 in the 2026-2028 Base WMP, PG&E provides an explanation for how it calculated Activity Effectiveness – Overall Utility Risk. The total value for Wildfire Risk (Dx, Tx, Sub) is \$19.424 Million. Explain why this value is different from the \$19.579 Million expressed in Figure 6.1.3.2.1.</p> <p>a. Explain why the PPSs and EPSS values here are presented as "Risk" but in Figure 6.1.3.2.1 these values are referred to as "Consequence".</p> <p>b. Explain why the value of Wildfire Risk (Dx, Tx, Sub) is different, but the values for PPSs and EPSS Risk on page 102 remain exactly the same as the values for PPSs and EPSS Consequence in Figure 6.1.3.2.1.</p>	<p>The value expressed in Figure 6.1.3.2-1 is the aggregated baseline risk value and includes underground. This is why the sum of the Dx, Tx, and Sub Wildfire Risk differs on page 102 from Figure 6.1.3.2.1.</p> <p>a. "Consequence" in Figure 6.1.3.2-1 means the total consequence of all risk events which represents the same value as "Risk" on page 102. This is because Risk Value is calculated as the product of Exposure, Likelihood of Risk Event (LoRE) and Consequence of Risk Event (CoRE), and as such, the events Risk and Consequence are used interchangeably from page 102 to Figure 6.1.3.2.1.</p> <p>b. The \$19.424 million value of Wildfire Risk (Dx, Tx, Sub) on page 102 includes overhead distribution, overhead transmission, and substation wildfire risk, whereas the \$19.579 million value of Figure 6.1.3.2.1 also includes underground wildfire risk. The values for PPSs and EPSS Risk on page 102 remain exactly the same as the values for PPSs and EPSS Consequence in Figure 6.1.3.2.1 for the reason explained in the answer to support (a) above.</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-SPO_004.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
205	SPO	004	SPO_004	41	No	SPO_004_041	<p>On page 103 in the 2026-2028 Base WMP, PG&E describes the Activity Effectiveness – Wildfire Risk calculation and notes that a study was conducted with subject matter experts (SME) who were asked to "fill out a questionnaire about the effectiveness of these activities against roughly 2,000 failure modes".</p> <p>a. How many SMEs participated in this study?</p> <p>b. Provide a list of the expertise for each SME that participated in this study.</p> <p>c. How does the questionnaire compare with the mitigation effectiveness study submitted to SPO as "WMP-Discovery2026-2028_DR_SPO_004-Q03A0401"?</p> <p>d. Provide a narrative explanation of the questionnaire and how SMEs were expected to fill it out.</p> <p>e. Describe what is meant by categorical level of effectiveness.</p> <p>f. If a scale was used for SMEs to respond to the questionnaire, provide a detailed explanation of that scale and how it was established.</p> <p>g. If a scale was used, was a variance and standard deviation calculated for the SME responses to each failure mode? If so, provide a table that displays the mean, variance and standard deviation for the SME's scaled responses to each of the failure modes.</p> <p>h. Provide a copy of the questionnaire about the effectiveness of these activities against the failure modes.</p> <p>i. Provide a copy of the results of the study SME notes on page 103 in the 2026-2028 Base WMP.</p>	<p>Approximately 24 SMEs from the core design team participated in the study.</p> <p>1. The SMEs are Senior Electric Distribution Engineers whose position requires a Bachelor of Science in Electrical Engineering from a college or university accredited by the Accreditation Board of Engineering and Technology. The Senior Electric Distribution Engineers have a minimum of 8 years' experience in engineering and design. Some of the Grid Design Engineers are licensed professional engineers with the state of California through this license was not required for the completion of the study.</p> <p>2. The mitigation effectiveness study submitted to SPO as "WMP-Discovery2026-2028_DR_SPO_004-Q03A0401" also includes the outputs from the mitigation effectiveness study. SMEs were asked to provide an estimated level of effectiveness for each mitigation activity considering various combinations of outage cause, equipment condition, equipment condition, and equipment condition.</p> <p>3. The questionnaire listed observed combinations of outage cause, equipment condition, equipment condition, and equipment condition. For each combination, and for each mitigation activity, SMEs were asked to assign a level of effectiveness such as "None", "Minimal", or "High".</p> <p>Table PG&E 2.2.2.1 in PG&E 2026-2028 WMP is an example of this analysis.</p> <p>4. Categorical level of effectiveness refers to a qualitative description of the estimated mitigation effectiveness of an activity against an outage considering combinations of the cause, equipment condition, equipment condition, and equipment condition that have been observed across historic outages.</p> <p>5. The scale used by SMEs to respond to the questionnaire is described in PG&E 2026-2028 Base WMP (pages 185-189):</p> <ul style="list-style-type: none"> • At 100 percent effective – Assumes no ignition events. • Very high: 90 percent effective – Assumes the mitigation addresses most ignition concerns, but still leaves a potential for ignition. • High: 75 percent effective – Assumes the mitigation provides significant ignition reduction, however, there is still a chance for contact or failure. • Medium high: 60 percent effective – More than likely ignition reduction for an event. • Medium: 40 percent effective – Less probable ignition reduction for an event. 	Edie Schwitt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-SPO_004.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
206	SPO	004	SPO_004	42	No	SPO_004_042	<p>Related to the explanation of the Cost Benefit Ratios described on pages 154-155 in the 2026-2028 Base WMP, provide an explanation of how PG&E addressed "discounting of inflation".</p> <p>a. Did PG&E use a discount rate scenario specified in 2.24.05.0401?</p> <p>b. If so, explain which scenario and why that was chosen.</p> <p>c. If not, explain why not. Also explain how PG&E addressed discounting and why it chose that method.</p>	<p>PG&E addressed "discounting of inflation" by discounting values by a real discount rate in its present value evaluations. In these evaluations, the effects of inflation are incorporated by multiplying values by the inflation rate to obtain nominal future values before discounting by the nominal discount rate over the applicable timeframe to obtain the present value. The effective multiplier resulting from these operations is equivalent to discounting by a real discount rate evaluated as:</p> $\frac{1}{1+r} \times \frac{1}{1+i} = \frac{1}{1+r+i+ri}$ <p>Where:</p> <ul style="list-style-type: none"> $\frac{1}{1+r}$ is the nominal discount rate, $\frac{1}{1+i}$ is the inflation rate, $r+i+ri$ is the real discount rate. <p>PG&E assumed the After-Tax Weighted Average Cost of Capital (ATWACC) and ATWACC discount rate for discounting in present value evaluations which corresponds to the "ATWACC Discount Rate Scenario" in 2.24.05.04. The ATWACC was selected as the nominal discount rate in alignment with PG&E's current Enterprise Risk Model evaluations, which similarly use the ATWACC rounded to the nearest 50 basis points per 0.5 percent as the nominal discount rate. PG&E chose to use ATWACC because it reflects PG&E's financing costs, and also believes that it is also a proper discount rate for the benefits in the scenarios as well as costs in the denominator (because benefits WMP-Discovery 2026-2028_DR_SPO_004-Q040 Page 2 are measured based on willingness to pay (willing), market replacement costs (financial, gas reliability), or both (electric reliability)).</p>	Edie Schwitt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-SPO_004.xlsx	0	No	3	Overview of WMP	3.6
207	TURN	004	TURN_004	1	No	TURN_004_01	<p>Regarding Table 5-5 on page 103 and PG&E's risk prioritization, why doesn't PG&E prioritize circuit by risk per mile rather than allocate risk?</p> <p>Does PG&E agree that risk per mile of each CPZ is a more accurate way to capture the risk of each CPZ relative to each other? Please explain why or why not.</p>	<p>Table 5-5 is a list of CPZs with the highest overall utility risk in PG&E's service territory, however, PG&E does not prioritize work based on risk. PG&E primarily prioritizes work based on the normalized risk, or risk per mile. PG&E agrees that risk per mile is a more accurate metric than our risk to compare the relative risk of each CPZ. Additionally, PG&E has implemented wildfire risk (LRI, or per mile in some versions of the VOPRM, but also recognizes the importance of overall utility risk per mile.</p>	A Mirela Fak-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-TURN_004.xlsx	0	No	5	Risk Methodology & Assessment	5
208	TURN	004	TURN_004	2	No	TURN_004_02	<p>Regarding Table 6.1.3-1 on page 128:</p> <p>a. Why does the removal with wildfire grid result in 98% effectiveness? Are all overhead lines removed in each of these instances or are lines underground? Please provide an explanation using an example project to illustrate the mitigation effectiveness.</p> <p>b. Please provide the combined mitigation effectiveness of PPSs and EPSS.</p> <p>c. Please provide all supporting calculations/assumptions in Excel.</p>	<p>REASONING: TABLE 6.1.3-1 ON PAGE 128</p> <p>a. Remove grid systems typically serve customers through low voltage overhead lines. While all high-voltage overhead lines are removed, the analysis for this mitigation assumed that the remaining secondary and service lines still pose an ignition risk, resulting in approximately 98% reduction of the overall wildfire risk. The absolute removal of all of lines, including both primary and secondary voltage, would result in the same elimination of ignition risk, or 100% effectiveness, since no source for ignition would be present.</p> <p>b. Based on Table 6.1.3.1 on page 128 as WMP-Discovery2026-2028_DR_TURN_004-Q03A0401.xlsx, PPSs effectiveness is estimated to be 98%. Based on "WMP-Discovery2026-2028_DR_TURN_004-Q03A0401.xlsx", EPSS effectiveness is estimated to be 98%.</p> <p>c. PPSs and EPSS mitigation programs are assumed to operate independently. Effectiveness represents the probability that a program successfully mitigates a risk. The effectiveness is the chance that the program does not mitigate the risk. When programs operate independently, the chance that both programs do not mitigate the risk is the product of their individual effectiveness. The combined effectiveness of two independent mitigation programs is then the complement of both programs being ineffective. Therefore, the combined effectiveness is approximately 98%.</p> <p>The supporting calculations are provided in the "WMP-Discovery2026-2028_DR_TURN_004-Q03A0401.xlsx" tab "Combined_Effectiveness.xlsx".</p>	A Mirela Fak-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-TURN_004.xlsx	1	No	6	Wildfire Mitigation Strategy Development	6.1.3
209	TURN	004	TURN_004	3	No	TURN_004_03	<p>Regarding Figure 6.1.3.2-1 on page 130:</p> <p>a. Please provide this figure in Excel with all supporting data, calculations, and assumptions.</p> <p>b. Please calculate the figure when engineering planned mitigations for PPSs and EPSS consequences in 2026.</p> <p>c. Please provide in Excel with all supporting data, calculations, and assumptions.</p>	<p>a. Please see the attachment "WMP-Discovery2026-2028_DR_TURN_004-Q03A0401.xlsx" for the requested information. The response to support (a) is included in the "Q03B" worksheet of the attachment.</p> <p>b. Please see above.</p>	A Mirela Fak-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-TURN_004.xlsx	1	No	6	Wildfire Mitigation Strategy Development	6.1.3
210	TURN	004	TURN_004	4	No	TURN_004_04	<p>Section 6.2.1.2, page 150 states "The total number of miles within the 100 CPZ and 4,250 total miles of circuit are close to 25,000".</p> <p>a. Shouldn't the total number of circuit miles be closer to 25,000?</p> <p>b. Please explain the 4,250 figure and what it represents.</p>	<p>To clarify, the quoted language on page 150 of the WMP is part of Energy Safety's prompt for this section and was provided by Energy Safety in the WMP-Query2026-2028_DR_TURN_004-Q03A0401.xlsx. It was included as an example to help understand the information provided in this section and is not language that PG&E provided. PG&E's response to Energy Safety's prompt begins after the solid-dotted line at the bottom of page 150.</p>	A Mirela Fak-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/assets/pge/docs/OutageRisk/2026-2028-TURN_004.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.2

211	TURN	004	TURN_004	5	No	TURN_004_05	<p>Section 8.2.1, page 181 states "PG&E will analyze the proposed CC road to determine if there are areas with tree strike risk or locations that could be subject to ingress/egress issues."</p> <p>Please define "tree strike risk."</p> <p>Is "tree strike risk" found to be present, does this mean the CC is at risk? Please explain.</p> <p>Please define ingress/egress issues as used here.</p>	<p>4. For purposes of the system hardening program, tree strike risk refers to the likelihood of trees falling into the overhead span, regardless of wind speed or direction, and blocking a proposed overhead feedline span. An area with a tree strike score of 6 or higher is identified as "Area of impact identified, relocate to underground preferred." To both cases an area with a tree strike score of 5-6 is identified as "the area of impact identified, CH in place preferred." The high surrounding tree strike is shown in Figure PG&E-8.2.1-2 and in Figure DPM&E-23-05-06A of PG&E's 2026-2028 Base WMP.</p> <p>Is a high tree strike potential identified, our preferred approach is to underground at that location, provided that it meets the Cost-Benefit Ratio (CBR) and Net Benefit criteria as described in Section 8.2, Figure PG&E-8.2.1-2, of the WMP. However, if undergrounding is not feasible or does not satisfy the CBR and/or Net Benefit requirements, we will collaborate with PG&E's vegetation management team to determine whether covered conductor (CC) and associated vegetation removal is an acceptable alternative.</p> <p>i. Ingress and egress routes are evaluated by a PG&E Public Safety Specialist, whose guidance ensures our underground design supports safe and efficient movement for citizens and first responders during an emergency.</p> <p>As noted in "WMP-Discovery2026-2028_DR_TURN-002_0010.pdf", the PSS considers many factors when evaluating ingress and egress concerns, and it is not possible to identify each and every criterion and how that criterion particularly impacts risk in every situation. The specific facts and circumstances of each situation must be considered on a case-by-case basis. The specific facts and circumstances of a case, when taken together, form our understanding of the real time risk associated with a particular area. Some of the factors considered include, but are not limited to:</p> <ul style="list-style-type: none"> Population density Time of day (there are differences between evacuating communities at night when most people are at home compared to during the day when fewer people are at home) Amount of time the public would need to evacuate or shelter in place Notifications and information made available to the public Road infrastructure (e.g., road size, number of lanes, type of surface, destination) Population density Time of day (there are differences between evacuating communities at night when most people are at home compared to during the day when fewer people are at home) Amount of time the public would need to evacuate or shelter in place Notifications and information made available to the public Road infrastructure (e.g., road size, number of lanes, type of surface, destination) Weather conditions (e.g., wet top decks including high temperatures, high winds, low relative humidity) Topography/terrain (the evacuation route place increases in danger due to steep slopes, drainages, and channels along a corridor which are often associated with extreme fire behavior) Human factors (e.g., elderly, special needs, evacuating large and small pets, knowledge or experience of drivers living in high fire hazard areas) Location of overhead electrical assets (e.g., poles proximal to the road's shoulder and conductor crossing over these ingress/egress thoroughfares should they become impacted by fire and fall onto the evacuation corridor) Faulting/ingress (e.g., number, type, size of equipment, staging areas, etc.) 	A Mirela Fall-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/app/Docs/Outlets/and-safety/turn-projects/turn-004-us-2026-2028-TURN_004-us	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
212	TURN	004	TURN_004	6	No	TURN_004_06	<p>Regarding PG&E's System Hardening Project Process Decision Tree and Process Figures 8.2.1-1, 8.2.1-2, and 8.2.1-3 on pages 183-184:</p> <p>a. Does PG&E utilize project-specific and costs for CC and CC as opposed to generic averages? Please explain.</p>	<p>i. Ingress and egress routes are evaluated by a PG&E Public Safety Specialist, whose guidance ensures our underground design supports safe and efficient movement for citizens and first responders during an emergency.</p> <p>As noted in "WMP-Discovery2026-2028_DR_TURN-002_0010.pdf", the PSS considers many factors when evaluating ingress and egress concerns, and it is not possible to identify each and every criterion and how that criterion particularly impacts risk in every situation. The specific facts and circumstances of each situation must be considered on a case-by-case basis. The specific facts and circumstances of a case, when taken together, form our understanding of the real time risk associated with a particular area. Some of the factors considered include, but are not limited to:</p> <ul style="list-style-type: none"> Population density Time of day (there are differences between evacuating communities at night when most people are at home compared to during the day when fewer people are at home) Amount of time the public would need to evacuate or shelter in place Notifications and information made available to the public Road infrastructure (e.g., road size, number of lanes, type of surface, destination) Population density Time of day (there are differences between evacuating communities at night when most people are at home compared to during the day when fewer people are at home) Amount of time the public would need to evacuate or shelter in place Notifications and information made available to the public Road infrastructure (e.g., road size, number of lanes, type of surface, destination) Weather conditions (e.g., wet top decks including high temperatures, high winds, low relative humidity) Topography/terrain (the evacuation route place increases in danger due to steep slopes, drainages, and channels along a corridor which are often associated with extreme fire behavior) Human factors (e.g., elderly, special needs, evacuating large and small pets, knowledge or experience of drivers living in high fire hazard areas) Location of overhead electrical assets (e.g., poles proximal to the road's shoulder and conductor crossing over these ingress/egress thoroughfares should they become impacted by fire and fall onto the evacuation corridor) Faulting/ingress (e.g., number, type, size of equipment, staging areas, etc.) 	A Mirela Fall-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/app/Docs/Outlets/and-safety/turn-projects/turn-004-us-2026-2028-TURN_004-us	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
213	TURN	004	TURN_004	7	No	TURN_004_07	<p>Regarding Table 8.2.1-2 on page 180, please explain whether mitigation effectiveness is calculated based on SME judgment. In each case where SME judgment is used, please explain why PG&E does not utilize alternative methods to calculate mitigation effectiveness.</p>	<p>All effectiveness ratings in Table 8.2.1-2 are calculated based on SME review. These ratings are used in conjunction with available outage data (as a proxy for options) to estimate mitigation effectiveness.</p> <p>The SME-based approach allows PG&E to calculate a realistic effectiveness estimate based on limited mitigation-specific outage data. Relying entirely on a data-based approach to calculate effectiveness for these mitigations would not yield meaningful results. For example, as detailed in "WMP-Discovery2026-2028_DR_TURN-004-0004.pdf" and "WMP-Discovery2026-2028_DR_TURN-004-0005.pdf", observed outage data is quite limited for rural system hardening mitigations. Only three reportable outages have been observed on covered conductors since its limited application began around 2015. Much of PG&E's covered conductor installation has also been in wildfire-related areas (in burned/scarred areas with limited vegetation growth) or proximal to areas of low tree strike risk in alignment with PG&E's decision tree. Furthermore, limited degradation of these assets has occurred over time. Therefore, limited observed effectiveness estimates. For all of these reasons, it is necessary to rely on SME input to inform these effectiveness ratings.</p> <p>Another potential issue with purely data-driven calculation methods, is the overlap between mitigations deployed simultaneously. For example, EPDS and covered conductor can be complementary mitigations, but using only observed data, it is difficult to measure their effectiveness contributions, or even identify a statistically valid data sample where these mitigations were concurrently operational. The SME-based analysis allows PG&E's experts to apply their knowledge and experience to assess these scenarios despite the limited deployment of these mitigations.</p> <p>WMP-Discovery2026-2028_DR_TURN_004-0007 Page 2</p> <p>Finally, the actual application of the effectiveness values referenced in Table 8.2.1-2 is much more detailed than depicted in the sample table. Specifically, data-and-effectiveness values are applied to the unique risk drivers of WCRMA, which themselves are derived from data-driven observations and events in PG&E's system of record. This allows PG&E to calculate specific mitigation effectiveness values for each individual circuit segment and ultimately yields a hybrid, SME-informed, data-driven result.</p>	A Mirela Fall-Fry	5/1/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/app/Docs/Outlets/and-safety/turn-projects/turn-004-us-2026-2028-TURN_004-us	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
214	TURN	004	TURN_004	8	No	TURN_004_08	<p>Regarding Table 8.2.1-5 on page 185:</p> <p>a. Please provide this table in Excel with supporting calculations.</p> <p>b. Please add the following information to the Excel table and include all data, calculations, and assumptions:</p> <p>i. Annual and cumulative number of overhead miles in each year from 2023 (recovered) to 2028 (forecast) for each activity segment (covered conductor and undergrounding).</p> <p>ii. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2028 (including forecast years).</p> <p>iii. Annual and cumulative costs from all other primary wildfire mitigations from 2023-2028 (including forecast years).</p> <p>iv. Annual and cumulative costs to implement EPDS and PPS in each year (separately) from 2023-2028 (including forecast years), if not previously included.</p>	<p>A. Please see "WMP-Discovery2026-2028_DR_TURN_004-0008a-b-c-d-e" at the tab titled "Table 8.2.1-5" for a version of Table 8.2.1-5 in Excel format. Please see "WMP-Discovery2026-2028_DR_TURN_004-0008a-b-c-d-e" at the tab titled "Supporting Data" for the risk reduction data upon which Table 8.2.1-5 is based. Please note that, for clarity, PG&E has removed circuit segments with no listed risk reduction from the "Supporting Data" tab. The risk reduction values provided in Table 8.2.1-5 are sums of the segment-level risk reduction values provided. Please note that the calculations underlying each segment-level risk reduction value are:</p> <ul style="list-style-type: none"> High tree strike potential, including an assessment of the current quantitative data provided by the vegetation management team Ingress/egress concerns and major historical fire data identified by the Public Safety Specialist (PSS) Construction management feasibility assessment, which accounts for local geology, including presence of wet rock, steep terrain, and water crossings Environmental considerations, such as sensitive habitats Cultural or historical considerations, such as tribal lands Community/owner impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and permitting challenges Public Safety Power Shutoff (PSPS) history in the area, assessed by reviewing the PSPS program data. The program data shows the areas identified for each PSPS event and the leadback period that identifies which of the overhead assets will have required deenergization. PG&E's list of local factors was developed by participants in the cross-functional Working Group who leverage their historical knowledge and local requirements. These participants offer feedback informed by their engagement with key stakeholders, such as agencies, cities, counties, tribes, and local communities. To ensure alignment with relevant local regulations and address local needs, this collective input helped shape the list, ensuring PG&E effectively addresses local considerations when selecting mitigations. No additional factors were considered but removed from the list. These local factors can inform PG&E's mitigation selection at two key stages leading up to and during the mitigating process: <p>1. When PG&E completes its Initial Cost-Benefit Analysis (Figure 8.2.1-2), and a Circuit Protection Zone (CPZ) does not meet the Cost-Benefit Ratio (CBR) and Net-Benefit requirements for an</p>	A Mirela Fall-Fry	5/1/2025	5/12/2025	5/12/2025	https://www.pge.com/assets/app/Docs/Outlets/and-safety/turn-projects/turn-004-us-2026-2028-TURN_004-us	1	No	8	Grid Design, Operations, and Maintenance	8.2.1
198	SPO	004	SPO_004	34	No	SPO_004_004	<p>On page 125 in the 2026-2028 Base WMP, PG&E explains that when selecting a mitigation it considers relevant local factors on a case-by-case basis.</p> <p>a. Provide a list of local factors that PG&E considers when selecting a mitigation.</p> <p>b. Describe how the list of local factors was established by PG&E.</p> <p>c. Were any other factors considered in this process but removed from the final list? If so, explain why.</p> <p>d. Describe how each of these local factors can inform mitigation selection.</p> <p>e. Describe how each of these local factors are integrated into the decision tree flow in Figure PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2026-2028 Base WMP.</p> <p>f. Which of the steps in the decision-tree reviews these local factors? How is that performed?</p>	<p>4. "When a mitigation assessment is conducted for the "local factors" registration form, the response for the "selected" tree are considered for the circuit segment. PG&E defines local factors (factors that are unique to that project location) to be the same as the qualitative factors described in response to WMP 2026-2028 SPO_004_001_Q01 (with the exception the PSPS factors, which is a quantitative measurement and included below). The primary local factors considered when selecting a mitigation include items listed below. Although the list provided below attempts to thoroughly list both common local factors that PG&E considers when selecting a mitigation, it may not be an exhaustive list.</p> <ul style="list-style-type: none"> High tree strike potential, including an assessment of the current quantitative data provided by the vegetation management team Ingress/egress concerns and major historical fire data identified by the Public Safety Specialist (PSS) Construction management feasibility assessment, which accounts for local geology, including presence of wet rock, steep terrain, and water crossings Environmental considerations, such as sensitive habitats Cultural or historical considerations, such as tribal lands Community/owner impacts, such as significant construction in a neighborhood by PG&E or another utility, or land rights and permitting challenges Public Safety Power Shutoff (PSPS) history in the area, assessed by reviewing the PSPS program data. The program data shows the areas identified for each PSPS event and the leadback period that identifies which of the overhead assets will have required deenergization. PG&E's list of local factors was developed by participants in the cross-functional Working Group who leverage their historical knowledge and local requirements. These participants offer feedback informed by their engagement with key stakeholders, such as agencies, cities, counties, tribes, and local communities. To ensure alignment with relevant local regulations and address local needs, this collective input helped shape the list, ensuring PG&E effectively addresses local considerations when selecting mitigations. No additional factors were considered but removed from the list. These local factors can inform PG&E's mitigation selection at two key stages leading up to and during the mitigating process: <p>1. When PG&E completes its Initial Cost-Benefit Analysis (Figure 8.2.1-2), and a Circuit Protection Zone (CPZ) does not meet the Cost-Benefit Ratio (CBR) and Net-Benefit requirements for an</p>	Edie Schwett	4/30/2025	5/1/2025	5/21/2025	https://www.pge.com/assets/app/Docs/Outlets/and-safety/turn-projects/turn-004-us-2026-2028-SPO_004-us	0	No	6	Wildfire Mitigation Strategy Development	6.1.3

222	MGRA	006	MGRA_006	4	No	MGRA_006_04	<p>With regard to WFC v4 Table 9</p> <p>a. Table 9 presents an abridged summary of the model regression results. Please provide the full model regression results.</p> <p>b. P-value is shown to be 0 (or less than 0.0005) in Table 9. What is the meaning of this P-value? Does this imply a perfect fit?</p> <p>c. In the regression, how many variables were used to fit how many bits of data?</p> <p>d. Please also provide the validation that was done to quantify the explanatory value of TDI and other variables</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
223	MGRA	006	MGRA_006	5	No	MGRA_006_05	<p>In Section 4.1.2.1 PG&E's model assets that</p> <p>The literature on structure loss is highly extensive and lists a number of factors that influence structure loss. These include housing materials, age of neighborhood, density of neighborhood and separation of houses, proximity of vegetation to the structure, enclosed area and vents, and others.</p> <p>a. How does PG&E's structure loss model incorporate other variables that are implicit to the structure, maintained landscapes, and neighborhood?</p> <p>b. Please provide the numerical values that were fit in Figures 9 and 10.</p> <p>c. Figure 10 implies that for TDI+ that the probability of structure is very small (counts for loss < 0.3 >> loss > 0.3), and that for TDI+ probability of structure loss is very large (counts 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 probability of firefighting resources? If so, what justification (analysis or citations) does it provide for this assertion?</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
223	MGRA	006	MGRA_006	5(x)	Yes	MGRA_006_05(x)	<p>In Section 4.1.2.1 PG&E's model assets that</p> <p>The literature on structure loss is highly extensive and lists a number of factors that influence structure loss. These include housing materials, age of neighborhood, density of neighborhood and separation of houses, proximity of vegetation to the structure, enclosed area and vents, and others.</p> <p>a. How does PG&E's structure loss model incorporate other variables that are implicit to the structure, maintained landscapes, and neighborhood?</p> <p>b. Please provide the numerical values that were fit in Figures 9 and 10.</p> <p>c. Figure 10 implies that for TDI+ that the probability of structure is very small (counts for loss < 0.3 >> loss > 0.3), and that for TDI+ probability of structure loss is very large (counts 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 probability of firefighting resources? If so, what justification (analysis or citations) does it provide for this assertion?</p>	Joseph Mitchell	5/5/2025	5/14/2025	5/14/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
224	MGRA	006	MGRA_006	6	No	MGRA_006_06	<p>The analysis provided estimated TDI values for the Dose fire. Please provide a TDI for other major fires as well including:</p> <p>a. Eaton (2025)</p> <p>b. Pullman (2025)</p> <p>c. Lathrop (2025)</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
225	MGRA	006	MGRA_006	7	No	MGRA_006_07	<p>Was PG&E's regression model developed internally or by a third party vendor, and if the latter which vendor?</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
226	MGRA	006	MGRA_006	8	No	MGRA_006_08	<p>With regard to Table 12</p> <p>a. Please provide the full model regression results.</p> <p>b. P-value is shown to be 0 (or less than 0.0005) in Table 12. What is the meaning of this P-value? Does this imply a perfect fit?</p> <p>c. In the regression, how many variables were used to fit how many bits of data?</p> <p>d. Please also provide the validation that was done to quantify the explanatory value of ARI and other variables</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
227	MGRA	006	MGRA_006	9	No	MGRA_006_09	<p>In Section 4.2.3 PG&E advances the hypothesis that ARI fraction is a predictor of fatalities, using the Camp fire as an example with high fatalities.</p> <p>a. Figure 12 shows an age distribution for the Camp fire fatalities. Please provide an equivalent age distribution graph for the 50,000 people who evacuated from the Camp fire.</p>	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-MGRA_006.pdf	0	No	5	Risk Methodology & Assessment	5.4
228	TURN	005	TURN_005	1	No	TURN_005_01	<p>Regarding PG&E's attachment "WMP-Discovery2026-2028_OR_TURN_005-000A001", Excel please add a column that provides the number of overhead miles for each project listed.</p>	A Mileke Fall-Fly	5/8/2025	5/13/2025	5/13/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-TURN_005.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
229	TURN	005	TURN_005	2	No	TURN_005_02	<p>Regarding TURN3 PG&E attachment "WMP-Discovery2026-2028_OR_TURN_005-000A001"</p> <p>a. Please provide a definition of each column header.</p> <p>b. What column represents the total risk score of each circuit segment?</p> <p>c. Does PG&E rank circuit segments for prioritization by highest risk by column "Y" — "SH-Wildfire Risk per P-Value Mile" — or something else?</p> <p>d. Does multiplying column "Y" by "P-Value Mile" (column A) equal the total risk score for each circuit segment? Please explain.</p>	A Mileke Fall-Fly	5/8/2025	5/13/2025	5/13/2025	https://www.gsa.gov/asset/gsa/docs/Outreach-and-Subcommittee-Responses-and-Support/2025-2026-TURN_005.pdf	0	No	5	Risk Methodology & Assessment	5.4

230	TURN	005	TURN_005	3	No	TURN_005_03	Regarding the decision tree in Figure PG&E 8.2-1-2 on page 184: a. On the tree, the label box, "Is the UG NB + CH NB?" does "CH NB" include EPSS? Please explain. b. Regarding the second row "Highly likely negative," what happens if an answer to one of the questions in a yellow box is "no"? Please explain. c. Regarding the answer row "Highly likely negative," what happens if the answer to all three questions in a yellow box is "no"? Please explain. d. Regarding a "Hybrid" project, is it possible for such a project to contain 90% undergrounding and 1% overhead hardening? Please explain.	a. Yes, the comparison is to CH hardening + EPSS. b. The assumed savings associated with PSPS and EPSS are included as appropriate in the benefit associated with the economic comparison between the UG or CH alternative. c. If the answer to one of the questions in a yellow box is "no", then CH hardening + EPSS is assumed to be an acceptable alternative for mitigation for these areas for that reason. d. If the answer to all three questions in a yellow box is "no", then CH hardening + EPSS would be the selected mitigation, and undergrounding would not be incorporated in the scope. e. Yes, it is possible, although unlikely, that a "Hybrid" project could be 90% undergrounding and 1% overhead hardening. In projects where undergrounding is WMP-Discovery 2026-2028, DR, TURN_005-0053 Page 2 the primary solution, there are often specific construction limitations that make it preferable to underground the entire location. Examples include locations where there are near line substations or other crossings prevent underground installation. In these cases, alternative solutions, such as bridge attachments or boring, may not be viable either.	A Mireks Risk-Fly	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/turnpage-wmp-discovery-and-support/2026-TURN_005.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
231	DEIS	009	DEIS_009	1	No	DEIS_009_01	Regarding 2026 Risk Reduction for Undergrounding and Overhead Construction: Table 8-1 of PG&E's 2026-2028 Base WMP includes risk reduction percentages for 2026 based on its current risk models WDRM v4 and WTRM v2. Given that the year 2026 is part of its current General Risk Case Decision, Energy Safety cannot currently compare its risk reduction as calculated by WDRM v4 and WTRM v1. a. Provide the percentage risk reductions planned for 2026 for the following activities based on WDRM v3 and WTRM v1: i. System Hardening - Undergrounding (GH4-1) ii. System Hardening - Transmission Short Splices (GH-08) iii. System Hardening - Transmission Distribution Segment Replacement (GH-11) iv. Overhead Hardening and Line Removal - Distribution (GH-12)	a. i. The v3 risk reduction and risk rank values for the 2026 System Hardening - Undergrounding (GH-04) activities have been provided in response to data request WMP-Discovery2026-2028, DR, TURN_003-0001 and associated alternative WMP-Discovery2026-2028, DR, TURN_003-0010A20CONF-also. Please reference worksheet GH-04 Worksheet 2026-28. See column V (End Year) for 2026, and see column P (Risk Rank (V3)). ii. The response and associated disbenefit have been attached to this response as WMP-Discovery2026-2028, DR, DEIS_009-0001A20CONF-also. iii. Please note that transmission short splices are not part of the General Risk Case Decision. Cost recovery for short splices occurs through the FERC Transmission Cost Recovery Plan. iv. PG&E will supplement this response to provide this information by May 23, 2025. b. The risk reduction and risk rank values for the 2026 Overhead Hardening and Line Removal - Distribution (GH-12) activities have been provided in response to data request WMP-Discovery2026-2028, DR, TURN_003-0001 and associated alternative WMP-Discovery2026-2028, DR, TURN_003-0010A20CONF-also. Please reference worksheet GH-12 Worksheet 2026-28. See column V (End Year) for 2026, and see column P (Risk Rank (V3)). ii. The response and associated disbenefit have been attached to this response as WMP-Discovery2026-2028, DR, DEIS_009-0001A20CONF-also.	Nathan Poon	5/9/2025	5/16/2025	5/16/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/turnpage-wmp-discovery-and-support/2026-DEIS_009.xls	1	No	5	Risk Methodology & Assessment	5.4
199	SFO	004	SFO_004	35	No	SFO_004_035	On page 132 in the 2026-2028 Base WMP, PG&E states that it looks at its "highest risk circuit segments" to determine where to target the work included in the WMP. a. Within these "highest risk circuit segments," what aspects does PG&E consider in order to determine the timing of implementing mitigation on these "highest risk circuit segments"? b. Does PG&E consider the LURE and CURE values of these circuit segments when determining the timing of implementing mitigation on these "highest risk circuit segments"? If so, how? If not, why not?	a. PG&E is providing a response to the question for system hardening and undergrounding. PG&E selects system hardening and undergrounding based on the risk model's ranking of the highest risk circuit segments. Other WMP programs reference the risk model but focus on addressing the location where the specific risk is present. b. Circuit segments are selected for scoping from 14 based on giffon risk rank. Certain circuit segments may be excluded if, for example, they are already hardened, are privately owned, are very short, or are already in a substation. PG&E generally prioritizes owners of projects in the same order that scoping is completed. Once a project has completed scoping and other pre-construction activities (e.g. design, engineering and permitting) are complete, PG&E will begin construction as soon as practicable. While our approach is to begin hardening as soon as practicable after scoping is complete, there are limiting factors identified through the designating and permitting process that impact when a project can be implemented, such as: i. Construction management feasibility which accounts for local geology, including presence of hard rock, which may limit construction. ii. Cultural or historical considerations including sensitive habitats. iii. Environmental considerations including sensitive habitats. iv. Customer/community impacts, such as significant construction in a neighborhood by PG&E or another utility, land rights and/or permitting challenges. When it seems like a project may be delayed, PG&E also works to improve timing (complete mitigation more quickly) by sequencing projects into multiple phases and/or sub-phases, and limiting the timing constraints to smaller sections of work. i. No, LURE and CURE values are not considered independently when planning for the sequencing and timing of projects or sub-projects. While both likelihood and consequence are important components of risk, that product (i.e., risk) is the primary factor when prioritizing mitigation. More specifically, PG&E uses the density of risk, such as risk per mile, to rank circuit segments 1-14. PG&E then prioritizes projects for execution in ascending risk rank order based on the model used at the time of selection, while considering the operational limitations noted in response to part a above.	Edie Schwelt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/sfopage-wmp-discovery-and-support/2026-SFO_004.xls	0	No	5	Risk Methodology & Assessment	5.3.2
232	GR	001	GR_001	1	No	GR_001_01	1.1) Please provide documentation detailing the MAVF applied in the WFC model, including the output for how "no-linear, risk adjustment increases the consequences of more extreme events," as referenced in the wildfire-consequence-model-documentation-v4.pdf (p. 8). 1.2) In regard to wildfire-consequence-model-documentation-v4.pdf, please clarify whether the reported "MAVF" values (e.g. p. 18, Table 8) and "consequence" values using the MAVF function (e.g. p. 28) are reported to standard units (e.g. 1 = 1 scenario injury) or cost normalized units (e.g. the rate of \$1M per risk-adjusted 2022 dollars per unit of MAVF" (e.g. 3.125 = 1 scenario injury\$5.125M \$1M).	a. For the requested information, please refer to PG&E's 2024 RAMP Report (https://www.pge.com/assets/reg/docs/outlets_and_safety/ramp-application-pge051204.pdf), Chapter 2, Section C. Cost-Benefit Approach, starting from page 2-3. MAVF in WFC is used earlier version of the PG&E's 2024 RAMP CBA, with slight differences in the normalized value of safety and reliability. The worksheet structure is described in pages 2-19 through 2-27 of the RAMP Report. b. MAVF values are in millions risk-adjusted 2023 dollars.	Zoe Herald	5/9/2025	5/14/2025	5/14/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/grpage-wmp-discovery-and-support/2026-GR_001.xls	0	No	5	Risk Methodology & Assessment	5.4
233	GPI	001	GPI_001	2	No	GPI_001_02	WFC model questions: (2.1) In O&EIR, 001, 004, O&EIR asked (a.8) "How many 'worst weather days' are included within the set used for WFC?" PG&E includes 071 worst weather days from March 2003 to Dec 2020. Of the total 071 worst weather days modeled with 24-h Technysys fire spread simulations, how many simulations are included in the quantification of each CURE piece? If a subset of the 071 worst weather day simulations are applied in the WFC for each CURE piece, what is the basis for selecting whether a Technysys worst weather day 24-h simulation is used as a WFC input to calculate CURE for a given piece? (2.2) Confirm that the only outputs from 24-h Technysys fire spread simulations input into the WFC to determine granular CURE values are Flame Length and Rate of Spread. If other fire spread simulation outputs (e.g. acreage, buildings destroyed, etc.) are included in any aspect of the WFC and final CURE values, please list them and describe the methods used. (2.3) It is our understanding that PG&E previously calibrated Technysys simulation Flame Length and Rate of Spread "Default Values" (provided based on 0-4 simulations (PG&E 2023-2025 WMP RS, p. 178)). Does PG&E apply the relationship between 24-h Technysys simulation Flame Length and Rate of Spread and its revised "Predicted Destructive Potential" limited fire classifications? If so, provide the calibration results. (2.4) PG&E validates its use of 24-h versus 0-4 Technysys simulations based on the comparison between simulated historical fire versus actual area burned (wildfire-consequence-model-documentation-v4.pdf, p. 13). Do PG&E complete a similar assessment for simulated historical fire versus actual buildings destroyed? If so, please provide the results. Does PG&E apply the simulated area burned from 24-h Technysys simulations in any of its risk quantification results? (2.5) FFR outputs are an input to the WFC Model. FFR data is sourced from Technysys and is reported as being updated annually (PG&E 2026-2028 WMP vol. 1, p. 470). Please clarify if 24-h fire data is used as an input to the WFC model. If not, what FFR values that are input into the WFC for the 11 fire seasons covering 2012 through 2022 (wildfire-consequence-model-documentation-v4.pdf, p. 30)? If not, what is the fire data used in the fire data (vintage) used in the FFR forecast for the WFC model?	a. Pre-fire fuels layers were used as input to generate the backdrop of the FFR (delineation). Specifically, a pre-fire fuels snapshot was created for years 2012-2020. A spring 2021 snapshot was used for 2001, and a spring 2022 snapshot for 2022. Pre-fire fuels layers represent the state of the fuels before being changed by wildfire.	Zoe Herald	5/9/2025	5/14/2025	5/14/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/gripage-wmp-discovery-and-support/2026-GPI_001.xls	0	No	5	Risk Methodology & Assessment	5.4
203	SFO	004	SFO_004	39(x)	Yes	SFO_004_39(x)	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity-Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost Benefit Ratios. a. Provide the Cost-Benefit Ratio for each of these activities as is required by 02-22-0-027. b. If these calculations of CBR vary from what was submitted in PG&E's 2024 RAMP Application, explain how much they vary and why. c. Complete Table 6-3 for all activities listed in this WMP. Add the Initiative Activity Tracking (IAT) as a column in the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.	a. This table has been updated to include the two transmission programs (conductor segment replacement and short splice installation) cost benefit scores. Additionally, the PSPS and EPSS CBR were updated as an error was noted in the original submission. WMP activity name Cost-Benefit Score - Overall Risk (2026-2028) Cost-Benefit Score - Wildfire Risk (2026-2028) Cost-Benefit Score - Outage Program Risk (2026-2028) PSPS (2027-2030 CBR) 25.3 41.5 16.2 EPSS (2027-2030 CBR) 33.8 38.1 4.3 38.1 28.36 28.36 2.07 Transmission - Conductor Segment Replacement 5.43 3.63 1.5	Edie Schwelt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/sfopage-wmp-discovery-and-support/2026-SFO_004.xls	0	No	6	Wildfire Mitigation Strategy Development	6
254	MORA	007	MORA_007	1	No	MORA_007_01	Please provide a shapefile or geodatabase containing the Fire Index Area (FIA) used for PG&E's analysis.	Please see "WMP-Discovery2026-2028, DR, MORA_007-0001A20CONF-also" for the shapefiles containing the Fire Index Area (FIA) used for PG&E's analysis, explained in its response to WMP-Discovery2026-2028, DR, MORA_005-0005.pdf.	Joseph Mitchell	5/13/2025	5/14/2025	5/14/2025	https://www.pge.com/assets/reg/docs/outlets_and_safety/morapage-wmp-discovery-and-support/2026-MORA_007.xls	1	No	10	Situational Awareness and Forecasting	10.6

245	SFO	006	SFO_006	3	No	SFO_006_03	<p>In PG&E's 2026 Annual WMP Template Worksheet submitted to Energy Safety on April 30, 2025, in column L of Table 11, PG&E listed "2022 WMP," "2023 WMP" and "refer to 8.4" as the most recent proceeding to review this project.</p> <p>a. Explain what these three responses mean.</p> <p>b. Where the costs of the initiatives reviewed in each of these responses.</p> <p>c. If a, provide evidence of the review of the costs for this initiative.</p> <p>d. If not, explain where the costs for these initiatives have been reviewed. If the costs for these initiatives have not been reviewed, explain why.</p>	Edie Schwitt	5/19/2025	5/28/2025	5/28/2025	https://www.pge.com/assets/pge/docs/outages-and-safety/wmp-prep-and-support-2026-2028-SFO_006.zip	No	3	Overview of WMP	3.6
246	SFO	006	SFO_006	4	No	SFO_006_04	<p>In its response to SFO-004 Question 27b PG&E states "Cost-related feasibility factors are incorporated into cost assumptions as a quantifiable cost modifier, which are then included in the estimated unit cost of the proposed construction."</p> <p>a. Provide the quantifiable cost modifier for each of the seven "primary examples of feasibility constraints" listed in Question 27.</p> <p>b. Explain how PG&E determined the value for each of the quantifiable cost modifiers listed in Question 27.</p>	Edie Schwitt	5/19/2025	6/2/2025		No	8	Grid Design, Operations, and Maintenance	8.2.1	
246	SFO	006	SFO_006	5	No	SFO_006_05	<p>In a meeting on May 9th to discuss the Wildlife Benefit Cost Analysis (WBCA) Tool, SFO understood from PG&E that a limited number of circuit segments had been evaluated according to the System Planning Project Scoping Decision Tree and Process found in Figure PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2026-2028 Base WMP. Per page 152 of the 2026-2028 WMP SFO understands that the decision tree will inform mitigation selection beginning in 2027.</p> <p>a. Provide the total number of circuit segments where PG&E has already applied the decision tree for mitigation work in 2027 and 2028.</p> <p>b. Provide the total number of circuit segments where PG&E intends to apply the decision tree for work done in 2027 and 2028.</p>	Edie Schwitt	5/19/2025	6/2/2025		No	3	Overview of WMP	3.6	
247	SFO	006	SFO_006	6	No	SFO_006_06	<p>In a meeting on May 9th to discuss the Wildlife Benefit Cost Analysis (WBCA) Tool, PG&E informed SFO that the baseline value of risk used to calculate CBR is different in the 2024 RAMP and the WBCA Tool.</p> <p>a. Provide a detailed step by step explanation of how CBR is calculated for the 2024 RAMP and WBCA Tool. This should include an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an example with a table that is similar to Table PG&E-8.2.1-2 in the 2026-2028 Base WMP but that includes an 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243	SFO	006	SFO_006	1/62	Yes	<p>The following questions were submitted to PG&E's final response to SFO's PGE WMP 2023-2025 submission in a in the 2024 RAMP Traverse. PG&E has listed 630 circuit segments as "N/A". Provide an Excel workbook that lists the VORM v.4 Circuit Segment Name for each of the 630 circuit segments in the first column. The second column should explain why this circuit segment was listed as N/A, such as this circuit segment was split from a larger circuit segment in VORM v.3 due to the addition of a substation. The third column should list the name of the previous circuit segment as it was used in VORM v.3 and presented in PGE_2023_WMP_R0_Section_042_Aln001.xlsx. If this is a newly constructed circuit segment, the response in the third column must be "New".</p> <p>2024-2025 Base WMP VORM v.4 Circuit Segment Name</p> <p>Explanation for N/A</p> <p>2024 RAMP VORM v.3 Circuit Segment Name</p> <p>CAMP EVERE 219873712</p> <p>15. Explain why PG&E in its 2023-2025 Base WMP did not include a file similar to PGE_2023_WMP_R0_Section_042_Aln001.xlsx in its submission.</p> <p>16. For each mitigation listed below, explain why it is now impossible for PG&E to utilize the mitigation by circuit mile (as it was in PGE_2023_WMP_R0_Section_042_Aln001.xlsx)</p> <p>(a) Erection Pole Replacement</p> <p>(b) Surge Arrestor Replacement</p> <p>(c) Aerial Inspection</p> <p>(d) Ground Inspection</p> <p>(e) Hot-Pole Bunking</p> <p>(f) Tree Removal</p> <p>(g) Over Conductor Detection (OCD)</p> <p>(h) Line Sensors</p> <p>(i) Pole Bunking</p> <p>(j) Pole Clearing</p> <p>17. For each mitigation listed above, explain why PG&E was able to complete the corresponding "% of Segment" field in the TopRisk Table Worksheet of PGE_2023_WMP_R0_Section_042_Aln001.xlsx.</p> <p>18. For the years 2023-2025, PG&E states that it is unable to determine actual expenditure and present value cost of specific work done on a circuit segment for each of the mitigations listed in Question 15.i. But PG&E can provide the average cost to complete one unit of the mitigation program. For each of the mitigations listed in Question 15.i., provide an explanation for why PG&E is unable to determine the actual expenditure and present value cost of specific work done on a circuit segment.</p>	Edie Schwitt	5/19/2025	6/5/2025			No	5	Risk Methodology & Assessment	5.5.2
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