

23	OEIS	001	OEIS_001	13	No	OEIS_001_01	<p>Regarding Wood and Slash Management Tracking In response to OEIS-001_01, PG&E states "Debris management is completed in coordination with tree work across PG&E's service area... Wood management that is conducted in response to a customer request is typically completed within 90 days of tree work completion across PG&E's service area, unless affected by weather or other circumstances." (p. 381)</p> <p>i. If yes: A. Describe the documentation and record keeping methods used. B. How PG&E plans to integrate wood and slash debris management tracking into internal procedures similar to tracking the completion of other VM tasks.</p>	<p>a. No, PG&E does not track the management of slash and woody debris, vegetative material less than 4 inches in diameter. i. No ii. WMP-Discovery 2020-2028 DR_OEIS_001-Q03 Page 2</p> <p>b. See below: i. Specific language in the Utility Standard, TD-7116S or the Utility Procedure, TD-7116P-01 requiring vegetation management (VM) Tree Trimming and Brush Removal. When tree work is logged as completed, the VM crew is required to log the removal of slash and debris, and then complete the associated debris treatment. This specific language is contained in the contract language from Exhibit J, Page 67 of the "Specific Conditions No. 5404" in Vegetation Management.</p> <p>B. PG&E has no plans to integrate wood and slash debris management tracking into internal procedures similar to tracking the completion of other VM tasks.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	9	Vegetation Management & Inspections	9.5	
24	OEIS	001	OEIS_001	14	No	OEIS_001_01	<p>Regarding Wood and Slash Management Impacts on Wildlife Risk In response to OEIS-001_01, PG&E states "An updated Wood Management Procedure requires an updated Wood Management Procedure that reflects the latest information available to PG&E's vegetation management activities is considered in Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01." (p. 380)</p> <p>i. If yes: A. Explain how PG&E's wood and slash management is completed in all VM treatment areas according to the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01. B. How PG&E plans to integrate wood and slash debris management tracking into internal procedures similar to tracking the completion of other VM tasks.</p>	<p>a. The utility vegetation management industry is increasingly concerned about wood remaining from tree clearing activities. In response to these concerns, we are aligning with industry practices which include wood management offerings to all customers and land managers upon request, when a defined wood management procedure is developed. This specific language is contained in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>b. PG&E's updated wood management offerings as described above, our Wood Management Procedure aligns with defined space requirements and specific language in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>c. Clarify and industry practices PG&E is referring to.</p> <p>d. Explain how PG&E's wood and slash debris management activities is considered in Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	9	Vegetation Management & Inspections	9.5	
25	OEIS	001	OEIS_001	15	No	OEIS_001_01	<p>Regarding Wood and Slash Management Benchmarking In response to PG&E-23B-16, Updating Wood Management Procedure, PG&E states that benchmarking meetings with SCE and SDG&E to discuss wood management began in 2022 (p. 583) and benchmarking is intended to be completed by 2025 (p. 583). PG&E states that the new Wood Management Standard and Procedure, "allow a company to benchmark its wood management practices against other companies in the industry." (p. 583) The common ground of PG&E's wood management policy are expected to include: a. Specific language in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01. b. Clarify why PG&E's wood management policy the required progress defined in the area for continued improvement (p. 587) c. Explain why PG&E plans for the benchmarking effort space and time frame (p. 587) d. Clarify what specific outcomes from the benchmarking effort and how these outcomes relate to specific industry best practices (p. 587) e. Compare PG&E's past wood management procedure (prior to benchmarking) to the updated wood management procedure and describe how the update to the procedure meet the required progress of PG&E-23B-16.</p>	<p>a. The utility vegetation management industry is increasingly concerned about wood remaining from tree clearing activities. In response to these concerns, we are aligning with industry practices which include wood management offerings to all customers and land managers upon request, when a defined wood management procedure is developed. This specific language is contained in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>b. In addition to expanding wood management offerings as described above, our Wood Management Procedure aligns with defined space requirements and specific language in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>c. Clarify and industry practices PG&E is referring to.</p> <p>d. Describe specific outcomes from the benchmarking effort and how these outcomes relate to specific industry best practices (p. 587)</p> <p>e. Compare PG&E's past wood management procedure (prior to benchmarking) to the updated wood management procedure and describe how the update to the procedure meet the required progress of PG&E-23B-16.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	9	Vegetation Management & Inspections	9.5	
26	OEIS	001	OEIS_001	16	No	OEIS_001_01	<p>Regarding Integrated Vegetation Management Reseeding and Treatment Timing In response to OEIS-001_01, PG&E states "PG&E's reseeding and treatment timing processes are assessed every 2-5 years" (p. 388). The 2028-2028 WMP does not describe the need for reseeding of transmision ROWs is determined. In contrast, PG&E's 2023-2025 WMP provided overall targets for reseeding of vegetation, including "Reseeding and treatment timing processes are assessed on a 2-5 year cycle and clarify what factors (e.g. species, growth rate, percent cover, height) were used to define this timeline."</p> <p>In addition to transmision ROWs, PG&E will use to determine the need for reseeding of vegetation in transmision ROWs during the 2028-2028 WMP cycle.</p>	<p>a. The utility vegetation management industry is increasingly concerned about wood remaining from tree clearing activities. In response to these concerns, we are aligning with industry practices which include wood management offerings to all customers and land managers upon request, when a defined wood management procedure is developed. This specific language is contained in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>b. In addition to expanding wood management offerings as described above, our Wood Management Procedure aligns with defined space requirements and specific language in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>c. Clarify and industry practices PG&E is referring to.</p> <p>d. Describe specific outcomes from the benchmarking effort and how these outcomes relate to specific industry best practices (p. 587)</p> <p>e. Compare PG&E's past wood management procedure (prior to benchmarking) to the updated wood management procedure and describe how the update to the procedure meet the required progress of PG&E-23B-16.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	9	Vegetation Management & Inspections	9.7.2	
27	OEIS	001	OEIS_001	17	No	OEIS_001_01	<p>Regarding Covered Conductor, Line Removal and Microdots In response to OEIS-001_01, PG&E states "PG&E's system Hardening GH-12" initiative includes specific language for the removal of overhead lines and microdots, specifically covered conductor installation and line removal, including remote grids." (p. 587)</p> <p>i. Provide separate targets for the following initiatives in the same table format as Table 8-1.</p>	<p>a. Covered Conductor b. Line Removal c. Microdots</p>	<p>a. The utility vegetation management industry is increasingly concerned about wood remaining from tree clearing activities. In response to these concerns, we are aligning with industry practices which include wood management offerings to all customers and land managers upon request, when a defined wood management procedure is developed. This specific language is contained in the Utility Standard, TD-7116S and Utility Procedure, TD-7116P-01.</p> <p>b. PG&E has three site termination lines totaling 2.25 miles in HFTD and HFRA. These lines are located in the HFTD and close to energized Distribution lines outside of HFTD and HFRA.</p> <p>c. N/A</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.1.2.9.8.2.7
28	OEIS	001	OEIS_001	18	No	OEIS_001_01	<p>Regarding site termination power lines a. How many circuit miles of site termination lines does PG&E have in the HFTD and HFRA?</p> <p>b. Do any of these site termination lines planned for removal in 2028 to 2029:</p> <p>i. Explain why removal is planned. ii. Explain if any of these lines could become energized through induction.</p>	<p>a. N/A</p> <p>b. N/A</p>	<p>a. PG&E plans to remove two of the three lines in 2025. The Red Line and the Blue Line. The Green Line will remain in place and evaluated for the optimal induction mitigation solution.</p> <p>b. One of the three lines will be sectioned off so it could be cut off from the main line. The other two lines will be removed and the removal of lines and is included in the the removal activity.</p> <p>c. How many previous years of HFTM maintenance have occurred on a line and how many previous years of HFRA maintenance have occurred on a line. Then typically recommended to occur within 1-3, 3-5, or 5-7 years depending on specific factors.</p> <p>d. Explain how PG&E plans to mitigate the risk of the line becoming energized through induction.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.2.1
29	OEIS	001	OEIS_001	19	No	OEIS_001_01	<p>Regarding CC and Undergrounding in Fire Rehabilitated Areas In response to OEIS-001_01, PG&E states "PG&E's CBR methodology used for fire rehabilitation areas is the same eye-on-risk as a detailed aerial inspection." (p. 587)</p> <p>i. If yes, provide details on how PG&E's CBR methodology used for fire rehabilitated areas is the same eye-on-risk as a detailed aerial inspection.</p>	<p>a. By a detailed aerial inspection vs. and serial scan inspection.</p> <p>b. If yes, discuss how PG&E determined an aerial scan achieves the same eye-on-risk as a detailed aerial inspection. (e.g. photographs, checklist, etc.)</p> <p>c. If no, provide the following calculations: i. Serial scan on risk of an aerial scan inspection on the same asset. ii. The eye-on-risk of an aerial scan inspection on an asset in an area of extreme consequence and severe wildfire risk. iii. The eye-on-risk of an aerial scan inspection on the same asset. iv. The eye-on-risk of an aerial scan inspection on an asset in an area of high consequence and high wildfire risk.</p>	<p>a. Yes, PG&E assumes that an aerial scan achieves the same eye-on-risk as a detailed aerial inspection.</p> <p>b. PG&E's CBR methodology used for fire rehabilitated areas is to identify various conditions requiring corrective actions. Some of the corrective actions must be taken immediately, while others can be delayed based on the observed condition and location in the HFTD, in accordance to GDR-1, Rule 18.</p> <p>c. PG&E's aerial scans are preceded with inspections to make to capture the ability of aerial detection equipment to detect the presence of vegetation. These inspections with Level 1 findings and urgent Level 2 findings, which correspond to PG&E's A, B, and X categories. If a finding is present, the aerial scan is stopped immediately for an A tag, within seven days for an X tag, and within six month time frame for a B tag. Since PG&E's aerial scans are X and Z conditions, it achieves the same eye-on-risk as a detailed ground truth inspection.</p> <p>d. Not applicable, please see the response to sub(a) above.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1.8.2.2
30	OEIS	001	OEIS_001	20	No	OEIS_001_02	<p>Regarding the CBR Calculation in Area for Contained Improvement PG&E-25U-04 In response to OEIS-001_02, PG&E states "PG&E's CBR methodology used for fire rehabilitation areas is the same eye-on-risk as a detailed aerial inspection." (p. 587)</p> <p>i. The discussion does not include how PG&E calculated the "eye-on-risk" achieved by a serial serial inspection vs. and aerial scan inspection.</p> <p>j. If yes, discuss how PG&E determined an aerial scan achieves the same eye-on-risk as a detailed aerial inspection.</p> <p>k. If no, provide the following calculations: i. Serial scan on risk of an aerial scan inspection on the same asset. ii. The eye-on-risk of an aerial scan inspection on an asset in an area of extreme consequence and severe wildfire risk. iii. The eye-on-risk of an aerial scan inspection on the same asset. iv. The eye-on-risk of an aerial scan inspection on an asset in an area of high consequence and high wildfire risk.</p>	<p>a. By a serial serial inspection vs. and aerial scan inspection.</p> <p>b. If yes, discuss how PG&E determined an aerial scan achieves the same eye-on-risk as a detailed aerial inspection.</p> <p>c. If no, provide the following calculations: i. Serial scan on risk of an aerial scan inspection on the same asset. ii. The eye-on-risk of an aerial scan inspection on an asset in an area of extreme consequence and severe wildfire risk. iii. The eye-on-risk of an aerial scan inspection on the same asset. iv. The eye-on-risk of an aerial scan inspection on an asset in an area of high consequence and high wildfire risk.</p>	<p>a. The difference between the inspections is that, while the detailed inspection will identify at completed locations on the structure, the serial scan focuses on uncompleted locations on the structure. To B, and X tag.</p> <p>b. PG&E is plotting the aerial scan inspection this year, utilizing different methodologies to implement the inspection for 2028. Therefore, we cannot provide a fully detailed list of the inspection methods used for the aerial scan.</p> <p>c. The aerial scan inspection is conducted to identify the presence of vegetation. The findings are Level 1 findings, and urgent Level 2 findings, which correspond to PG&E's A, B, and X categories. If a finding is present, the aerial scan is stopped immediately for an A tag, within seven days for an X tag, and within six month time frame for a B tag. Since PG&E's aerial scans are X and Z conditions, it achieves the same eye-on-risk as a detailed ground truth inspection.</p> <p>d. Not applicable, please see the response to sub(a) above.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	8	ACI PG&E-25U-04	ACI PG&E-25U-04
31	OEIS	001	OEIS_001	21	No	OEIS_001_02	<p>Regarding Aerial Scan Inspections On page 258 of the 2028-2028 WMP, PG&E states that aerial scan inspections will be implemented to get additional eye-on-risk in the naked asset. PG&E states the inspection will consist of a review of a photograph of the asset and a visual inspection of the asset. The inspection will be conducted using a photographic checklist, a written inspection checklist, etc.) (Provide documentation that supports this list of differences (job aids, inspection checklist, etc.) (Provide documentation that supports this list of differences (job aids, inspection checklist, etc.)</p>	<p>a. On page 258 of the 2028-2028 WMP, PG&E states that aerial scan inspections will be implemented to get additional eye-on-risk in the naked asset. PG&E states the inspection will consist of a review of a photograph of the asset and a visual inspection of the asset. The inspection will be conducted using a photographic checklist, a written inspection checklist, etc.) (Provide documentation that supports this list of differences (job aids, inspection checklist, etc.) (Provide documentation that supports this list of differences (job aids, inspection checklist, etc.)</p>	<p>a. The difference between the inspections is that, while the detailed inspection will identify at completed locations on the structure, the serial scan focuses on uncompleted locations on the structure. To B, and X tag.</p> <p>b. PG&E is plotting the aerial scan inspection this year, utilizing different methodologies to implement the inspection for 2028. Therefore, we cannot provide a fully detailed list of the inspection methods used for the aerial scan.</p> <p>c. The aerial scan inspection is conducted to identify the presence of vegetation. The findings are Level 1 findings, and urgent Level 2 findings, which correspond to PG&E's A, B, and X categories. If a finding is present, the aerial scan is stopped immediately for an A tag, within seven days for an X tag, and within six month time frame for a B tag. Since PG&E's aerial scans are X and Z conditions, it achieves the same eye-on-risk as a detailed ground truth inspection.</p> <p>d. Not applicable, please see the response to sub(a) above.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legacies_and_safespace/legacies_and_safespace/2020-2028_DR_OEIS_001.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.3.8.8.3.14

32	OEIS	001	OEIS_001	22	No	OEIS_001_02	Regarding Real Time Sensors On page 237 of its 2028-2028 Baseline WMP, PG&E states that it is placing real time sensors that may collect data from up to 10% of its wind farms. It also states that it will begin to phasing real time sensors. a. Provide a list of sensors that are being installed by phasing from 2028-2028. i. Manufacturer ii. Model iii. Location iv. Data the sensor records/measures (voltage, current, power, quality, temperature, vibration, etc.) v. Current phase of plan (planning, execution, evaluation, scaling) vi. Estimated completion date of pilot evaluation phase	PG&E is still early in exploring the relationship between grid sensors, continuous monitoring, and operational mitigations. It has not yet determined the best way to implement these technologies. Information on our current distribution grid sensor technologies follows below: a. During the 2028-2028 period, we anticipate scaling deployment of Early Fault Detection sensors, Distribution Grid Anticipator (DFA) sensors, and GridSense sensors. b. Please see below for more information on DFA sensors. As these sensors have been installed to date, we are also providing the approximate number of sensors we have installed to date. Early Fault Detection (EFD) Sensors Source: EFD DFA Oracles Source: EFD DFA Technologies Power Solutions / Texas A&M University GridSense Number installed: 203 Number planned / Series: EFD Tap EFD Tap GridSense Data the sensor records/measures (voltage, current, power, quality, temperature, vibration, etc.) i. Early fault detection ii. Wind energy detection iii. Weather	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	10	Situational Awareness and Forecasting	10/4/10/31
33	OEIS	001	OEIS_001	23	No	OEIS_001_02	Regarding Projected Risk Reduction On page 147 of the 2028-2028 Baseline WMP, PG&E provides Figure 6-1 Projected Overall Service Territory Risk, showing the residual risk over time with resiliency mitigations and operational mitigations. a. Provide a copy of Figure 6-1 showing the associated projected risk reduction for wildfire risk, PSPS risk, PEDS risk over time.	a. The following figures show the projected wildfire risk reduced 2023 – 2033 with and without operational mitigations. The projected wildfire risk reduced 2023 – 2033, and the projected PSPS risk reduced 2023 – 2033.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.1
34	OEIS	001	OEIS_001	24	No	OEIS_001_02	Regarding Extreme Weather Consequences On page 148 of its 2028-2028 Baseline WMP, relating to vegetation, PG&E states "For WFO, w/c of worst weather days during historical fire seasons is used to develop fire simulations of potential ignitions given current vegetation conditions." i. What timeframe is used to evaluate historical fire seasons? ii. How many "worst weather days" are included in the w/c used for WFO? iii. Does PG&E consider the number of "worst weather days" broken out by year from 2028 to 2033 as both only resiliency mitigations as well as resiliency and operational mitigations. iv. Provide a copy of Figure 6-2 showing projected operational mitigation.	a. The months of June through November, inclusive, constitute the Fire season. b. Worst Weather Days are determined by the PG&E Meteorology team based on historical fire flag warnings. PG&E's Fire Potential Index, historical fire ignitions, and historical fire days are used to determine the fire season. The first list of days is reviewed and curated by the meteorology team. c. How many "worst weather days" are included in the w/c used for WFO? d. Does PG&E consider the number of "worst weather days" broken out by year from 2028 to 2033 as both only resiliency mitigations as well as resiliency and operational mitigations. e. Provide a copy of Figure 6-2 showing projected operational mitigation.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	5	Risk Methodology & Assessment	5.3
35	OEIS	001	OEIS_001	25	No	OEIS_001_02	Regarding Suppression and Egress On page 149 of its 2028-2028 Baseline WMP, PG&E provides Figure 6A-2.1-1 WFO v Components, which shows consequence value adjustment steps for suppression access and egress. a. Provide a copy of Figure 6A-2.1-1 WFO v Components, which shows the overall WFO v base risk scores. Provide the percent change to the overall score when suppression access is incorporated, as well as a description of the impact to the ranking of highest risk credits based on w/c risk scores. b. Provide a copy of Figure 6A-2.1-2 WFO v base risk scores. Provide the percent change to the overall score when suppression access is incorporated, as well as a description of the impact to the ranking of highest risk credits based on w/c risk scores. c. Provide a detailed description of how PG&E is evaluating the impact value of suppression access. What other values, if any, are included in the impact value of suppression access? What other values, if any, are included in the impact value of egress? Provide a copy of Figure 6A-2.1-3 WFO v base risk scores. Provide the percent change to the overall score when suppression access and egress into WORMR credits are included. d. How does PG&E validate and verify the impact of including suppression access and egress into WORMR credits are included? Provide a copy of the documentation.	a. Egress and suppression were incorporated into the WFO consequence model in response to the PG&E's 2023-2025 WMP commitment. The current approach only applies to the WFO v base risk scores. The WFO v base risk scores are generated from the WMPW-2028-2028 DR, OEIS_001-02/25 Page 2. The WFO v base risk scores are generated from the WFO v base risk scores. The WFO v base risk scores are not generated distinctly for the total consequence risk values. b. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.2 for details on suppression modeling. c. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.3 for details on egress modeling. d. Please refer to Figure 6A-2.1-1 WFO v Components, which shows the overall consequence model. The factors under consideration include structure density, terrain, wildland-urban interface, and vegetation density. e. Please refer to Figures 6A-2.1-2 and 6A-2.1-3 2028-2028 Baseline WMP that describes how the various risk models incorporate the weather, wind, and vegetation scenarios as well as the impact of suppression access and egress.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	5	Risk Methodology & Assessment	5.2.1
36	OEIS	001	OEIS_001	26	No	OEIS_001_02	Regarding Community Vulnerability On page 150 of its 2028-2028 Baseline WMP, PG&E provides the following key reference as part of its risk assessment implementation plan: i. Provide a copy of the E3 Public Impact Model Version 4 document (page 57 of the 2028-2028 Baseline WMP). Describe how these relate to the evaluation discussed in the key milestones identified in the 2028-2028 Baseline WMP. ii. Provide a copy of the Public Impact Model Version 4 document (page 57 of the 2028-2028 Baseline WMP) as part of the critical customer weightings (Table PG&E-5.2.2.2, page 69 of the 2028-2028 Baseline WMP). Describe how these relate to the evaluation discussed in the key milestones identified in the 2028-2028 Baseline WMP. iii. Provide a description of how PG&E integrated community vulnerability considerations into its wildfire and PSPS models. iv. If PG&E is still undergoing this evaluation, what is PG&E's timeline for integration into future models?	a. As a result of the evaluation, PG&E incorporated census data of age as a proxy for household income into the 2028-2028 Baseline WMP. This was done to improve the Wildfire Consequence model v4. b. Please refer to the Wildfire Consequence model documentation. The WFO v base risk scores are generated from the WMPW-2028-2028 DR, OEIS_001-02/25 Page 2. The WFO v base risk scores are generated from the WFO v base risk scores. The WFO v base risk scores are not generated distinctly for the total consequence risk values. c. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.2 for details on suppression modeling. d. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.3 for details on egress modeling. e. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.4 for details on critical customer weightings. The WFO v base risk scores are generated from the WFO v base risk scores. The WFO v base risk scores are not generated distinctly for the total consequence risk values. f. Please refer to section 4.3 of the Public Impact Model Version 4. g. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.2 for details on the Wildfire Consequence model. The Wildfire Consequence model is a one measure consequence model. Research and collaboration with the Wildfire Consequence model team is ongoing. h. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.3 for details on the Wildfire Consequence model. The Wildfire Consequence model is a one measure consequence model. Research and collaboration with the Wildfire Consequence model team is ongoing. i. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.4 for details on critical customer weightings. The Wildfire Consequence model is a one measure consequence model. Research and collaboration with the Wildfire Consequence model team is ongoing. j. Please refer to the Wildfire Consequence model documentation, Sections 4.1 and 4.5 for details on the Wildfire Consequence model. The Wildfire Consequence model is a one measure consequence model. Research and collaboration with the Wildfire Consequence model team is ongoing.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	11	Emergency Preparedness, Collaboration, and Public Awareness	11.3.2/11.3.3
37	OEIS	001	OEIS_001	27	No	OEIS_001_02	Regarding Independent Review a. Provide a copy of the E3 Review of PG&E's Wildfire Risk Model Version 4, as referenced on page 105 of the 2028-2028 Baseline WMP. b. Provide PG&E's plan and timeline to address the two areas for improvement listed on page 105 from that report.	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	1	No	5	Risk Methodology & Assessment	5.6.1/5.6.2	
38	OEIS	001	OEIS_001	28	No	OEIS_001_02	Regarding PG&E's Wildfire Transmission Risk Model (WTRM) a. In Table 5-1 Wildfire Modeling Assumptions and Limitations, page 79 of the 2028-2028 Baseline WMP, PG&E states that it is using eight components and associated asset groupings for each component. Please provide a list of these 8 components and associated asset groupings for each component. b. In Table 5-1 Wildfire Modeling Assumptions and Limitations, page 79 of the 2028-2028 Baseline WMP, PG&E states that it is using eight components and associated asset groupings for each component. Please provide a list of these 8 components and associated asset groupings for each component. c. What asset types, if any, are not captured through this analysis and grouping? How is PG&E working to evaluate the risk not associated with these other asset types?	The table below lists the 47 components and associated asset groupings ("Component" refers to the individual component whose failure would result in a loss of service to a customer or system) and their corresponding asset groupings. The table is organized into 9 component groupings: (1) conductors, (2) insulators, (3) non-residential structures, (4) residential structures, (5) utility poles, (6) trees, (7) ground hardware (AGH), (8) below grade hardware (BGH), and (9) splices. The table also includes a column for the failure mode and a column for the failure rate. A deterministic approach was chosen for the transmission switch asset group and the distribution switch asset group. A probabilistic approach was chosen for the distribution pole asset group. The probabilistic approach utilizes asset data (age, manufacturer, type, location, etc.), manufacturers' recommendations, industry best practices and inspection results to prioritize components for inspection and maintenance. Components are grouped by asset type and asset population or limited deployment, which applies to the distribution pole asset group. Components are grouped by failure mode, if individual components whose failure could result in an outage are captured in the same asset group. Components are grouped by failure rate, if the failure rate is described in the previous paragraph (i).	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-0005_001.pdf	0	No	5	Risk Methodology & Assessment	5.2/5.5
39	MORA	002	MORA_002	1	No	MORA_002_Q1	Weather station metadata valid as of Q4 2024.	Please see "WMP-Discovery2028-2028_DR_MORA_002-Q001-Ah001.xlsx" in Attachment A.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-MORA_001.pdf	1	No	N/A	GIS	N/A
39	MORA	002	MORA_002	1(b)	Yes	MORA_002_Q1	Weather station metadata valid as of Q4 2024.	Please see "WMP-Discovery2028-2028_DR_MORA_002-Q001-Bh001.xlsx" in Attachment A.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-MORA_001.pdf	1	No	N/A	GIS	N/A
40	MORA	002	MORA_002	2	No	MORA_002_Q2	PSPS event damage event reports obtained from post-event patrols, including cause for all quarters of 2024.	In response to this request, PG&E is providing non-confidential data for the PSPS Event Damage Feature Classes, as defined in 2024. Please note that PG&E did not have data for the PSPS Event Damage Feature Classes for 2023. For example, there were no support structures or other asset damages, so there are no PSPS Event Damage Feature Classes for 2023. Please see the response files "PSPsEventOtherAssetDamageDetail" to report. Attached, please see the response files "PSPsEventOtherAssetDamageDetail" to report each quarter of 2024 for the PSPS Event Damage Feature Classes for 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-MORA_001.pdf	2	No	N/A	GIS	N/A
40	MORA	002	MORA_002	2(b)	Yes	MORA_002_Q2a	PSPS event damage event reports obtained from post-event patrols, including cause for all quarters of 2024.	Please see the attachments listed below in which PG&E has included the required data for the PSPS Event Damage Feature Classes for 2024. Please note that PG&E did not have data for the PSPS Event Damage Feature Classes for 2023. For example, there were no support structures or other asset damages, so there are no PSPS Event Damage Feature Classes for 2023. Please see the response files "PSPsEventOtherAssetDamageDetail" to report. Attached, please see the response files "PSPsEventOtherAssetDamageDetail" to report each quarter of 2024 for the PSPS Event Damage Feature Classes for 2024.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-MORA_001.pdf	3	No	N/A	GIS	N/A
41	MORA	002	MORA_002	3	No	MORA_002_Q3	Unplanned outage data, including cause for all four quarters of 2023 and 2024. a. If possible should include whether the outage occurred on a covered conductor segment	In response to this request, PG&E is providing non-confidential data for the Unplanned Outage Feature Class for all quarters including 2023 and 2024. Please see the response files "UnplannedOutageDetail" to report each quarter of 2024 for the Unplanned Outage Feature Class for all quarters including 2023 and 2024. Please see the response files "UnplannedOutageDetail" to report each quarter of 2024 for the Unplanned Outage Feature Class for all quarters including 2023 and 2024. MORA will be able to identify the Unplanned Outage Feature Classes that are not structured to include data on covered conductor segments and that PG&E is currently unable to provide the data for those feature classes. MORA will be able to identify the Unplanned Outage Feature Classes that are not structured to include data on covered conductor segments and that PG&E is currently unable to provide the data for those feature classes.	Joseph Mitchell	4/11/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pge/docs/legislative_and_safeguards_and_operations/2028-MORA_001.pdf	1	No	N/A	GIS	N/A

41	MORA	002	MORA_002	3(j)	Yes	MORA_002_Q3a	Unplanned outage data, including cause for all four quarters of 2023 and 2024. If possible should include whether the outage occurred on a covered conductor segment	Please see "WMP-Disclosure/2023-2024_DR_MORA_002-Q3a.xlsx", in which PG&E has included the requested labeling information.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_002.xls	1	No	N/A	GIS	N/A	
42	MORA	002	MORA_002	4	No	MORA_002_Q4a	Wire down data for all four quarters of 2023 and 2024. Include cause and any associated outage identifier. If possible should include whether the outage occurred on a covered conductor segment	In response to this request, PG&E is providing non-confidential data for the Wire Down Feature Class, as defined in the 8 quarters required in 2023 and 2024. Please see "WMP-Disclosure/2023-2024_DR_MORA_002.xls" for the requested labeling information. The provided Feature Classes are not restricted to include data on covered conductor segments, and thus PG&E is presently unable to provide the requested information. However, the data provided is the same information required by MORA in MORA-PGE-WMP2c_DatabaseQuest. MORA will be able to identify the feature class.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_002.xls	1	No	N/A	GIS	N/A	
42	MORA	002	MORA_002	4(j)	Yes	MORA_002_Q4b	Wire down data for all four quarters of 2023 and 2024. Include cause and any associated outage identifier. If possible should include whether the outage occurred on a covered conductor segment	Please see "WMP-Disclosure/2023-2024_DR_MORA_002-Q4b.xlsx", in which PG&E has included the requested labeling information.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_002.xls	1	No	N/A	GIS	N/A	
43	MORA	002	MORA_002	5	No	MORA_002_Q5	Upiron data for all four quarters of 2023 and 2024. Should include cause and any associated outage identifier. If possible should include whether the outage occurred on a covered conductor segment	In response to this request, PG&E is providing non-confidential data for the Upiron Feature Class, as defined in the 8 quarters required in 2023 and 2024. Please see "WMP-Disclosure/2023-2024_DR_MORA_002.xls" for the requested labeling information. The provided Feature Classes include the column "SuspectedUpironCauseAndOutageID" which are responsive to the question. To include data on covered conductor segmentation, and thus PG&E is presently unable to provide the requested information. However, the data provided is the same information required by MORA in MORA-PGE-WMP2c_DatabaseQuest, and make spatial delineations through the Primary Distribution Line feature class.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_002.xls	1	No	N/A	GIS	N/A	
43	MORA	002	MORA_002	5(j)	Yes	MORA_002_Q5a	Upiron data for all four quarters of 2023 and 2024. Should include cause and any associated outage identifier. If possible should include whether the outage occurred on a covered conductor segment	Please see "WMP-Disclosure/2023-2024_DR_MORA_002-Q5a.xlsx", in which PG&E has included the requested labeling information.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_002.xls	1	No	N/A	GIS	N/A	
44	MORA	003	MORA_003	1	No	MORA_003_Q1	Provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Number of miles of fully covered conductor circuit segments in the HFTD+HFRa b. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa c. Number of miles down for associated with a covered conductor circuit segment in the HFTD+HFRa d. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa e. Number of miles down for fully covered conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: b. Number of miles of fully covered conductor circuit segments in the HFTD+HFRa c. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa d. Number of miles down for associated with a covered conductor circuit segment in the HFTD+HFRa e. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	PG&E is providing the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. d. Please note that the data is provided from PG&E's Integrated Logging Information System ("ILS"). The reporting structure for ILS does not give single records for specific events, and does not include metrics for individual assets. As a result, PG&E is not able to differentiate between covered or bare conductor. In addition, ILS does not capture HFRa locations. However, PG&E is providing the total volume of wire down events in HFTD+HFRa filters based on current, not historical data. e. ILS records do not capture the type of wire, so PG&E is not able to differentiate between covered or bare conductor. In addition, ILS does not capture HFRa locations. However, PG&E is providing the total volume of wire down events in HFTD+HFRa filters based on current, not historical data. f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	1	No	8	Grid Design, Operations, and Maintenance	8.4.4.B.2.10
44	MORA	003	MORA_003	1(j)	Yes	MORA_003_Q1a	Provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Number of miles of fully covered conductor circuit segments in the HFTD+HFRa b. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa c. Number of miles down for associated with a covered conductor circuit segment in the HFTD+HFRa d. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa e. Number of miles down for fully covered conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: b. Number of miles of fully covered conductor circuit segments in the HFTD+HFRa c. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa d. Number of miles down for associated with a covered conductor circuit segment in the HFTD+HFRa e. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	PG&E is providing the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. d. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q1a.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. e. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q1a.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	1	No	8	Grid Design, Operations, and Maintenance	8.4.4.B.2.10
44	MORA	003	MORA_003	1(k)	Yes	MORA_003_Q1b	Provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Number of miles of partially covered circuit segments in the HFTD+HFRa b. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa c. Number of miles down for associated with a partially covered conductor circuit segment in the HFTD+HFRa d. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa e. Number of miles down for fully covered conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: a. Please provide an excel spreadsheet/table that provides for 2021, 2022, 2023, and 2024: b. Number of miles of partially covered circuit segments in the HFTD+HFRa c. Number of miles of "bare wire" conductor circuit segments in the HFTD+HFRa d. Number of miles down for associated with a partially covered conductor circuit segment in the HFTD+HFRa e. Number of miles down associated with a "bare wire" conductor circuit segments in the HFTD+HFRa f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	PG&E is providing the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. d. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q1b.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. e. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q1b.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. f. For ignition on partially covered circuit segments, sum those into the "fully covered" or "bare wire" groups based on the most prevalent circuit configuration in the area of the outage	Joseph Mitchell	4/1/2025	4/23/2025	4/23/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	1	No	8	Grid Design, Operations, and Maintenance	8.4.4.B.2.10
45	MORA	003	MORA_003	2	No	MORA_003_Q2	Some of the risk analysis in Table 3-1 (pp. 20-21) show wind as a Climatological Risk Factor. Please provide technical explanation as to why wind is a factor for the following Risk Sub-Dimensions. Also provide data supporting the association: a. Foul Weather b. Fuel c. Lightning Arrestor d. Protection e. Balloon f. Contamination	Some of the risk analysis in Table 3-1 (pp. 20-21) show wind as a Climatological Risk Factor. Please provide technical explanation as to why wind is a factor for the following Risk Sub-Dimensions. Also provide data supporting the association: a. Foul Weather b. Fuel c. Lightning Arrestor d. Protection e. Balloon f. Contamination	PG&E is providing the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. d. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q2.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. e. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q2.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. f. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q2.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data.	Joseph Mitchell	4/1/2025	4/18/2025	4/18/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	0	No	3	Overview of WMP	3.4
46	MORA	003	MORA_003	3	No	MORA_003_Q3	On p. 24, PG&E states that "These exceptional temperatures, in turn, impact the humidity of the atmosphere, increasing the occurrence of vapor pressure, which increases the potential for tree branch or tree root damage and health risk to vegetation, increasing the potential for branch or tree failures impacting our distribution system." Please provide data supporting the association: a. What evidence does PG&E have that demonstrates how drought conditions relate to vegetation failure? b. Has PG&E evaluated the relationship between drought variables and vegetation failure risk? If so, please provide details. c. If it does not do so, is planning to do so and what would be the timeline? If it is not planning to do so, is planning to do what is the justification?	On p. 24, PG&E states that "These exceptional temperatures, in turn, impact the humidity of the atmosphere, increasing the occurrence of vapor pressure, which increases the potential for tree branch or tree root damage and health risk to vegetation, increasing the potential for branch or tree failures impacting our distribution system." Please provide data supporting the association: a. What evidence does PG&E have that demonstrates how drought conditions relate to vegetation failure? b. Has PG&E evaluated the relationship between drought variables and vegetation failure risk? If so, please provide details. c. If it does not do so, is planning to do so and what would be the timeline? If it is not planning to do so, is planning to do what is the justification?	PG&E is providing the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. d. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q3.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. e. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q3.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data. f. Please see "WMP-Disclosure/2023-2024_DR_MORA_003-Q3.xlsx" for the requested information. Please note that the data provided reflects asset status as included in OR spatial data delivered to the Office of Energy Safety for each of 2021-2024. Please note that PG&E has applied HFTD and HFRa filters based on current, not historical data.	Joseph Mitchell	4/1/2025	4/22/2025	4/22/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	0	No	9	Vegetation Management & Inspections	9.9
47	MORA	003	MORA_003	4	No	MORA_003_Q4	Provide technical description and available documentation for the Suppression Access model used in the WFC v4 Consequence model, along with data and analysis used to support the Public Egress model.	PG&E refers to sections 4.2 and 4.3 in the Wildfire Consequence model version 4 documentation for details on the Suppression model, available at Community Wildfire Safety Program.	Joseph Mitchell	4/1/2025	4/22/2025	4/22/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	0	No	5	Risk Methodology & Assessment	5.4	
48	MORA	003	MORA_003	5	No	MORA_003_Q5	Provide technical description and available documentation for the Public Egress model used in the WFC v4 Consequence model, along with data and analysis used to support the Public Egress model.	PG&E refers to sections 2.4 and 2.5 in the Wildfire Consequence model version 4 documentation for details on the Public Egress model, available at Community Wildfire Safety Program.	Joseph Mitchell	4/1/2025	4/22/2025	4/22/2025	https://www.pge.com/issuers/pdfs/issuances_and_reports/2024_MORA_003.xls	0	No	5	Risk Methodology & Assessment	5.4	

49	MORA	003	MORA_003	6	No	MORA_003_QF		<p>Regarding the WORM v4 spatial probability model:</p> <ul style="list-style-type: none"> a. Are the covariates calculated at each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? b. If there is more than one value per geographic location, what is the geographic location? c. Are they calculated per year? <p>b. Please provide tabular data supporting each of the "Feature Importance" figures in the Distribution Event Probability Models v4 documentation.</p> <p>c. If there is a single value for feature importance, then please provide GIS data for the following features/variables for the HFT+HPPA service area of the PG&E service area:</p> <ul style="list-style-type: none"> a) Average daily wind speed b) Percent difference from average winter season daily max windspeed c) Average daily relative humidity d) Average winter season vapor pressure deficit e) Percent gusty summer day 	<p>c. The requested geospatial data is provided in the following formats. Each dataset:</p> <ul style="list-style-type: none"> - A shapefile is provided in the "WMP-Discovery2028-2029_DR_MORA_003-Q05Supp1Acn01.zip" for the following data inputs. Each row represents a unique location and contains multiple columns for multiple year average values. - WMP-Discovery 2028-2029_DR_MORA_003-Q05Supp1 Page 2 - WMP-Discovery 2028-2029_DR_MORA_003-Q05Supp1 Page 3 - Average winter season relative humidity deficit - Average winter season vapor pressure deficit - A shapefile is provided in the Attachment "WMP-Discovery2028-2029_DR_MORA_003-Q05Supp1Acn01.zip" for the following data input. - Each row represents a year of input data for a distribution support structure. - Percent difference from average winter season daily max windspeed - A geotiff raster file in the Attachment "WMP-Discovery2028-2029_DR_MORA_003-Q05Supp1Acn01.zip" for the following data input. - The raster file contains one band of data and is clipped to PG&E's service territory. - Percent gusty summer day 	Joseph Mitchell	4/1/2025	5/5/2025	5/5/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	1	No	5	Risk Methodology & Assessment	5.4	
49	MORA	003	MORA_003	6(a)	Yes	MORA_003_QF		<p>Regarding the WORM v4 spatial probability model:</p> <ul style="list-style-type: none"> a. Are the covariates calculated at each geographic location in the machine learning models such as Random Forest calculated as one value per geographic location? b. If there is more than one value per geographic location, what is the geographic location? c. Are they calculated per year? <p>b. Please provide tabular data supporting each of the "Feature Importance" figures in the Distribution Event Probability Models v4 documentation.</p> <p>c. If there is a single value for feature importance, then please provide GIS data for the following features/variables for the HFT+HPPA service area of the PG&E service area:</p> <ul style="list-style-type: none"> a) Average daily wind speed b) Percent difference from average winter season daily max windspeed c) Average daily relative humidity d) Average winter season vapor pressure deficit e) Percent gusty summer day 	<p>c. The requested geospatial data is provided in the following formats. Each dataset was exported using EPSG:4236:</p> <ul style="list-style-type: none"> - A shapefile is provided in the "WMP-Discovery2028-2029_DR_MORA_003-Q05Supp1Acn01.zip" for the following data inputs. Each row represents a unique location and contains multiple columns for multiple year average values. - WMP-Discovery 2028-2029_DR_MORA_003-Q05Supp1 Page 2 - WMP-Discovery 2028-2029_DR_MORA_003-Q05Supp1 Page 3 - Average winter season daily wind speed - Average winter season vapor pressure deficit - A geotiff raster file in the Attachment "WMP-Discovery2028-2029_DR_MORA_003-Q05Supp1Acn01.zip" for the following data input. - The raster file contains one band of data and is clipped to PG&E's service territory. - Percent gusty summer day 	Joseph Mitchell	4/1/2025	5/5/2025	5/5/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	3	No	5	Risk Methodology & Assessment	5.4	
50	MORA	003	MORA_003	7	No	MORA_003_QF		<p>Regarding Figure PGAE-6.1.2.2 (2028 Year Baseline) representing system-wide portfolio risk, do you include PG&E's risk scaling function?</p> <p>If yes, do you also show a figure showing the same values without the scaling function (or neutral risk attribute)?</p>	<p>Yes, the values shown in Figure PGAE-6.1.2.2 (2028 Year Baseline) includes PG&E's risk scaling function. Please see the figure below which shows the same values without the scaling function (or neutral risk attribute).</p>	Joseph Mitchell	4/1/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2	
51	MORA	003	MORA_003	8	No	MORA_003_QF		<p>Figure 6-10 (140) shows PG&E's fractional risk reduction on a yearly basis from 2018-2023. Using this information and methodology, please provide an equivalent fractional risk reduction for the years 2019-2024, assuming the same data provided to PG&E, including which of PG&E's current assets had the highest risk between 2017 and 2024.</p>	<p>PG&E did not start estimating wildfire risk reduction until 2023 with the 2023-2025 WMP cycle. The risk reduction calculations require temporal and spatial alignment across a model version, circuit segments, and work plans. Currently, neither circuit segment nor work plan information is available for the 2023-2025 WMP cycle. The earliest year for which data is available is 2018. The earliest year for which data is available is 2018. The earliest year for which data is available is 2018. The earliest year for which data is available is 2018.</p>	Joseph Mitchell	4/1/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2	
52	MORA	003	MORA_003	9	No	MORA_003_QF		<p>According to the WMP-Discovery 2028-2029 DR MORA_003-Q05Supp1Acn01, PG&E states that "In 2023, there were observed options that occurred during EPSS production that were lower than the detectable thresholds of O&C. It was determined that these options were due to the low voltage trip settings, potentially preventing the option (O&C) not present. In 2024, we revised SGF trip settings to align with the new O&C thresholds. This revision removed the high impedance faults that could potentially be detected by lower trip settings." Please provide the revised SGF trip settings.</p>	<p>PG&E states that "In 2023, there were observed options that occurred during EPSS production that were lower than the detectable thresholds of O&C. It was determined that these options were due to the low voltage trip settings, potentially preventing the option (O&C) not present. In 2024, we revised SGF trip settings to align with the new O&C thresholds. This revision removed the high impedance faults that could potentially be detected by lower trip settings." The revised SGF trip settings were implemented in the 2025 EPSS season.</p>	Joseph Mitchell	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	0	No	6	ACI PG&E-25U06	Evaluation and Reporting of Safety Impacts Relating to EPSS	ACI PG&E-25U06
53	MORA	003	MORA_003	10	No	MORA_003_QF		<p>Please see Figure PGAE-6.1.2.2 (2028 Year Baseline) representing system-wide portfolio risk, do you include PG&E's risk scaling function?</p> <p>If yes, do you also show a figure showing the same values without the scaling function (or neutral risk attribute)?</p>	<p>Please see "WMP-Discovery2028-2029_DR_MORA_003-Q01Acn01.pdf" and citation below:</p> <p>Author: Roberta "Chaos and weather prediction January 2020" European Centre for Medium-Range Weather Forecasts technical note series Edition: 2020</p>	Joseph Mitchell	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	1	No	10	Situational Awareness and Forecasting	10.5	
54	MORA	003	MORA_003	11	No	MORA_003_QF		<p>Please provide tabular data in Excel spreadsheet format containing the data in the following tables:</p> <ul style="list-style-type: none"> a. TABLE 4-3 FREQUENTLY D-E ENERGIZED CIRCUITS (CONTINUED) b. TABLE 4-4 D-E ENERGIZED CIRCUITS BY STATE AND BY SERVICE PLANS c. TABLE 4-5 PG&E PRIORITY AREAS BASED ON OVERALL UTILITY RISK d. TABLE 6-4.1 TABLE 6-4.2 SUMMARY OF RISK REDUCTION FOR TOP RISK 	<p>Please see "WMP-Discovery2028-2029_DR_MORA_003-Q01Acn01.xlsx" for all tables in PG&E's 2028-2029 EPSS in Excel spreadsheet format.</p>	Joseph Mitchell	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_MORA_003.pdf	1	No	7	Public Safety Power Shutoff	7.7.6.2.1	
55	OEIS	002	OEIS_002	1	No	OEIS_002_QF		<p>PG&E states on page 140 of its 2028-2029 Base WMP that "The number of FPI events is driven by weather. In particular wind speeds and fall conditions both relate to events that reduce system reliability. Therefore, improving our risk model sensitivity to both weather, vegetation, and fuel conditions through the adoption of changes in our fire ignition Probability Weather, and Operability Assessment models."</p> <p>In the 2028-2029 Base WMP, the following table provides the Fire Potential Index Breakpoints for each of the FPI Breakpoints categorized as "Small, Large, Critical, and Catastrophic" based on potential fire acreage affected.</p> <p>In the State Executive Strategic Slide Deck utilized on the December 9, 2024, PFSB briefing (slide 2), it is stated:</p> <ul style="list-style-type: none"> a. Provide the following information regarding the Fire Potential Index Breakpoints and how they are used in the FPI model. b. Describe the Fire Potential Index naming conventions used between the WMP submission and the FPI model. c. Describe the Fire Potential Index Breakpoints used in the FPI model. d. A detailed description of what weather conditions are associated with each level of the FPI Breakpoints (i.e. Small, Large, Critical, and Catastrophic). e. The initiation criteria for FPIs events for each of the FPI Breakpoints (i.e. Small, Large, Critical, Catastrophic). 	<p>a. The FPI model is based on a multi-classification balanced random forest framework, a decision tree classification machine learning model based on historical data and fire ignition patterns. The FPI is trained on the resulting performance metrics generated by Sonoma Technology (McClure et al., 2022) that combines agency fire history data with other datasets such as land cover, vegetation, and climate. The FPI classifies small, moderate, critical, and catastrophic defined fires. These classes are based on the potential size of the fire. The critical and catastrophic classes are based on the potential intensity of the fire. The intensity would be defined as small, while a fast moving, intense fire would be defined as catastrophic. Classes tend to be catastrophic definitions described by the National Fire Danger Rating System. These definitions are based on the potential intensity and geographic characteristics of the fire. The FPI model uses fire history data and topographic data to be able to forecast the potential size of the fire. The FPI model uses the fire history data to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire. The conditional probability is then converted to a probability of the critical and catastrophic classes combined is translated into a probability of igniting a fire. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire.</p> <p>b. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire.</p> <p>c. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire.</p> <p>d. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire.</p> <p>e. The FPI model uses the fire history data and the geographic characteristics of the fire to calculate the conditional probability from 0 – 100% of igniting a fire given the fire history data and the geographic characteristics of the fire.</p>	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_OEIS_002.pdf	0	No	7	Public Safety Power Shutoff	7	
56	OEIS	002	OEIS_002	2	No	OEIS_002_QF		<p>Regarding improvements to accuracy of asset inventory data:</p> <p>On page 536 of its 2028-2029 Base WMP, PG&E describes its objective to "evaluate and propose new methods to improve the accuracy of asset inventory data" as well as "improve the accuracy of asset inventory data to support the objective to increase the accuracy of assessment inventory data" and Table 12-1 (page 538) states that the objective corresponds to the following ES-02 project. Additionally, on page 537 of its 2028-2029 Base WMP, PG&E responds to PGAE-22-33 - Progress on Filing Asset Inventory Data Gaps (PGAE 2023-2025 Base WMP R8, response 1128) and states:</p> <ul style="list-style-type: none"> a. Describe the status of PGAE's efforts to populate missing asset data in the asset registry. b. Describe the milestones PGAE will use to measure progress toward this objective. 	<p>The Asset Registry Data Gap (AR-17) initiative from 2023-2025 Base WMP will continue to ES-02.</p> <p>c. Describe the milestones PGAE will use to measure progress toward this objective.</p>	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	https://www.pge.com/assets/pdfs/letters/letters_and_safes/utility_prospects_and_outcomes/2028_OEIS_002.pdf	0	No	ES-02(A)-11	ES-02(A)-11	ES-02(A)-11	

107	OEIS	003	OEIS_003	6	No	OEIS_003_Q6	Regarding Pole Clearing Table 9 shows an Activity Timeline. Target of 365 days for Pole Clearing Program (WAD2). a. Provide documentation of 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.	a. To maintain compliance with PRC § 4292, PG&E performs pole pole clearing activities. b. PRC § 4292, Section 7.1 "Initial Planning": pole clearing personnel must perform inspection and work at each designated location to ensure compliance with PRC § 4292. Pole clearing activities occur during four phases which are conducted sequentially: • Inspection: October of the Prior Year – March • Initial Planning: April – June • Maintenance 1 (M1) (as required for "Inspect No Work" locations, all overhead conductors and poles) – July through August • Maintenance 2 (M2) (as required for "Inspect No Work" locations, all overhead conductors and poles) – September through December c. WAD2 DR, DR_CDR_003-2020_Pulse_001_v115, dated 10/20/2020. d. Please refer to response to X for the four phases established and utilized annually by the Pole Clearing program to ensure the 365-day timeline is met.	Nathan Poos	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	0	No	9	Vegetation Management & Inspections	9.4
108	OEIS	003	OEIS_003	7	No	OEIS_003_Q7	Regarding Substation Inspection Timelines Table 9.2 shows an Activity Timeline of 274 days for Substation Inspections - Distribution (VM40), Substation Inspections - Transmission (VM40), and Substation Inspections - Power Generation (VM40). a. Provide documentation of 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.	a. To maintain compliance with PRC § 4292, PG&E performs substation inspections to maintain compliance with PRC § 4292 as soon as possible. Substation inspections are required to maintain compliance with PRC § 4292 as soon as possible. Substation inspections may be completed by the end of the year. b. PG&E performs substation inspections to maintain compliance with PRC § 4292, which provides deferred space inspections for substations and powerhouses, not pole clearings. Substation inspections are required to maintain compliance with PRC § 4292 as soon as possible. In general, these factors may include, but are not limited to, physical conditions, weather, and equipment availability. c. PG&E objects to the request on the grounds that continuing discovery inspections are unnecessary and redundant. The inspection period for the 2020-2024 WAD2 DR, DR_CDR_003-2020_Pulse_001_v115, dated 10/20/2020. Notwithstanding and without waiving this provision, PG&E will provide the requested information to the requester as soon as possible. d. PG&E objects to the request on the grounds that continuing discovery inspections are unnecessary and redundant. The inspection period for the 2020-2024 WAD2 DR, DR_CDR_003-2020_Pulse_001_v115, dated 10/20/2020. Notwithstanding and without waiving this provision, PG&E will provide the requested information to the requester as soon as possible.	Nathan Poos	4/15/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	1	No	8	Grid Design, Operations, and Maintenance	8.3.15
109	SPD	002	SPD_002	1	No	SPD_002_Q1	Every Friday by noon, provide SPD 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 submitted to PG&E with the data requests.	Eddie Schmitt	4/16/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	0	No	N/A	N/A	N/A	
110	SPD	002	SPD_002	2	No	SPD_002_Q2	Every Friday by noon, provide SPD 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.	Eddie Schmitt	4/16/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	0	No	N/A	N/A	N/A	
111	SPD	002	SPD_002	3	No	SPD_002_Q3	Every Friday by noon, provide SPD with the updated native format version (i.e. Excel) of the PG&E WDR.	Eddie Schmitt	4/16/2025	4/18/2025	4/18/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	0	No	N/A	N/A	N/A	
112	TURN	003	TURN_003	1	No	TURN_003_Q1	Please provide PDU's latest risk reduction plan including assumptions and results in Excel. Please provide all outputs and assumptions available. At minimum, this should include Circuit Protection Zone (CPZ) names, circuit numbers, and total miles of overhead conductors and total miles of each CPZ in separate columns. In addition, please include the following: a. Total miles of overhead conductors and total miles of overhead conductors from 2025-2028 (please indicate the year work will start and finish) b. Total miles of overhead conductors and total miles of overhead conductors from 2025-2028 (please indicate the year work will start and finish) c. Please provide PDU's latest risk reduction plan including assumptions and results in Excel. Please provide all outputs and assumptions available. At minimum, this should include Circuit Protection Zone (CPZ) names, circuit numbers, and total miles of overhead conductors and total miles of each CPZ in separate columns. In addition, please include the following: a. Total miles of overhead conductors and total miles of overhead conductors from 2025-2028 (please indicate the year work will start and finish)	Raina Yanagiba	4/17/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	3	No	5	Risk Methodology & Assessment	5.4	
113	TURN	003	TURN_003	2	No	TURN_003_Q2	Please provide an estimate, by activity, of total annual cost and risk reduction, for all wildfire mitigation activities from 2019-2024 (recorded, planned, and proposed) for the 2020-2024 WAD2 DR, DR_CDR_003-2020_Pulse_001_v115, dated 10/20/2020. Please provide all supporting calculations and data in Excel.	Raina Yanagiba	4/17/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	0	No	5	Risk Methodology & Assessment	5.4	
114	TURN	003	TURN_003	3	No	TURN_003_Q3	In Excel, please provide the outputs of the PPSPs and EPSSs risk models, respectively, for the same circuit/CPZ identifiers as provided in the previous questions. At minimum, this should include Circuit Protection Zone (CPZ) names, circuit numbers, and total miles of overhead conductors and total miles of each CPZ in separate columns. In addition, please include the following: a. Total miles of overhead conductors and total miles of overhead conductors from 2025-2028. Please indicate the year the mitigation is completed.	Raina Yanagiba	4/17/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/legal/docs/activities-and-safety/initial-planning-and-support/2020-2024-cdr_003.xls	1	No	5	Risk Methodology & Assessment	5.4	
115	TURN	003	TURN_003	4	No	TURN_003_Q4	Section 6.1.3.1, page 129, states "PG&E estimates that the average cost for primary distribution undergrounding is approximately \$3.0 million per mile and installing undergrounding in total coverage areas would be approximately \$1.5 million per mile." a. Please provide the cost for these calculations, including any calculations in Excel. b. Is overhead conductors removed overhead risk? If so, please provide PG&E's estimate in dollars per overhead mile and provide the underlying assumptions/calculations to show how the estimate was derived. Please provide the estimate in Excel with supporting data and calculations. c. Is overhead conductors removed overhead risk removed? d. Is overhead conductors removed overhead risk removed? e. Is overhead conductors removed overhead risk removed? f. Is overhead conductors removed overhead risk removed? g. Is overhead conductors removed overhead risk removed? h. Is overhead conductors removed overhead risk removed? i. Is overhead conductors removed overhead risk removed? j. Is overhead conductors removed overhead risk removed? k. Is overhead conductors removed overhead risk removed? l. Please provide assumed cost (Breakout DR) for covered conductors separately, as well as separately in 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 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Row	Turn	DR	DR ID	Question	Response Type	Response Content	Response Date	Review Date	Review Date	Review Date	Link	Comments	Risk Methodology & Assessment	Version				
117	TURN	003	TURN_003	6	No	TURN_003_Q1	Please provide recorded and forecast red flag warning circuit mile days in Excel with supporting data and calculations. Please use "WMP_Discovery2028_DR_TURN_003-Q01Ach01.xlsx" as the assumption for PG&E's risk modeling, if available.	Please see "WMP_Discovery2028_DR_TURN_003-Q01Ach01.xlsx" for recorded red flag warning circuit miles days. The file includes historical data from 2010-14 and projected data for 2015-2028. The projected data does not include "forecast" for red flag warning circuit miles days in its risk modeling.	Reina Yanagiba	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-TURN_003.xls	1	No	5	Risk Methodology & Assessment	5.3
118	TURN	003	TURN_003	7	No	TURN_003_Q1	a. The date of each ignition. b. Location of each ignition (e.g., address). c. Structures destroyed. 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 "WMP_Discovery2028_DR_TURN_003-Q01Ach01.xlsx" for the requested information.	Reina Yanagiba	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-TURN_003.xls	1	No	5	Risk Methodology & Assessment	5.2.2.1
119	TURN	003	TURN_003	8	No	TURN_003_Q1	Regarding the mitigation effectiveness of covered conductor: a. Please provide all studies known to PG&E that calculate the number of ignitions per year for each type of mitigation, other than SME estimates. b. On an annual basis, please provide the number of faults per line on lines with covered conductor versus lines without covered conductor for the years 2010-2028. c. From 2010-2024 on an annual basis, please provide the number of ignitions per line on lines with covered conductor versus lines without covered conductor for PG&E's WFTD.	a. Please see PG&E's response brief "WMP_2024_DR_TURN_003Q01" provided to TURN on September 10, 2024, for further details regarding an example analysis of observed covered conductor mitigation effectiveness and associated costs. The brief also includes the analysis. These resources include: i. Targeted installation in areas areas of tree strike risk in alignment with PG&E's decision tree. ii. Cost-benefit analysis based on only two known repeatable ignitions on covered conductor. PG&E has subsequently identified an additional system. iii. PG&E is also partnering with UCLCA on an observed effectiveness study for covered conductor mitigation. This study will use the limited data availability in addition to the new points reflected above. iv. Targeted installation in areas areas of tree strike risk in alignment with PG&E's decision tree. v. Cost-benefit analysis based on only two known repeatable ignitions on covered conductor. PG&E has subsequently identified an additional system. vi. PG&E is also partnering with UCLCA on an observed effectiveness study for covered conductor mitigation. This study will use the limited data availability in addition to the new points reflected above. vii. Targeted installation in areas areas of tree strike risk in alignment with PG&E's decision tree. viii. Cost-benefit analysis based on only two known repeatable ignitions on covered conductor. PG&E has subsequently identified an additional system. ix. PG&E is also partnering with UCLCA on an observed effectiveness study for covered conductor mitigation. This study will use the limited data availability in addition to the new points reflected above. x. Please see the table below for the volume of ignitions for PG&E's covered conductor in the WFTD. Please note the PG&E ignores "faults" as categories, while we do not track ignitions by covered conductor line miles. However, we do track ignitions by covered conductor line miles. We have tracked covered conductor in the WFTD, based on the number of such systems in each year and the PCT/HFPA at the time of each year. As such, the values may not be fully representative of covered conductor line miles may have changed throughout the year.	Reina Yanagiba	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-TURN_003.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
120	TURN	003	TURN_003	9	No	TURN_003_Q1	For each project proposed from 2028-2029 for UG and CC, please provide the following in Excel with all supporting data, calculations, and assumptions: a. Cost-benefit ratio of UG and CC for each project, indicating which project is more cost effective. b. Total risk reduction for each project. c. Total risk reduction for the project. d. Total risk reduction for the project.	a. As discussed in response to TURN-003_Q01, PG&E did not calculate CBRs for projects planned to be completed in 2028 and analysis was in line with the Risk Based Decision-Making Framework, Phase 2 level CBR calculations. b. The members of the WBCA to perform a cost-benefit analysis during scoping for work to be completed in 2027 and 2028. However, that analysis had not been completed. The cost-benefit analysis for the work to be completed in 2028 has not been estimated, as seen in previous DR response (OEIS-003_Q01), where the CBR data presented in PG&E's 2028-2029 WMP are presented as the CBRs for the work to be completed in 2028. The cost-benefit analysis for work to be proposed in the GRC and are generated using the Enterprise Risk Models. These models consider the location of the work and program of relevance. Additionally, these models based on our location of work and program of relevance. Additionally, these models account for the entire benefit life of the projects and present value of the projects. c. D-2028-001-001-001 WMP_Discovery2028-2029_DR_TURN_003-2029 Page 2 d. The cost-benefit analysis for the work to be completed in 2028 can be found in section 6.2.1.2 Cost Benefit Scores of PG&E WMP Plan R0 2028-2029. e. N/A f. N/A	Reina Yanagiba	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-TURN_003.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
121	TURN	003	TURN_003	10	No	TURN_003_Q1	Section 8.2.1 Page 19 states "In an open location, overhead hardening does not reduce the impact from PSPS events, but is expected to reduce EPSS-caused outages." Please explain why PG&E has not installed overhead hardening in Southern California. Please also explain the probability of PSPS, as Southern California Edison has done. Please provide a copy of the SCE's and PG&E's service territory overhead hardening programs.	PG&E does not use weather-related wind speed thresholds for PSPS scenarios methodology that combines the probability of an ignition (ignition Probability Weather (IPW)) with the probability of a reaction (the If the Potential Ignition Probability (PIP)). The PIP is the probability of a reaction given the potential called OPRI, that is trained if outages were observed or not. Across our entire network there are many different types of conductors, each with different characteristics from covered conductor, vegetation management, or any other program that would reduce the risk of igniting. We have developed a model to identify the localized areas where the model is trained on.	Reina Yanagiba	4/17/2025	4/22/2025	4/22/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-TURN_003.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
122	OEIS	004	OEIS_004	1	No	OEIS_004_Q1	Regarding Third-Party Model Review: a. Page 12 of the E3 review states that "The main driver for consequences is the FPI score, which further reduces the likelihood of igniting. The FPI score is determined from the Technologies analysis. On page 13 of the Wildlife Impact Assessment Model V4 document, ten criteria are mentioned for the predictive destructive criteria, one for FPI-R Out of the simulated weather history, how many days from 2012 through 2022 have met each criterion in the Hirsch test circle? b. Predictive description of how FPI-R compared to predictive destructive criteria influence the consequence score.	The criteria for "predicted destructive" was compiled for every 1000/100m raster pixel containing grid infrastructure. We confirmed this request for the first 1000/100m pixels. The results showed that approximately 10% of the high-risk circuit segment meets each of the "predicted destructive" criteria. We also ran the same analysis for the entire network for the years 2012-2028, as those were used for the analysis, the results of which are tabulated in the worksheet titled "Predicted destructive data". c. The predicted destructive criteria draw on different sources of data. d. The predictions of the FPI model, an empirical model based on historical data, are used to predict the likelihood of igniting. The FPI score is given for 1-5-km areas (4+ are classified as predicted destructive conditions). The A score expresses how likely a destructive fire is, given the past record of ignitions in the area. The FPI score is calculated for each 1000/100m pixel for each of the 183 days of the June-November wildfire season annually from 2012 through 2028. The FPI score is the sum of the probabilities of igniting on each day across all grid locations. These metrics describe how intense and fast-moving simulated fires were, with thresholds for predicted destructive fires set at 1000/100m pixels. The FPI score is used to predict destructive fires. For the most part, it is keeping past practice, the FPI model uses the same data as the FPI-R model. The FPI model uses data identified by PG&E's meteorology team from the weather data for each year. The FPI model uses data from the California Department of Water Resources' weather data for each year. The FPI model uses data available each year, with data spanning 2012 through 2028 available at https://www.dwr.ca.gov/water-data/long-term-weather-data/. Either source of data is sufficient to label conditions as "predicted destructive". The FPI model is probabilistic and tuned to past outcomes, under the same month and date of year from different weather basins/stations. The simulations tend to respond to	Nathan Poon	4/18/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-OEI_004.xls	1	No	5	Risk Methodology & Assessment	5.4
123	OEIS	004	OEIS_004	2	No	OEIS_004_Q1	Regarding the Wildfire Transmission Risk Model: a. On page 32 of PG&E's Wildfire Transmission Risk Model Documentation v4, PG&E references the "T-Line Asset Data Quality Improvement - Critical Components, Guide to Conservative Assumptions," dated January 14, 2020. Provide a copy of the document.	Please see "WMP_Discovery2028_DR_OEI_004-Q002Ach01.pdf" for the requested information.	Nathan Poon	4/19/2025	4/23/2025	4/23/2025	https://www.pge.com/assets/pge/docs/legislative-and-safety/legislative-regulations-and-concept/2028-OEI_004.xls	1	No	5	Risk Methodology & Assessment	5.4

131	OEIS	005	OEIS_005	3	No	OEIS_005_Q1	Regarding Distribution Routine Patrol Page 363 of PG&E's 2020-2028 Base WMP states "In 2025, PG&E will use data gathered from proven remote sensing technologies to identify areas that may be further refined to target specific locations for inspection. Based on these technologies," further, page 363 states "PG&E may consider reworking the plan in two of ground-based inspections on electrical parts that typically have no access around the lines, to provide customers with a more efficient way to inspect these parts." a. Does the target for Distribution Routine Patrol listed on Table 9-2 (VM-10) include circuit miles that will be inspected using remote sensing?	a. No, the target for Distribution Routine Patrol listed in Table 9-2 does not currently include miles to be inspected using remote sensing. PG&E is analyzing potential opportunities to expand the use of remote sensing to inspect overhead lines, some number of miles may be inspected using only remote sensing in the future. Remote sensing is not expected to be applied where there are typically no trees in proximity to the line.	Nathan Poon	4/22/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	9	Vegetation Management and Inspections	9.2.1	
132	OEIS	005	OEIS_005	4	No	OEIS_005_Q1	Regarding Quality Assurance and Quality Control Unit Equivalents On page 410 of its 2020-2028 Base WMP, PG&E lists "Inspections" as "PG&E's primary quality control unit." The term "inspections" is defined as "the number of miles or kilometers of overhead lines or underground lines that are either "inspected" or "spaced." This makes it unclear whether the "Population Sample Unit" is "inspections" or another unit.	a. Clearly state the sample unit to be quality control and quality assurance audits by describing i. The type of equipment or software PG&E uses to draw samples randomly. ii. The population of inspections, miles, spars, or another population.	a. i. OC (VM-22D, -22P, and -22T). Excel will be used as our randomization tool in 2026-28. ii. The population of inspections, miles, spars, or another population.	Nathan Poon	4/22/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	9	Vegetation Management and Inspections	9.11
133	OEIS	005	OEIS_005	5	No	OEIS_005_Q1	Regarding Quality Control – Pole Clearing (VM-22P) Target On page 410 of its 2020-2028 Base WMP, PG&E lists "Pole clearings" as the population unit for its Quality Control Unit. The term "pole clearings" is defined as "the number of utility poles annually that are cleared by PG&E." The term "utility pole" is defined as "any pole used for the 2028-2029 Base WMP's PGE-DU activity." a. Calculate the estimated number of inspections or inspections to complete the "2028-2029" or "2028" column from "miles" to actual or estimated values in "miles". b. Explain how PG&E's audit for quality control is different than its targets for its pole clearing activity each year.	We apologize; the discrepancy is due to an inadvertent error. The correct population number of Quality Control Pole Clearing poles in HFR and HFD to be sampled from is 10,000 annually, not 6,000.	Nathan Poon	4/22/2025	4/25/2025	4/25/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	9	Vegetation Management and Inspections	9.4	
134	OEIS	005	OEIS_005	6	No	OEIS_005_Q1	Regarding Risk Model Validation On page 410 of its 2020-2028 Base WMP, PG&E lists "Risk Model Validation" as "the process of validating the risk model to ensure it is reliable for use in decision making." The term "validation" is defined as "the process of verifying that the risk model is valid." a. Provide the date the model was updated as a result of validation, including, at minimum the month(s) and year(s) the model was updated and the reason for the update. b. Explain what the official WMP risk model validation includes.	a. The validation was last executed during the months of August to December 2023 as part of the Wildfire Consequence v1 model development and validation. b. The validation was last executed during the months of October to December 2023 as part of the Wildfire Consequence v1 model development and validation.	Nathan Poon	4/22/2025	5/1/2025	5/1/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	5	Risk Methodology & Assessment	5.4	
135	OEIS	005	OEIS_005	7	No	OEIS_005_Q1	Regarding Wildfire Safety Risk Monitoring In response to data request OEIS-P-WMP-2023-PGE-002, Question 13 regarding Reliability and Public Safety Risk Models, PG&E states that the components – Insulator Contamination Update, Public Safety Risk Model v2, and Wildfire Safety Risk Model v2 – are being developed to support the reliability and public safety risk models used for safety mitigation planning and to "developed to help inform internal investment planning strategy."	i. Insulator contamination: This model is still in development for WTRM. There is no formal documentation yet. ii. Public safety: This model is still in development for WTRM. There is no formal documentation yet. iii. Wildfire safety: Wildfire safety risk monitoring includes the following: a. A new model is being developed to monitor the Wildfire Safety Risk Model v2.	Nathan Poon	4/22/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	5	Risk Methodology & Assessment	5.4	
136	OEIS	005	OEIS_005	8	No	OEIS_005_Q1	Regarding Climate-Driven Extreme Risk Figure PG&E-S.3.2.1 (pg. 90, PG&E's 2020-2028 Base WMP) provides scenarios involving climate-driven risk as part of the climate change risk analysis. The scenario descriptions are as follows: Question 24: PG&E discusses configuration risk of its system scenario. Question 25: PG&E discusses the projected risk of climate-driven risk as it relates to the research paper in Figure PG&E-S.3.2.1. Question 26: PG&E discusses the projected risk of climate-driven risk and for when PG&E is planning on implementing changes related to climate-driven risk as it relates to the findings from the research paper referenced in Figure PG&E-S.3.2.1. d. If no such changes are planned relating to the figure, describe why no such changes are planned.	The projection was last executed during the months of August to December 2023 as part of the Wildfire Consequence v1 model development and validation.	Nathan Poon	4/22/2025	5/1/2025	5/1/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	5	Risk Methodology & Assessment	5.3.2	
137	OEIS	005	OEIS_005	9	No	OEIS_005_Q1	Regarding Top-Risk Transmission Circuits Table 5-9 (pp. 143 and pp. 170-171), PG&E's 2020-2028 Base WMP shows only distribution-level circuits. a. Provide the table to Table 5-5, Table 6-1, and Table 6-4 for the top-risk transmission-level circuit segments. b. Provide the total overall utility risk score for transmission-level circuits.	This response contains confidential material provided pursuant to the accompanying confidential information.	Nathan Poon	4/22/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_OEIS_005.pdf	0	No	5	Risk Methodology & Assessment	5.5.2	
138	SPD	003	SPD_003	1	No	SPD_003_Q1	On page 1 of PG&E's 2020-2028 WMP, PG&E mentions the Line Elimination Incentive Plan. a. Describe the plan, including when it would be used. b. Page 185 shows the decision tree for the LEP screening process – describe the screening process and explain how the screening process would determine if the LEP mitigation would be chosen versus when it would not be chosen. c. What is the average cost per customer and what is the expected future cost per customer? d. How many customers are PG&E targeting for the plan on the course of the 2026-2028 Wildfire Mitigation Plan? e. List out outcomes available to customers that do not participate in EIP. f. How does LEP relate to line removal as defined GH-12? g. Is there a cost/benefit ratio of removing the LEP program? Please provide a paragraph that demonstrates how the ratio was calculated.	This response contains confidential material provided pursuant to the accompanying confidential information.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.1	
139	SPD	003	SPD_003	2	No	SPD_003_Q2	PG&E's Figure 4-1.3.1-2 states EPSI combined with PSPIs removes 81.7% (18,012/19,579=81.7%) wildfire risk. Separately, PG&E's response in the first figure is part of "WMP-Discovery2028-2029_DR_OESR_001-Q2023" which is the same as the baseline 2023 version of WMP-Discovery2028-2029_DR_OESR_001-Q2023. PSPIs reduces 54% of the wildfire risk. Why is there an apparently discrepancy between the response of Part of "WMP-Discovery2028-2029_DR_OESR_001-Q2023" and Table PG&E-S.1-3 compared to PG&E's Figure 4-1.3.1-2?	The wildfire risk reduction values in WMP-Discovery2028-2029_DR_OESR_001-Q2023 are based on applying effectiveness values for EPSI and PSPI to the circuit segments. The circuit segments are implemented in the same way as the Wildfire Risk bond code and shows how the 81.7% and 54% numbers are calculated. Please note that the case and the tranche PG&E moved from using the enterprise model in the WMP tool because it was more accurate and had better results. The effectiveness values for the two methods are not 100% aligned, but I assume the differences is results.	Henry Sweet	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.1.3.2	
140	SPD	003	SPD_003	3	No	SPD_003_Q3	In Figure 4-1, what are the projected mitigations for each year through 2027? a. How were the projected mitigations, especially those beyond 2026, for the resiliency mitigations established?	The projected mitigations beyond 2026 were established by looking at historical performance as well as 2026-2028 planned mitigations for those resiliency mitigations and assuming a relatively flat unit execution across future years.	Henry Sweet	4/23/2025	5/2/2025	5/2/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.2.1	
141	SPD	003	SPD_003	4	No	SPD_003_Q4	For Figure 4-1 and the figures in Part of "WMP-Discovery2028-2029_DR_OESR_001-Q2023," what are the actual percentage values for each year? b. Are the baseline 2023 values for Wildfire Risk, PSPIs and EPSI risk? c. The projected mitigations for Part of "WMP-Discovery2028-2029_DR_OESR_001-Q2023" using absolute values of increased risk in dollar values. d. Explain the difference in projected mitigations for each year for wildfire risk (the first figure is the response to part (a) of "WMP-Discovery2028-2029_DR_OESR_001-Q2023.")?	Please see attached "WMP-Discovery2028-2029_DR_SPD_003-Q005Q001" for the projected mitigations.	Henry Sweet	4/23/2025	5/2/2025	5/2/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.2.1	
142	SPD	003	SPD_003	5	No	SPD_003_Q5	Compute the as-built conversion factor for projects in 2023 and 2024 between overhead lines to underground lines. Provide an explanation of the computation. See the computation provided in PG&E's response to "WMP-Discovery2023_DR_SPD_005-Q008" for example.	PG&E's WMP references the effectiveness of Underground All primary, overhead and underground hybrid conductors. The effectiveness of underground All primary, overhead and underground hybrid conductors is based on the as-built conversion factor for overhead lines to underground lines. The as-built conversion factor is the ratio of the miles of overhead lines to the miles of underground lines. The as-built conversion factor is determined by the ratio of the miles of overhead lines to the miles of underground lines.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.2.2	
143	SPD	003	SPD_003	6	No	SPD_003_Q6	For GH-04, provide a definition of the miles target and compare the definition to the target in the 2026-2028 WMP. For instance, is the target some combination of "the miles of primary overhead line to be replaced by underground lines" and "the miles of primary overhead line to be replaced by hybrid conductors?" The miles of underground primary lines to be installed = "the miles of underground primary, secondary and tertiary lines to be installed." The miles of underground hybrid lines to be installed = "the miles of underground hybrid conductors to be installed." PG&E proposes two forms of undergrounding (underground primary, and underground ad). Provide the number of miles of each form of undergrounding required to meet the target.	a. For any project with a combination of undergrounding and overhead hardening, the miles of overhead hardening and the miles of undergrounding will be recorded in GH-12. b. For any project with a combination of undergrounding and overhead hardening, the miles of overhead hardening and the miles of undergrounding will be recorded in GH-12.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	1	No	GH-04	GH-04	GH-04	
144	SPD	003	SPD_003	7	No	SPD_003_Q7	Explain how PG&E calculates the risk reduced when there is a combination of underground and covered conductor on a particular circuit segment. Clarify if there is a difference in the risk reduction is calculated if a primary covered conductor project, primary undergrounding project or a hybrid project is chosen.	Risk reduction is calculated based on the risk reduction of the individual components. Risk reduction is calculated based on the risk reduction of the individual components. Risk reduction is calculated based on the risk reduction of the individual components.	Henry Sweet	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pdfs/docs/strategy_and_safety/utility-preparedness-and-resilience/2028_SPD_003.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.2	

145	SPD	003	SPD_003	8	No	SPD_003_Q0	<p>Provide additional explanation on the discussion in section 9.2.2 under the heading, "Impacts on Likelihood and Consequence of Program Events." Please provide details on the assumption that the line would not be covered by PG&E's PSPPS and EPSS for these conductors.</p> <p>For circuit segments where there are multiple miles interrupted among undergrounded miles, is there a threshold for the amount of covered conductors? (i.e. if there is a 5-mile undergrounded segment with 10 miles of PSPPS and EPSS for these conductors, would the PSPPS event be triggered?)</p> <p>How many miles of overhead conductors from the 2023-2028 WMP where only the primary conductor was undergrounded, exclude how PG&E will use of PSPPS and EPSS.</p>	<p>Regarding PSPPS, see "Impacts on Likelihood and Consequence of Program Events" in the 2023-2028 WMP. The question below assumes the assumption that the line would not be covered by PG&E's PSPPS and EPSS for these conductors.</p> <p>For circuit segments where there are multiple miles interrupted among undergrounded miles, is there a threshold for the amount of covered conductors? (i.e. if there is a 5-mile undergrounded segment with 10 miles of PSPPS and EPSS for these conductors, would the PSPPS event be triggered?)</p> <p>How many miles of overhead conductors from the 2023-2028 WMP where only the primary conductor was undergrounded, exclude how PG&E will use of PSPPS and EPSS.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	8	Grid Design, Operations, and Maintenance	8.2.2
146	SPD	003	SPD_003	9	No	SPD_003_Q0	<p>The system target for GH04 is 270 miles for 2024. PG&E currently forecasted a target of 440 miles. Please provide the update to the system target for GH04 for 2025-2028 WMP.</p> <p>b. The WMP states the reduction is because the PG&E forecast being able to achieve the risk reduction in the WMP with less miles than previously forecasted. Provide a high-level justification for the justification provided in the WMP. Please also provide the risk reduction target for the risk reduction in the WMP.</p> <p>c. Provide the risk reduction in (b) calculated by the risk reduced based on the risk calculated in WORM v4.0 and the risk calculated in the 2023-2028 WMP. Please provide the risk reduction target for the WMP forecast in the 2023-2028 WMP.</p> <p>d. The WMP states "WORM v4.0 includes 5.5 miles of undergrounded conductors and 270 miles of overhead conductors." Please provide the updated forecast for WORM v4.0 miles and WORM v5 miles of hardening to be completed in 2025. Also provide how much of the updated forecast of WORM v4.0 miles and WORM v5 miles of hardening that PG&E forecast would be undergrounded to be completed by 2025.</p>	<p>The system target for GH04 is 270 miles for 2024. PG&E currently forecasted a target of 440 miles. Please provide the update to the system target for GH04 for 2025-2028 WMP.</p> <p>b. The WMP states the reduction is because the PG&E forecast being able to achieve the risk reduction in the WMP with less miles than previously forecasted. Provide a high-level justification for the justification provided in the WMP. Please also provide the risk reduction target for the risk reduction in the WMP.</p> <p>c. Provide the risk reduction in (b) calculated by the risk reduced based on the risk calculated in WORM v4.0 and the risk calculated in the 2023-2028 WMP. Please provide the risk reduction target for the WMP forecast in the 2023-2028 WMP.</p> <p>d. The WMP states "WORM v4.0 includes 5.5 miles of undergrounded conductors and 270 miles of overhead conductors." Please provide the updated forecast for WORM v4.0 miles and WORM v5 miles of hardening to be completed in 2025. Also provide how much of the updated forecast of WORM v4.0 miles and WORM v5 miles of hardening that PG&E forecast would be undergrounded to be completed by 2025.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	GH04	GH04	GH04
147	SPD	003	SPD_003	10	No	SPD_003_Q0	<p>In the 2024 QDR spatial data set, the polyines GH041 and GH042 are frequently overlaid on each other. Explain how to identify how many miles were undergrounded, covered conductors or removed, as well as how to determine which one is the primary conductor. Please provide the update to the system target for GH04 for 2025-2028 WMP.</p> <p>a. SPO assumed the feature in the data set which states "uplifted" and "covered" would distinguish between the two polyines. Please provide the update to the system target for GH04 for 2025-2028 WMP. Explain what completed miles is a given WMP year. What is "uplifted" and "covered" and why do they not add up to the completed miles?</p> <p>b. The length of the polyline added up to 270 miles for GH04 in the 2023-2028 WMP. Complete Date = All, but the length of the polyline is incomplete in the 2024 QDR. Explain why the length of the polyline is not equal to the 348 miles.</p> <p>c. Please provide how many miles of polyines – explain why polyines are not used since there is either a portion of a line being removed, cover conductors or undergrounded.</p>	<p>In the 2024 QDR spatial data set, the polyines GH041 and GH042 are frequently overlaid on each other. Explain how to identify how many miles were undergrounded, covered conductors or removed, as well as how to determine which one is the primary conductor. Please provide the update to the system target for GH04 for 2025-2028 WMP.</p> <p>a. SPO assumed the feature in the data set which states "uplifted" and "covered" would distinguish between the two polyines. Please provide the update to the system target for GH04 for 2025-2028 WMP. Explain what completed miles is a given WMP year. What is "uplifted" and "covered" and why do they not add up to the completed miles?</p> <p>b. The length of the polyline added up to 270 miles for GH04 in the 2023-2028 WMP. Complete Date = All, but the length of the polyline is incomplete in the 2024 QDR. Explain why the length of the polyline is not equal to the 348 miles.</p> <p>c. Please provide how many miles of polyines – explain why polyines are not used since there is either a portion of a line being removed, cover conductors or undergrounded.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	GH04	GH04	GH04
148	SPD	003	SPD_003	11	No	SPD_003_Q01	<p>Provide an update for full 2024 year data to "WMP_Discovery2023-2025_DR_SPD_019-Q012.pdf" and the supplemental response.</p>	<p>Provide an update for full 2024 year data to "WMP_Discovery2023-2025_DR_SPD_019-Q012.pdf" and the supplemental response.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	9	Vegetation Management and Inspections	9
149	SPD	003	SPD_003	12	No	SPD_003_Q01	<p>Provide the data in Table 1 through 3 for each of PG&E's 2023-2028 WMP planned Vegetation Management Programs and PG&E's 2023-2028 WMP. There should be one spreadsheet for each of the Vegetation Management programs and one for the WMP. Please provide the update to the system target for GH04 for 2023-2028 WMP. SPO expects the individual projects to be reported on to include:</p> <p>Table 4. List of Vegetation Management Programs 2023-2025 For the 2023-2028 WMPs, SPO expects the individual programs to be reported on to include: Table 4. List of Vegetation Management Programs 2026-2028</p>	<p>Provide the data in Table 1 through 3 for each of PG&E's 2023-2028 WMP planned Vegetation Management Programs and PG&E's 2023-2028 WMP. There should be one spreadsheet for each of the Vegetation Management programs and one for the WMP. Please provide the update to the system target for GH04 for 2023-2028 WMP. SPO expects the individual projects to be reported on to include:</p> <p>Table 4. List of Vegetation Management Programs 2023-2025 For the 2023-2028 WMPs, SPO expects the individual programs to be reported on to include: Table 4. List of Vegetation Management Programs 2026-2028</p>	Henry Sweat	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	1	No	9	Vegetation Management and Inspections	9
150	SPD	003	SPD_003	13	No	SPD_003_Q01	<p>Complete the Tables 1 through 3 at the systemwide and HFTD scale for all of PG&E's Vegetation Management programs. The total number of trees removed systemwide and separately the total number of trees removed in the HFTD.</p>	<p>Complete the Tables 1 through 3 at the systemwide and HFTD scale for all of PG&E's Vegetation Management programs. The total number of trees removed systemwide and separately the total number of trees removed in the HFTD.</p>	Henry Sweat	4/23/2025	5/7/2025	5/7/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	1	No	9	Vegetation Management and Inspections	9
151	SPD	003	SPD_003	14	No	SPD_003_Q14	<p>For each vegetation management program in the 2023-2028 WMP, specify if the Quality Assurance and Quality Controls assessments include verification of the height and distance to the conductor of each single spike vegetation point specified for removal, and each vegetation spike point listed as an inventory tree.</p>	<p>For each vegetation management program in the 2023-2028 WMP, specify if the Quality Assurance and Quality Controls assessments include verification of the height and distance to the conductor of each single spike vegetation point specified for removal, and each vegetation spike point listed as an inventory tree.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	9	Vegetation Management and Inspections	9
152	SPD	003	SPD_003	15	No	SPD_003_Q15	<p>Provide PG&E's latest estimate for the number of single trees in PG&E's HFTD with an explanation of how this estimate was obtained. Discuss PG&E's confidence in the estimate.</p>	<p>Provide PG&E's latest estimate for the number of single trees in PG&E's HFTD with an explanation of how this estimate was obtained. Discuss PG&E's confidence in the estimate.</p>	Henry Sweat	4/23/2025	4/29/2025	4/29/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_SPD_003.xls	0	No	9	Vegetation Management and Inspections	9
153	MGRA	005	MGRA_005	1	No	MGRA_005_Q0	<p>Relatives to Data Request Requirements WMP_Discovery2023-2025_DR_OESB_001-Q022 MGRA-5-1 For the technologies listed in Part 1 in response to the CEIS data request MGRA-5-2 For the technologies listed in Part 2 in response to the CEIS data request b. The miles of overhead conductors to be monitored by these technologies in the systemwide and HFTD. c. The fractional coverage of the overhead conductor system. d. The estimated cumulative risk reduction due to the deployment of that technology.</p>	<p>Relatives to Data Request Requirements WMP_Discovery2023-2025_DR_OESB_001-Q022 MGRA-5-1 For the technologies listed in Part 1 in response to the CEIS data request MGRA-5-2 For the technologies listed in Part 2 in response to the CEIS data request b. The miles of overhead conductors to be monitored by these technologies in the systemwide and HFTD. c. The fractional coverage of the overhead conductor system. d. The estimated cumulative risk reduction due to the deployment of that technology.</p>	Joseph Mitchell	4/25/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/regions-and-safes/veg-mgmt/programmes-and-support/2023-2028_MGRA_005.xls	0	No	10	Situational Awareness and Forecasting	10.4/10.31

191	SPD	004	SPD_004	27	No	SPD_004_Q27	<p>List all the feasibility constraints that are relevant to the decision trees found in Figures PGAE-6.2.1, PGAE-6.2.2, and PGAE-6.2.3.</p> <p>a. How are these feasibility constraints operationalized within these decision trees?</p> <p>b. Are these feasibility constraints quantified?</p> <p>c. How are these feasibility constraints addressed in PGAE's Cost Benefit Analysis?</p>	<p>PGAE objects that the request is overbroad because there are many potential feasibility constraints depending on the specific circumstances of a given case. Due to the nature of the project, there are many potential feasibility constraints such as the need for undergrounding, covered conductor, and line removal projects. It is impractical, if not impossible, to list every potential feasibility constraint. PGAE notes that before attempts to thoroughly set forth common feasibility constraints that significantly impact the cost benefit analysis, it would be best to have a discussion with the ALJ.</p> <p>Below are primary examples of feasibility constraints considered within the scoping process:</p> <ul style="list-style-type: none"> • High-voltage dependencies and permitting requirements from federal, state and local agencies. • Soil issues such as granular rock, waterway crossings, bio, cultural and environmental. • Environmental, such as the need for retaining walls, grade changes, and vegetation removal. • Addressing constraints that are known to exist in the project scope. • Construction and restoration workforce such as third party, helicopter sets, terrain, weather, etc. • External and customer engagement limitations to build the scope. • Contractability of alternatives whether it be due to baseline or permitting. <p>a. Feasibility constraints are operationalized within the decision tree starting with a high-level dependency on the type of project. The decision tree starts with a preliminary proposed scope that we compare to available alternatives. This preliminary proposed scope is then refined based on the specific circumstances a combination of field and desktop review targeted at the locations proposed for the line. The decision tree is then refined again based on the feedback from the proposed scope may be modified to ensure contractability and to address dependencies that are identified during the process.</p> <p>b. Feasibility constraints influence the construction route of projects. For example, if there is steep terrain or significant hard rock, the route will be adjusted based on the cost of mitigating those challenges. The cost of mitigation is included in the cost benefit analysis, as a cost/benefit cost modifier, which are then included in the cost benefit analysis.</p> <p>To date, the CPUC has not issued any formal guidance on what constitutes feasible. We do not rely on any determination by PGAE or the CPUC regarding a risk tolerance threshold. Instead, we rely on our professional judgment and experience developing our mitigation strategies. We employ our professional experience, expertise, and prudent judgment to determine what is feasible. We believe that the risk tolerance threshold is not valid; that these risk levels are "intolerable." As the ALJ ruling correctly points out, PGAE's approach to setting risk tolerance thresholds is not consistent with the CPUC's responsibility. We believe, however, that understanding the potential for catastrophic WMR (see Figures PGAE-6.2.1, PGAE-6.2.2, and PGAE-6.2.3) is critical to the safety of the public.</p>	Eddie Schmidt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
192	SPD	004	SPD_004	28	No	SPD_004_Q28	<p>On page 124 in the 2026-2028 Base WMP, PGAE states that it has adopted a consistent treatment of risk tolerance thresholds across its three decision trees. The following statement is taken from the 2024-2026 RAMP Proceeding (A-24-5-008). PGAE was ordered to not make "risk tolerance" to justify risk mitigation activities in the 2027 GRC Rate Case. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent in light of this order.</p> <p>a. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent in light of this order.</p> <p>b. Explain how a specific risk tolerance was used as a justification for selecting those mitigation strategies.</p> <p>c. Explain how a specific risk tolerance was placed in the decision trees found in Figures PGAE-6.2.1, PGAE-6.2.2, and PGAE-6.2.3 in the 2026-2028 Base WMP.</p> <p>d. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent with the ALJ's Ruling.</p> <p>e. Explain any other decision-making procedure, protocol, tool or other approach where a treatment of risk tolerance was integrated into PGAE's mitigation selection process.</p> <p>f. Explain how these approaches will change in light of the ALJ's Ruling.</p>	<p>On page 124 in the 2026-2028 Base WMP, PGAE states that it has adopted a consistent treatment of risk tolerance thresholds across its three decision trees. The following statement is taken from the 2024-2026 RAMP Proceeding (A-24-5-008). PGAE was ordered to not make "risk tolerance" to justify risk mitigation activities in the 2027 GRC Rate Case. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent in light of this order.</p> <p>a. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent in light of this order.</p> <p>b. Explain how a specific risk tolerance was used as a justification for selecting those mitigation strategies.</p> <p>c. Explain how a specific risk tolerance was placed in the decision trees found in Figures PGAE-6.2.1, PGAE-6.2.2, and PGAE-6.2.3 in the 2026-2028 Base WMP.</p> <p>d. Explain how PGAE's approach to addressing risk tolerance thresholds is consistent with the ALJ's Ruling.</p> <p>e. Explain any other decision-making procedure, protocol, tool or other approach where a treatment of risk tolerance was integrated into PGAE's mitigation selection process.</p> <p>f. Explain how these approaches will change in light of the ALJ's Ruling.</p>	Eddie Schmidt	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	5	Risk Methodology & Assessment	5
193	SPD	004	SPD_004	29	No	SPD_004_Q29	<p>Provide a detailed explanation of how PGAE addresses tail risk in its risk models presented in the 2026-2028 Base WMP?</p> <p>a. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>b. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>c. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>d. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p>	<p>Provide a detailed explanation of how PGAE addresses tail risk in its risk models presented in the 2026-2028 Base WMP?</p> <p>a. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>b. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>c. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p> <p>d. Is tail risk impacted by PGAE's approach to addressing additive tail risk? If so, how? If not, why not?</p>	Eddie Schmidt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	5	Risk Methodology & Assessment	5.4
194	SPD	004	SPD_004	30	No	SPD_004_Q30	<p>Provide a detailed explanation of how PGAE applies the risk scaling function in its risk models presented in the 2026-2028 Base WMP?</p> <p>a. Is the risk scaling function applied to the WORM? If so, how? If not, why not?</p> <p>b. Is the risk scaling function applied to the WMRM? If so, how? If not, why not?</p> <p>c. Is the risk scaling function applied to the WTRM? If so, how? If not, why not?</p>	<p>Provide a detailed explanation of how PGAE applies the risk scaling function in its risk models presented in the 2026-2028 Base WMP?</p> <p>a. Is the risk scaling function applied to the WORM? If so, how? If not, why not?</p> <p>b. Is the risk scaling function applied to the WMRM? If so, how? If not, why not?</p> <p>c. Is the risk scaling function applied to the WTRM? If so, how? If not, why not?</p>	Eddie Schmidt	4/30/2025	5/30/2025	5/30/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	5	Risk Methodology & Assessment	5.4
195	SPD	004	SPD_004	31	No	SPD_004_Q31	<p>On page 124 in the 2026-2028 Base WMP, PGAE states "PGAE's Investment Planning group leverages the CBRs and the RDP to prioritize the proposed investments to achieve risk reduction at a reasonable cost." Explain how PGAE leverages CBRs to prioritize investments in risk reduction?</p> <p>a. List the steps PGAE takes to support the RDP-CBR leverage to prioritize investments in risk reduction.</p> <p>b. Explain how PGAE leverages non-CBR aspects of the RDP to prioritize investments in risk reduction.</p> <p>c. Define "reasonable cost". Explain how PGAE incorporates "reasonable cost" as a constraint in its models.</p>	<p>On page 124 in the 2026-2028 Base WMP, PGAE states "PGAE's Investment Planning group leverages the CBRs and the RDP to prioritize the proposed investments to achieve risk reduction at a reasonable cost." Explain how PGAE leverages CBRs to prioritize investments in risk reduction?</p> <p>a. List the steps PGAE takes to support the RDP-CBR leverage to prioritize investments in risk reduction.</p> <p>b. Explain how PGAE leverages non-CBR aspects of the RDP to prioritize investments in risk reduction.</p> <p>c. Define "reasonable cost". Explain how PGAE incorporates "reasonable cost" as a constraint in its models.</p>	Eddie Schmidt	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	3	Overview of WMP	3.6
196	SPD	004	SPD_004	32	No	SPD_004_Q32	<p>On page 135 in the 2026-2028 Base WMP, PGAE explains that SME Judgement is integrated into the process of mitigation selected through "cross-functional working groups." Provide a detailed explanation of how PGAE integrates the SME's role in the cross-functional working group.</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 retained?</p> <p>c. Provide an example of each type of document or other kinds of information that can be used to support the cross-functional working group's decision about which mitigation should be selected within a given circuit segment?</p> <p>d. Explain how the SME's use of these inputs to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.</p>	<p>On page 135 in the 2026-2028 Base WMP, PGAE explains that SME Judgement is integrated into the process of mitigation selected through "cross-functional working groups." Provide a detailed explanation of how PGAE integrates the SME's role in the cross-functional working group.</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 retained?</p> <p>c. Provide an example of each type of document or other kinds of information that can be used to support the cross-functional working group's decision about which mitigation should be selected within a given circuit segment?</p> <p>d. Explain how the SME's use of these inputs to support the cross-functional working group's decision about which mitigation should be selected at a given circuit segment.</p>	Eddie Schmidt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.1.3
197	SPD	004	SPD_004	33	No	SPD_004_Q33	<p>On page 125 in the 2026-2028 Base WMP, PGAE explains that the cross-functional working groups leverage both technical risk assessments and qualitative operational insights. Provide a list of the qualitative operational insights that are leveraged by the cross-functional working groups. Describe how each of these qualitative operational insights can contribute to the mitigation selection.</p> <p>a. Provide an example. Explain how and why each of these qualitative operational insights can contribute to the mitigation selection on circuit segment CORNING 11018152.</p> <p>b. Describe the steps in the decision trees-reviews these qualitative operational insights are integrated into the decision trees.</p> <p>c. Explain the steps in the decision trees-reviews these qualitative operational insights are integrated into the decision trees.</p> <p>d. In what ways does the decision trees-reviews these qualitative operational insights? How is that performed?</p>	<p>On page 125 in the 2026-2028 Base WMP, PGAE explains that the cross-functional working groups leverage both technical risk assessments and qualitative operational insights. Provide a list of the qualitative operational insights that are leveraged by the cross-functional working groups. Describe how each of these qualitative operational insights can contribute to the mitigation selection.</p> <p>a. Provide an example. Explain how and why each of these qualitative operational insights can contribute to the mitigation selection on circuit segment CORNING 11018152.</p> <p>b. Describe the steps in the decision trees-reviews these qualitative operational insights are integrated into the decision trees.</p> <p>c. Explain the steps in the decision trees-reviews these qualitative operational insights are integrated into the decision trees.</p> <p>d. In what ways does the decision trees-reviews these qualitative operational insights? How is that performed?</p>	Eddie Schmidt	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/csg/docs/decisions_and_safety/dec-004/proposal-and-support/2024-SPN-004.pdf	0	No	6	Wildlife Mitigation Strategy Development	6.1.3

198	SPD	004	SPD_004	34	No	SPD_004_Q34	<p>On page 125 in the 2026-2028 Base WMP, PG&E explains that when selecting a mitigation it considers “the relative risk of each local factor by itself.” a. Provide a list of local factors the PG&E would consider when selecting a mitigation. b. Does any one local factor listed by PG&E have a higher risk value than the others from the final list? If so, explain why. c. Explain how each of these local factors can inform mitigation selection. d. Describe how each of these local factors are integrated into the decision tree found in Figure 12-11, PG&E-8.2.1, and PG&E-8.2.5 in the 2026-2028 Base WMP. e. Which of the steps in the decisiontree removes these local factors? If so, what was performed?</p>	<p>a. When a mitigation alternative is evaluated at the circuit segment level, all of the decision trees are considered for the circuit segment. PG&E uses local factors (that are unique to that object) to determine if they will be the same as the primary factors described in the RAMP. The RAMP factors are the primary factors used for the cost benefit analysis (CBA) of the circuit segment measurement and included below. The primary local factors considered when selecting a mitigation include items listed below: Although the CBA is not used to select a mitigation, it is used to determine the cost of mitigations and the cost of mitigation when selecting a mitigation. It may be used as an evaluation tool to determine the cost of mitigations and the cost of mitigation when selecting a mitigation. i. High priority factors ii. Moderate priority factors iii. Low priority factors iv. Ingress/exgress concerns and major historic fire data identified by the Public Safety Specialist (PSS) v. Construction management/feasibility assessment, which accounts for local pedagogy, including presence of hard rock, sleep terrain, and water crossings. vi. Environmental considerations, such as sensitive habitat: 1. Cultural or historical considerations, such as tribal lands. 2. Other environmental considerations, such as rare species habitat. 3. Geologic factors, such as landslides, soil stability, and erosion. 4. Water availability and water quality. 5. Wildlife habitat, including rare and threatened species. 6. Cultural or historical considerations, such as tribal lands. 7. Geologic factors, such as landslides, soil stability, and erosion. 8. Water availability and water quality. 9. Wildlife habitat, including rare and threatened species. 10. Construction management/feasibility assessment, which accounts for local pedagogy, including presence of hard rock, sleep terrain, and water crossings. 11. Environmental considerations, such as sensitive habitat: 12. Cultural or historical considerations, such as tribal lands. 13. Geologic factors, such as landslides, soil stability, and erosion. 14. Water availability and water quality. 15. Wildlife habitat, including rare and threatened species.</p> <p>Eddie Schmit</p>	4/30/2025	5/1/2025	5/1/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6.13
199	SPD	004	SPD_004	35	No	SPD_004_Q35	<p>On page 133 in the 2026-2028 Base WMP, PG&E states that it looks at the “highest risk circuit segments” to determine where to target the work included in the WMP. a. What does PG&E mean by “highest risk circuit segments”? b. Does PG&E use the Lofte and Cole values of these circuit segments when determining the timing of implementing mitigations on these “highest risk circuit segments”? If so, how? If not, why not?</p>	<p>a. PG&E is providing a response to this question for system hardening and undergrounding. PG&E extracts system hardening and undergrounding based on the risk model ranking of the highest risk circuit segments. Other WMP programs reference the risk model ranking of the highest risk circuit segments for system hardening and undergrounding. 1. Circuit segments are selected for scoping from 100 based on ignition risk rank. Certain circuit segments may be excluded, if, for example, the segment is located in a low-risk area or has been identified as a low-priority area for system hardening and undergrounding. The analysis of projects in the same order that scoping is completed. Once a project has completed scoping and other pre-construction activities (e.g., design, permitting and permitting) are complete, PG&E will begin construction as soon as practicable. When prioritizing projects, PG&E uses the density of risk, such as risk per mile, to rank circuit segments 1=100. PG&E then prioritizes projects through the design/permitting and permitting process if required when projects can be implemented, such as through the following: 1. Construction of new transmission lines. 2. Construction of new substations. 3. Construction of new distribution lines. 4. Construction of new distribution substations. 5. Environmental considerations including sensitive habitats: 6. Cultural or historical considerations including tribal lands. 7. Geologic factors, such as landslides, soil stability, and erosion. 8. Water availability and water quality. 9. Wildlife habitat, including rare and threatened species. 10. Construction management/feasibility assessment, which accounts for local pedagogy, including presence of hard rock, sleep terrain, water crossings. 11. Environmental considerations, such as sensitive habitat: 12. Cultural or historical considerations, such as tribal lands. 13. Geologic factors, such as landslides, soil stability, and erosion. 14. Water availability and water quality. 15. Wildlife habitat, including rare and threatened species.</p> <p>Eddie Schmit</p>	4/30/2025	5/1/2025	5/1/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	0	No	5	Risk Methodology & Assessment	5.52
200	SPD	004	SPD_004	36	No	SPD_004_Q36	<p>Throughout the 2026-2028 Base WMP, PG&E uses the terms system hardening, grid hardening, and undergrounding. Explain what these terms mean. Explain what the difference is between system hardening, grid hardening, and undergrounding. Explain what the difference is between system hardening, distribution covered conductor and distribution line removal. Explain why PG&E uses three different terms to describe this category of mitigation. a. Are there differences between these terms? If so, explain.</p>	<p>Term as defined in the 2026-2028 Base WMP, R0, April 6, 2025. Resilience Mitigation: Resilience Mitigation describes one of the four categories of mitigations that support PG&E’s foundational framework of risk-informed decision-making designed to minimize the potential for wildfire to impact the electric system. Resilience Mitigations are critical to permanently reducing wildfire risk, minimizing negative aspects of PSPS and FRSR events, and protecting the electric system from future events. System resilience mitigations designed to reduce ignition risk by changing how ignitions occur and spread are described in Section 8.2.2 of the WMP (pg. 129). Resilience Mitigation describes a broader category of mitigations than just system hardening. Resilience Mitigation includes system hardening, system hardening, distribution covered conductor, distribution line removal, it also includes non-system hardening mitigations, such as distribution pole replacement and replacement of conductors, and the reduction of distribution 2026-2028 Base WMP, R0, Figure PG&E-4.13-3.1. System Hardening: System hardening describes two system hardening initiatives: 1. Construction of new transmission lines. 2. Construction of new substations. 3. Construction of new distribution lines. 4. Construction of new distribution substations. Grid Hardening: WMP Section 8.2.2 is called “Grid Hardening.” PG&E uses the term “grid hardening” in our Section 8.2.2 narrative to align to the title of the WMP Section 8.2.2 as specified by Energy Safety at Area for Contra Costa Improvement (ACI) PG&E-251-03, Conformance Statement for the 2026-2028 Grid Hardening Program. Grid hardening is also referred to as “grid hardening and system hardening” in the WMP. The term “grid hardening” is also referred to as “grid hardening and system hardening” in the WMP. The key distinction among the three terms PG&E uses in the WMP is that Resilience Mitigation describes a broader category of mitigations than just system hardening or system hardening. Undergrounding: 1. PG&E uses the term “time scale” in the question could be interpreted in multiple ways. In our response, we address two possible interpretations: (1) the time scale of the analysis to determine the cost of mitigations and the cost associated with the application of the results of the analysis. 2. The time scale of the analysis to determine the cost of mitigations and historical or forecast data for the OEM activity. The timescales considered in the underlying data vary due to the availability of data for each of the OEM cost types (e.g., historical data for the 2026-2028 GRC forecast, historical data for the 2026-2028 GRC forecast). Undergrounding can reduce some OEM costs over a multi-year period. For example, reduced maintenance costs for poles and insulators, Enhanced Power Safety Settings (EPSS) and Public Safety Reliability System (PSRS) costs. 3. The time scale of the analysis is tied to the statement is one year. This statement refers to the time scale of the analysis to determine the cost of mitigations and maintenance (OEM) activities. The assumption is that the average annual cost of mitigations and maintenance is constant over the one-year period for undergrounding. 4. Please see the WMP, 2026-2028 DR, SPD-004-Q37A(4)(d) – which outlines examples of expected OEM costs as an average annual cost for a type of undergrounding project compared to an unhardened system. The statement is referring to the time scale of the analysis to determine the cost relative to a hypothetical baseline assumption for the cost of operations and maintenance. The cost of operations and maintenance is the cost of the system in undergrounded, the average annual avoided costs will increase. This statement is referring to the time scale of the analysis to determine the cost of mitigations and undergrounding that will be included in the final Wildfire Benefit Cost Analysis (WBCA) for the 2026-2028 GRC. b. The total OEM avoided costs are not effected by the time period considered. c. It is assumed that the avoided costs are constant over the time period of the analysis. d. It is assumed that the avoided costs are constant over the time period of the analysis. e. It is assumed that any avoided costs are on an average annual cost per mile. f. It is assumed that any avoided costs are on an average annual cost per mile. g. It is assumed that any avoided costs are on an average annual cost per mile. h. It is assumed that any avoided costs are on an average annual cost per mile. i. It is assumed that any avoided costs are on an average annual cost per mile. j. It is assumed that any avoided costs are on an average annual cost per mile. k. It is assumed that any avoided costs are on an average annual cost per mile. l. It is assumed that any avoided costs are on an average annual cost per mile. m. It is assumed that any avoided costs are on an average annual cost per mile. n. It is assumed that any avoided costs are on an average annual cost per mile. o. It is assumed that any avoided costs are on an average annual cost per mile. p. It is assumed that any avoided costs are on an average annual cost per mile. q. It is assumed that any avoided costs are on an average annual cost per mile. r. It is assumed that any avoided costs are on an average annual cost per mile. s. It is assumed that any avoided costs are on an average annual cost per mile. t. It is assumed that any avoided costs are on an average annual cost per mile. u. It is assumed that any avoided costs are on an average annual cost per mile. v. It is assumed that any avoided costs are on an average annual cost per mile. w. It is assumed that any avoided costs are on an average annual cost per mile. x. It is assumed that any avoided costs are on an average annual cost per mile. y. It is assumed that any avoided costs are on an average annual cost per mile. z. It is assumed that any avoided costs are on an average annual cost per mile.</p> <p>Eddie Schmit</p>	4/30/2025	5/6/2025	5/6/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	0	No	8	Grid Design, Operations, and Maintenance	8
201	SPD	004	SPD_004	37	No	SPD_004_Q37	<p>On page 136 in the 2026-2028 Base WMP, PG&E states “For many of the mitigation programs, cost risk is the primary driver of prioritization.” List the mitigation programs where wildfire risk is not the primary driver of prioritization. a. For each mitigation program in this list, explain what is the primary driver of prioritization and why.</p>	<p>a. Eddie Schmit</p>	4/30/2025	5/9/2025	5/9/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	1	No	8	Grid Design, Operations, and Maintenance	8.22
202	SPD	004	SPD_004	38	No	SPD_004_Q38	<p>On page 136 in the 2026-2028 Base WMP, PG&E states “For many of the mitigation programs, cost risk is the primary driver of prioritization.” List the mitigation programs where wildfire risk is not the primary driver of prioritization. a. For each mitigation program in this list, explain what is the primary driver of prioritization and why.</p>	<p>a. Eddie Schmit</p>	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	0	No	5	Risk Methodology & Assessment	5
203	SPD	004	SPD_004	39	No	SPD_004_Q39	<p>For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an “Activity-Efficiveness/Wildfire Risk” value for each activity listed. However, for all of these activities PG&E did not provide Cost/Benefit Ratio (CBR) values for each activity listed. If these calculations of CBR from what was submitted in PG&E’s 2024 RAMP, add a column to Table 6-3 for all activities listed in the WMP. Add the Initiative Activity Tracking ID as a column in the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.</p>	<p>a. The following table covers 2026-2028 program Cost-Benefit Ratios (CBR) value (unless otherwise noted) from the enterprise risk models and investment planning processes to be submitted as part of May 2027 GRC filing. The two transmission programs (transmission segment replacement and short splice installation) cost/benefit scores are currently unavailable and will be provided later. b. The table below compares the RAMP CBRs and CBMs provided in subpart (a). The original CBR submitted in Table 6-3 are listed in the first column. The revised CBRs and CBMs provided in subpart (b) are listed in the second column. The revised CBMs provided in subpart (b) from PG&E’s finalized review and analysis to be submitted in our May filing of the 2027 GRC using Table 6-3 are listed in the third column. c. Reduction driven by higher percentage of pgs work that has a lower CBR value when compared to non-pg capital and expense projects d. New program for 2027 GRC e. Increase driven by a lower estimated unit cost of work and refreshed outage to ignition ratio when compared to RAMP filing f. Risk Reduction from RAMP to GRC is lower while costs remained relatively the same g. Increase driven by the exclusion of secondary and service line scope h. Reduction driven by the increases in allocated costs led to PSSPs i. Reduction driven by lower FRRSS aftereffects</p> <p>Eddie Schmit</p>	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/ssp/docs/outage-and-safety/risk-management-and-support/2026-2028-base-wmp.pdf	0	No	6	Wildfire Mitigation Strategy Development	6

203	SPD	004	SPD_004	39(x)	Yes	SPD_004_Q29(x)	<p>For Table 5-3 in the 2020-2028 Base WMP, PG&E provided an “Activity Effectiveness-Mitigation Risk” value for each activity listed. However, for six of these activities PG&E did not provide Cost Benefit Ratios. a. Provide the Cost-Benefit Ratios for each of these activities as required by D.22-12-027.</p> <p>b. Explain why the Cost-Benefit Ratios for all activities listed in the WMP, Add the Initiative Activity Tracking ID as a column to the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.</p>	<p>a. This table has been updated to include the two transmission programs (conductor segment replacement and shunt splice installation) cost benefit scores. Additionally, the PSPS and EPSS CBR were updated as an error was noted in the original submission.</p> <p>WMP activity name Cost Benefit Score - Overall Risk (2020-2028) Cost Benefit Score - Wildfire Risk (2020-2028) Cost Benefit Score - Outage Program Risk (2020-2028) Transmission - Shunt Splice Installation 25.3 4.1 <1 -16.5 PG&E (2020-2028 CBR) 33.8 3.1 -1.4 -4.3</p> <p>WMP activity name Cost Benefit Score - Overall Risk (2020-2028) Cost Benefit Score - Wildfire Risk (2020-2028) Cost Benefit Score - Outage Program Risk (2020-2028) Transmission - Shunt Splice Installation 30.43 26.86 2.07 Transmission - Conductor Segment Replacement 5.43 3.93 1.5</p>	Eddie Schmit	4/30/2025	5/21/2025	5/21/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6
204	SPD	004	SPD_004	40	No	SPD_004_Q40	<p>On page 152 of the 2020-2028 Base WMP, PG&E provides an explanation for how it calculated “Consequence” values. The “Consequence” value is the aggregated baseline risk value and includes underground. This is why the sum of the “Dr. 100%” and “Dr. 200%” values is \$19.424 Million. Explain why this value is different from the \$19.576 Million expressed in Figure 6-13.2-1.</p> <p>a. Explain why the PSPS and EPSS values here are presented as “Sub” but in Figure 6-13.2-1 are presented as “Consequence.”</p> <p>b. Explain why the value of Wildfire Risk (Dr. Tx, Sub) is different, but the values for PSPS and EPSS Risk on page 152 remain exactly the same as the values for PSPS and EPSS Consequence in Figure 6-13.2-1 for the same risk type.</p>	<p>The value expressed in Figure 6-13.2-1 is the aggregated baseline risk value and includes underground. This is why the sum of the “Dr. 100%” and “Dr. 200%” values is \$19.424 Million. Explain why this value is different from the \$19.576 Million expressed in Figure 6-13.2-1.</p> <p>a. “Consequence” in Figure 6-13.2-1 means the total consequence of all events which represents the same value as “Risk” on page 152. The “Consequence” value is the aggregated baseline risk value and includes underground. This is why the sum of the “Dr. 100%” and “Dr. 200%” values is \$19.424 Million. Explain why this value is different from the \$19.576 Million expressed in Figure 6-13.2-1 as such, the words Risk and Consequence are used interchangeably from page 152 to Figure 6-13.2-1. b. The “Sub” value of Wildfire Risk (Dr. Tx, Sub) is different, but the values for PSPS and EPSS Risk on page 152 remain exactly the same as the values for PSPS and EPSS Consequence in Figure 6-13.2-1 for the same risk type.</p>	Eddie Schmit	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.13
205	SPD	004	SPD_004	41	No	SPD_004_Q41	<p>On page 153 of the 2020-2028 Base WMP, PG&E describes the Activity Effectiveness – Wildfire Risk calculation and notes that a study was conducted with subject matter experts (SMEs) who were asked to rate the effectiveness of various mitigation activities. Explain what the values represent regarding 2,000 future models.</p> <p>a. How many SMEs participated in the study?</p> <p>b. Provide a list of the expertise for each SME that participated in this study.</p> <p>c. Explain why the results of the study were submitted to the WMP, Add the Initiative Activity Tracking ID as a column to the completed Table. Present the completed version of Table 6-3 in an Excel spreadsheet.</p> <p>d. Provide a narrative explanation of the effectiveness of these activities and how SMEs were asked to fit it out.</p> <p>e. Describe what is meant by categorical level of effectiveness.</p> <p>f. Explain how the scale of 1 to 100 percent relates to the effectiveness rating for the SME responses to each future model? If so, provide a table that displays the mean, median, and standard deviation for the SMEs responses to each future model.</p> <p>g. Explain the meaning of the questionnaire about the effectiveness of these activities against the future models.</p> <p>h. Provide a copy of the results of the study PG&E notes on page 153 in the 2020-2028 Base WMP.</p>	<p>a. Approximately 3 SMEs from the Grid Design team participated in the study.</p> <p>b. The study was conducted with subject matter experts (SMEs) who were asked to rate the effectiveness of various mitigation activities. The study was not required for the completion of the study.</p> <p>c. The results of the study were submitted to PG&E as “WMP-Discovery2020-2028_DR_SPD_004-Q29(154x17).xlsx” are the outputs from the mitigation effectiveness study. The outputs include the effectiveness of each mitigation activity considering various combinations of outage cause.</p> <p>d. The questionnaire listed several combinations of outage cause, supplemental table, and mitigation activity. The SMEs were asked to rate the effectiveness of each mitigation activity. SMEs were asked to assign a level of effectiveness such as “None”, “Medium”, or “High”.</p> <p>e. Table 6-1 shows the results of the WMP-Discovery2020-2028 WMP as an example of this analysis.</p> <p>f. Categorical level of effectiveness refers to a qualitative description of the effectiveness of a mitigation activity. It is based on the effectiveness of combinations of the cause, supplemental cause, equipment affected, and equipment removed.</p> <p>g. The scale used by SMEs to respond to the questionnaire is described in PG&E’s WMP-Discovery2020-2028 DR SPD 004-Q29(154x17).xlsx.</p> <p>h. The scale used by SMEs to respond to the questionnaire is described in PG&E’s WMP-Discovery2020-2028 DR SPD 004-Q29(154x17).xlsx.</p> <p>i. All = 100 percent effect – Assumes no option exists. Very High = 90 percent effect – Assumes a high level of effectiveness most option concerns, but still leaves a potential for option. High = 60 percent effect – Assumes a moderate level of effectiveness for option concern. Medium = 40 percent effect – Less probable option reduction for an item. Low = 10 percent effect – No option exists.</p>	Eddie Schmit	4/30/2025	5/8/2025	5/8/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.13
206	SPD	004	SPD_004	42	No	SPD_004_Q42	<p>Related to the explanation of the Cost Benefit Ratios described on pages 154-155 in the 2020-2028 Base WMP, provide an explanation of how PG&E addressed “discounting of inflation”.</p> <p>a. If so, explain which scenario and why was chosen.</p> <p>b. Explain why inflation is not. Also explain how PG&E addresses 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 effect of inflation is incorporated by multiplying values by the inflation rate to obtain nominal future values before discounting. The real discount rate is the rate of interest that would result in the same present value as a nominal discount rate resulting from these operations is equivalent to discounting by a real discount rate evaluated as $(1 + i)(1 - r) = 1$.</p> <p>PG&E utilized the “All-in” Weighted Average Cost of Capital (ATWACC) as the nominal discount rate. The discounting in present value evaluations is done using the ATWACC. The ATWACC is the weighted average of the cost of capital for the company. The nominal discount rate in alignment with PG&E’s current Enterprise Risk Model evaluations, which employ the ATWACC to be revised to reflect the revised base rates (0.035 percent) as the nominal discount rate. PG&E chose to use ATWACC because it reflects the company’s overall cost of capital and is a more accurate way to discount cash flows than a single discount rate as well as the cost in the denominator because benefits (WMP-Discovery2020-2028 DR SPD 004-Q29(154x17).xlsx).</p> <p>monetized based on willingness to pay (utility), marketplacement costs (financial, gas reliability), or both (electric reliability).</p>	Eddie Schmit	4/30/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	3	Overview of WMP	3.6
207	TURN	004	TURN_004	1	No	TURN_004_Q01	<p>Regarding Table 5-5 on page 103 and PG&E’s risk prioritization, why does PG&E prioritize the risk of the 2020-2028 WMP over the 2018-2028 WMP? Does PG&E agree that risk per mile of each CTP2 is a more accurate way to capture the risk of each CTP2 relative to each other? Please explain why or why not.</p>	<p>Table 5-5 is a list of CTPs with the highest overall utility risk in PG&E’s service territory; however, PG&E does not provide risk prioritization based on this table. PG&E typically prioritizes work based on the normalized risk, or risk per mile. PG&E agrees that risk per mile is a more accurate way to capture the risk of each CTP2 relative to each other. PG&E also recognizes the importance of overall utility risk per mile.</p>	A Meille Fall-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	5	Risk Methodology & Assessment	5
208	TURN	004	TURN_004	2	No	TURN_004_Q2	<p>Regarding Table 6-1-3 on page 128:</p> <p>a. Why does PG&E believe that the risk result is 95% effectiveness as opposed to 100% effectiveness?</p> <p>b. Are these numbers undercooked? Please provide an explanation of the difference between the two numbers.</p> <p>c. PG&E provides the combined mitigation effectiveness of PSPS and EPSS. Please provide supporting calculations/assumptions in Excel.</p>	<p>A. Risk/Generation EEE is 100% effective.</p> <p>B. Risk and systems typically serve areas through low voltage overhead lines.</p> <p>Most of high voltage overhead lines are removed, are not used for mitigation activities, and are not considered in the risk prioritization process, resulting in approximately 95% reduction of the overall wildfire risk. The absolute reduction in risk is dependent on the number of lines removed. The risk reduction is proportional to the number of lines removed.</p> <p>In the elimination of all ignition lines, or 100% effectiveness, since no source for ignition would be available, the risk would be reduced to zero.</p> <p>b. Based on Table 6-1.3 on page 128 and “WMP-Discovery2020-2028 DR TURN_004-Q29(154x17).xlsx” the combined effectiveness of two independent mitigation programs is the sum of the individual effectiveness of each program. This is the same as the complement of both programs being ineffective.</p> <p>Therefore, the combined effectiveness of two independent programs is 95%.</p> <p>c. The supporting calculations are provided in the “WMP-Discovery2020-2028 DR TURN_004-Q29(154x17).xlsx”.</p>	A Meille Fall-Fry	5/1/2025	5/8/2025	5/8/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	1	No	6	Wildfire Mitigation Strategy Development	6.13
209	TURN	004	TURN_004	3	No	TURN_004_Q02	<p>Please provide the figure in Excel with all supporting data, calculations, and assumptions.</p> <p>b. Please provide this figure when implementing planned vegetation management activities in the WMP.</p> <p>c. Please provide in Excel with all supporting data, calculations, and assumptions.</p>	<p>a. Please see the “WMP-Discovery2020-2028 DR TURN_004-Q29(154x17).xlsx” for the requested information. The response to subject (a) is located in “Q203”, where the request and the response to subject (b) is located in the “Q203” section of the attachment.</p> <p>b. Please see above.</p>	A Meille Fall-Fry	5/1/2025	5/8/2025	5/8/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	1	No	6	Wildfire Mitigation Strategy Development	6.13
210	TURN	004	TURN_004	4	No	TURN_004_Q4	<p>Section 6.2.1, page 150 states, “The total number of miles within the WMP is 1,200 miles. The total number of miles within the WMP is 1,200 miles. Should the total number of miles be closer to 25,000? 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 priority for the section and was provided by Energy Safety. PG&E does not believe the information provided in the WMP is accurate. The information provided in the WMP is not language that PG&E proposed. PG&E’s response to Energy Safety’s prompt begins after the solid division line at the bottom of the page.</p>	A Meille Fall-Fry	5/1/2025	5/9/2025	5/9/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	6	Wildfire Mitigation Strategy Development	6.2.1.2
211	TURN	004	TURN_004	5	No	TURN_004_Q5	<p>Section B.2.1, page 181 states “PG&E will analyze the proposed CCP mode to determine if there are areas with low strike risk or locations that could benefit from implementation of CCP.”</p> <p>a. Please define “benefit” risk?</p> <p>b. Please explain how the proposed CCP mode can be used to determine the benefit?</p> <p>c. Please define “ingress/egress issues as used here.</p>	<p>a. For purposes of the System Hardening program, tree strike risk refers to the likelihood of a tree falling onto a power line, causing a short circuit, and breaking a proposed overhead line span. An area with a strike score of 0 or higher is identified as “Area of Impact Identified”, referred to as “AII”. The AII is the area where the probability of a tree falling onto a power line is greater than 10%.</p> <p>b. If a high strike potential is identified, preferred approach is to understand the location and remove the tree(s) prior to the implementation of the CCP. If the CCP is the preferred approach, the CCP must meet the following criteria as described in Section 2.2, Figure PG&E-2.1-2, of the WMP. However, if mitigation is not feasible, the CCP must be designed to meet the requirements, we will collaborate with PG&E’s vegetation management team to determine the most feasible conductor (CC) to mitigate vegetation removal is an acceptable alternative.</p> <p>c. Ingress and egress nodes are defined as locations where power lines enter and exit a facility. Design requirements for these facilities include protection of the facility and first responders during an emergency.</p> <p>As noted in the WMP, “In the DR TURN_004-Q29(154x17).pdf”, the PSS considers many factors when evaluating ingress and egress concerns, and it is possible that some areas have low strike risk but have significant ingress and egress impacts in every situation. The specific facts and circumstances of each individual location will determine whether the proposed CCP mode is acceptable. The impact of the CCP on the surrounding environment and the circumstances of a tree, when taken together, form our understanding of the real benefit of the CCP. This is a particular area of concern.</p> <p>d. 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 home compared to during the day when fewer people are home) * Amount of time the public would need to evacuate or shelter in place * Road infrastructure (e.g., road size, number of lanes, type of surface, design, condition, etc.) 	A Meille Fall-Fry	5/1/2025	5/8/2025	5/8/2025	https://www.pge.com/assets/page/docs/outputs_and_calculations/mitigation_and_support/2020-2028_wmp.xlsx	0	No	6	Grid Design, Operations, and Maintenance	8.2.1

223	MORA	008	MORA_008	5(s)	Yes	MORA_008_O5a	In Section 4.1.2.1 PG&E's model asserts that The literature on structure loss vs. wildfire is extensive and lists a number of different methods to estimate structure loss. These include: a. Hedonic regression models that estimate the value of a house based on its location, houses, proximity of vegetation to the structure, enclosed eves and verds, and insulation. b. How does PG&E's structure loss model incorporate other variables that are not included in the hedonic regression models? c. Please provide the numerical values that went into Figures 9 and 10. d. Figure 9 shows that the probability of structure loss is very small (less than 0.3) for low loss > 0.7, and for TD4+ probability of structure loss is very large (coast for loss > 0.7 => loss < 0.7). Does this imply that PG&E's model is not able to account for the uncertainty in the data set based on the availability of firefighting resources? If so, what justification analysis or validation was done to support this?	The calculations in the section of documentation that includes Figures 9 and 10 were included as examples from a development version of the model, notably with weighted data points. The data points correspond to those used in the v4 release, and it is an earlier version of the file used. For these reasons, the data highlighted in the documentation example was not aligned with the values used in the v4 release. The number of fires in the decades predicted by the model coincided with the v4 model are provided in the table below.	Joseph Mitchell	5/5/2025	5/14/2025	5/14/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
224	MORA	008	MORA_008	6	No	MORA_008_O5b	The analysis provided estimated TD1 values for the Date fire. Please provide a b. What other major fires as well including: a. Estimated date b. Locations c. Patches (2025)	TD1 data was learned from Technetica for PG&E's service territory and is proprietary. We do not have access to any of the requested fire locations, all of which were outside of PG&E's service territory. Please note the primary suppression hazard characteristic shared by those fires was their rate of spread, supported by the following table:	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
225	MORA	008	MORA_008	7	No	MORA_008_O5c	What PG&E's regression model developed internally or by a third party vendor, and if the latter which vendor?	PG&E's suppression model is a regression model that was developed internally. As discussed in the previous responses in this set of fire requests, the TD1 covariates was	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
226	MORA	008	MORA_008	8	No	MORA_008_O5d	With respect to Table 12 a. Please provide the full model regression results. b. A value is shown to be 0 (or less than 0.00005) in Table 12. What is the meaning of this value? c. In the regression, how many variables were used to fit how many bits of data? d. If this table provides the validation that was done to quantify the explanatory value of AFN and other variables	The calculations in the section of documentation were included as examples and were aligned with the values used in the v4 release. The results in the table below, and the discussion that follows, are based on the model fit with coefficients Generalized Linear Model Regression Results ----- coef std err zPr(z) P> z	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
227	MORA	008	MORA_008	9	No	MORA_008_O6	In Section 4.2.3, PG&E advances the hypothesis that AFN fraction is a predictor of fatalities. Please provide a regression analysis with high diagnostic plots. a. Figure 12 shows an age distribution for the Camp fire fatalities. Please provide an updated age distribution graph for the 50,000 people who evacuated from the Camp fire.	We are not aware of a survey of evacuees but we did consult the 2010 census data for the Camp Fire area. The total population in the census tract of the Camp fire is 1,528 people. (71% aged 15 to 24, 4.6% 25 to 29, 18.4% 30 to 34, 6.4% 35 to 39, 21.3% aged 45 to 54, 6.5% 55 to 59, 16.1% 60 to 64, 11.4% 65 to 69, 10.6% 70 to 74, 1.3% 75 to 79, 1.3% 80 to 84, 1.3% 85 to 89, 1.3% 90 to 94, 1.3% 95 to 99, 1.3% 100 and over). The mean age of the population is 37. The mean age of the Camp fire is 72 years. Those numbers in a histogram took the figure below, and depicts the percentage of the population on the y-axis and age-groups on the x-axis.	Joseph Mitchell	5/5/2025	5/12/2025	5/12/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
228	TURN	005	TURN_005	1	No	TURN_005_O1	Regarding PG&E's attachment "WMP-Discovery2028-2028_DR_TURN_005-Q001A001.xlsx", in Excel please add a column that provides the number of overhead miles for each project listed.	Please see attachment "WMP-Discovery2028-2028_DR_TURN_005-Q001A001.xlsx", workbook "Duration Analysis", Column J A few notes about the data provided: PG&E has interpreted the request as referring to the original overhead miles that were removed in the subproject and has provided those miles in response. The primary overhead miles removed and replaced by undergrounding reflect actual overhead miles removed on undergrounding projects for which data is available. If data is not yet available, we used the adopted overhead to underground conversion factor of 1 mile of overhead to 1.25 miles of undergrounding.	A Mirella Fall-Fry	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	1	No	6	Wildfire Mitigation Strategy Development	6.1.3.1
229	TURN	005	TURN_005	2	No	TURN_005_O2	Regarding TURN-3 PG&E attachment "WMP-Discovery2028-2028_DR_TURN_005-Q001A001": a. Please provide a definition for each column header. b. Please provide the total risk score for each circuit segment. c. Please provide the total risk score for each circuit segment. d. Does PG&E rank circuit segments for prioritization by highest risk by column "J" – "Str Wildfire Risk per PrOH Mil" – or "Str Wildfire Risk per PrOH Mil" – or "Str Wildfire Risk per PrOH Mil" – or "Str Wildfire Risk per PrOH Mil". e. Please explain how the risk calculation is used to rank circuit segments from highest to lowest (not PG&E's prioritization of "PrOH Mil"). f. Does PG&E's prioritization of "PrOH Mil" equal the total risk score for each circuit segment? Please explain.	a. Please see the table below for the definition of each column header: The circuit segment total risk score is not shown in any column in this data set. It was not required for the original Cal Advoates data request. b. The assumed risk calculation by the System Hardening – Undergrounding corporate wildfire risk per primary overhead mile, which is reported to establish the relative risk values. c. The assumed risk calculation by the System Hardening – Line Removal corporate wildfire risk per primary overhead mile values from largest to smallest by column "J" – "Str Wildfire Risk per PrOH Mil". d. Yes, multiplying column (J) by System Hardening risk per primary overhead mil, times the primary overhead risk per primary overhead mil will produce the total wildfire risk sum for a circuit segment. However, there are circuit segments for which there is no primary overhead mileage and hence the original risk sums will not be recovered. These six circuit segments are the ones that have been assigned primary conductor and a limited amount of secondary overhead contractor miles. Their risk sums are essentially zero. e. Yes, the comparison is to OH hardening + EPIS.	A Mirella Fall-Fry	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-MORA_008.pdf	0	No	5	Risk Methodology & Assessment	5.4
230	TURN	005	TURN_005	3	No	TURN_005_O3	Regarding the decision tree in Figure PG&E B.2.1-2 on page 154: Can OH hardening be applied to trees that are not OH? Does "OH Mil" include EPIS? Please explain. b. In the first row, why are PSPS and EPSS not evaluated? Please explain. c. Regarding the second row "Begin Hybrid Analysis" what happens if the answer to all questions in a yellow box is "no"? Then what does a user identify with High tree strike potential...?" is not? Please explain. d. Regarding the second row "Begin Hybrid Analysis" what happens if the answer to all questions in a yellow box is "yes"? Then what does a user identify with High tree strike potential...?" is not? Please explain. e. Regarding a "hybrid" project, is it possible for such a project to contain 99% undergrounding and 1% overhead hardening? Please explain.	a. Yes, the comparison is to OH hardening + EPIS. The assumed risks associated with PSPS and EPSS are included as appropriate in the benefit associated with the economic data request. b. The assumed risk calculation by the System Hardening – Undergrounding corporate wildfire risk per primary overhead mile, which is reported to establish the relative risk values. c. If the answer to all the questions in a yellow box is "no", then OH hardening + EPIS would be selected mitigation, and undergrounding would not be proposed/detailed in the scope. d. Yes, it is possible, although unlikely, that a "hybrid" project could be 99% undergrounding and 1% overhead hardening. In projects where there are no overhead miles, the overhead miles would be zero. Then the system hardening would be 99% undergrounding and the overhead miles would be zero. Examples include locations where there are tree relocations or water crossings under underground installation. In these cases, alternate solutions, such as bridge attachments or boring, may not be viable either.	A Mirella Fall-Fry	5/8/2025	5/13/2025	5/13/2025	https://www.pge.com/assets/pge/docs/legislative-and-safelife/legislative-preparedness-and-support/2028-TURN_005.pdf	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
231	OEIS	009	OEIS_009	19(2)	Yes	OEIS_009_O1a2	Regarding 2028 Risk Reduction for Undergrounding and Coved Conductor Table 8-1 of PG&E's 2028-2028 Base WMP includes risk reduction percentages for 2028 based on its current risk management strategy and WTRM v1. Given that the year 2028 is part of the current General Risk Case Decision, Energy Safety cannot currently complete its risk reduction analysis for the year 2028. Please provide the risk reduction percentages planned for 2028 for the following activities based on WDRM v3 and WTRM v1. i. System Hardening – Undergrounding (GH44) ii. System Hardening – Line Removal – Distribution (GH46) iii. System Hardening – Transmission Conductor Segment Replacement (GH41) iv. Overhead Hardening and Line Removal – Distribution (GH41)	Per request from the Office of Emergency Infrastructure Safety, we are responding to this attachment provided with "WMP-Discovery2028-2028_DR_TURN_005-Q001A001.pdf" for this request. The "WMP-Discovery2028-2028_DR_TURN_005-Q001A001CONF.xlsx" is now being produced as "WMP-Discovery2028-2028_DR_TURN_005-Q001A001CONF.xlsx" and "WMP-Discovery2028-2028_DR_TURN_005-Q001A001CONF.xls". Please reference worksheet GH-1 Workplan 2028-2028 DR TURN 005 Q001A001CONF.xls and GH-2 Workplan 2028-2028 DR TURN 005 Q001A001CONF.xls. The columns Q (Ext Wildfire Risk Reduction) (V3) and column R (Ext Wildfire Risk Reduction) (V3) are identical. The columns S (Ext Wildfire Risk Reduction) (V3) and column T (Ext Wildfire Risk Reduction) (V3) are identical. The columns U (Ext Wildfire Risk Reduction) (V3) and column V (Ext Wildfire Risk Reduction) (V3) are identical. The columns W (Ext Wildfire Risk Reduction) (V3) and column X (Ext Wildfire Risk Reduction) (V3) are identical. The columns Y (Ext Wildfire Risk Reduction) (V3) and column Z (Ext Wildfire Risk Reduction) (V3) are identical. 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The columns CZ (Ext Wildfire Risk Reduction) (V3) and column DZ (Ext Wildfire Risk Reduction) (V3) are identical. The columns FZ (Ext Wildfire										

245	SPD	006	SPD_006	4	No	SPD_006_Q4	<p>In its response to SPG-204 Question 2(b), PGAE states "Cost-related feasibility factors are incorporated into cost assumptions as a quantifiable cost modifier, which are included in the estimated unit cost of the proposed system." Please provide the quantifiable cost modifier for each of the seven "primary examples of feasibility constraints" listed in Question 27.</p> <p>b. Explain how PGAE determined the value for each of the quantifiable cost modifiers listed in Question 27.</p>	<p>a. The primary examples of feasibility constraints listed in Question 27 are an exhaustive list of cost adders that could be applied to a project during scoping. As we proceed through scoping, we may identify additional cost adders or constraints that are not listed in the original list.</p> <p>The cost at the scoping stage is considered an Association for the Advancement of Cost Estimating (AACE) Level 1 estimate. This estimate is based on preliminary definition and serves as a preliminary assessment with a potential accuracy range of +/- 20 percent. Cost classes are used for strategic planning, evaluation, project viability, and performance optimization.</p> <p>Please refer to "WMP-Discovery2026-2028_DR_SPD_006-Q4_Cost" for more information on the cost adders and their associated amounts. These costs encompass items related to the feasibility constraints listed in Question 27 did not include the accurate adders identified in these areas of consideration.</p>	Eddie Schmitt	5/19/2025	6/2/2025	6/2/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_006.xls	1	No	8	Grid Design, Operations, and Maintenance	8.2.1
246	SPD	006	SPD_006	5	No	SPD_006_Q5	<p>In a meeting on May 29 to discuss the Wildfire Benefit Cost Analysis (WBCA) Tool, SPD understood from PGAE that a limited number of circuit segments had been evaluated according to the System Hardening Scoping Decision Tree. Projected results in Figure PGAE-8.2-1-1, PGAE-8.2-1-2, and PGAE-8.2-1-3 in the 2026-2028 Base WMP were developed for the 2026-2028 WMP. The WBCA Tool was developed for the 2026-2028 WMP selection beginning in 2027.</p> <p>b. Explain the number of circuit segments where PGAE has already applied the decision tree for mitigation work in 2027 and 2028.</p> <p>c. Provide the number of circuit segments where PGAE intends to apply the decision tree for work done in 2027 and 2028.</p>	<p>a. As of May 29, 2025, a total of 28 circuit segments have been reviewed against the decision tree. The WBCA Tool has been developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree and progressed through scoping. Due to size or complexity, not all of these segments will be evaluated using the WBCA Tool. The remaining segments will be evaluated and will be evaluated using these decision trees.</p>	Eddie Schmitt	5/19/2025	6/2/2025	6/2/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_006.xls	0	No	3	Overview of WMP	3.6
247	SPD	006	SPD_006	6	No	SPD_006_Q6	<p>In a meeting on May 29 to discuss the Wildfire Benefit Cost Analysis (WBCA) Tool, SPD informed PGAE that the baseline value of risk used to calculate CBH is different in the 2024 RAMP and the WBCA Tool. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. Explain the number of circuit segments where PGAE has already applied the decision tree for mitigation work in 2027 and 2028.</p> <p>c. Provide the number of circuit segments where PGAE intends to apply the decision tree for work done in 2027 and 2028.</p>	<p>a. Pursuant to agreement with SPG, PGAE will provide this response on May 26, 2025.</p> <p>Historically, the near permanent reduction of wildfire risk through infrastructure upgrades has been the focus of most system hardening initiatives. Outages resulting from system hardening are often temporary and do not result in a long-term reduction of the exposure of reliability risk. However, to maintain focus on only the most critical system hardening activities, the WBCA Tool will evaluate risk on the basis of the exposure of reliability risk.</p> <p>The WBCA Tool is a simplified version of the System Hardening Scoping Decision Tree and progresses through scoping. Due to size or complexity, not all of these segments will be evaluated using the WBCA Tool. The remaining segments will be evaluated and will be evaluated using these decision trees.</p>	Eddie Schmitt	5/19/2025	5/22/2025	5/22/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_006.xls	0	No	3	Overview of WMP	3.6
247	SPD	006	SPD_006	6(p)	Yes	SPD_006_Q6(p)	<p>In a meeting on May 29 to discuss the Wildfire Benefit Cost Analysis (WBCA) Tool, SPD informed PGAE that the baseline value of risk used to calculate CBH is different in the 2024 RAMP and the WBCA Tool. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. Explain the number of circuit segments where PGAE has already applied the decision tree for mitigation work in 2027 and 2028.</p> <p>c. Provide the number of circuit segments where PGAE intends to apply the decision tree for work done in 2027 and 2028.</p> <p>d. Explain any other differences.</p>	<p>a. Pursuant to agreement with SPG, PGAE will provide this response on May 26, 2025.</p> <p>Historically, the near permanent reduction of wildfire risk through infrastructure upgrades has been the focus of most system hardening initiatives. Outages resulting from system hardening are often temporary and do not result in a long-term reduction of the exposure of reliability risk.</p> <p>The WBCA Tool is a simplified version of the System Hardening Scoping Decision Tree and progresses through scoping. Due to size or complexity, not all of these segments will be evaluated using the WBCA Tool. The remaining segments will be evaluated and will be evaluated using these decision trees.</p>	Eddie Schmitt	5/19/2025	5/28/2025	5/28/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_006.xls	1	No	3	Overview of WMP	3.6
248	SPD	008	SPD_008	7	No	SPD_008_Q7	<p>In a meeting on May 29 to discuss the Wildfire Benefit Cost Analysis (WBCA) Tool, PGAE stated that the baseline value of risk used to calculate CBH is different in the 2024 RAMP and the WBCA Tool. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. Explain the number of circuit segments where PGAE has already applied the decision tree for mitigation work in 2027 and 2028.</p> <p>c. Provide the number of circuit segments where PGAE intends to apply the decision tree for work done in 2027 and 2028.</p> <p>d. Explain any other differences.</p>	<p>a. Pursuant to agreement with SPG, PGAE will provide this response on May 26, 2025.</p> <p>Historically, the near permanent reduction of wildfire risk through infrastructure upgrades has been the focus of most system hardening initiatives. Outages resulting from system hardening are often temporary and do not result in a long-term reduction of the exposure of reliability risk.</p> <p>The WBCA Tool is a simplified version of the System Hardening Scoping Decision Tree and progresses through scoping. Due to size or complexity, not all of these segments will be evaluated using the WBCA Tool. The remaining segments will be evaluated and will be evaluated using these decision trees.</p>	Eddie Schmitt	5/19/2025	5/22/2025	5/22/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_008.xls	0	No	3	Overview of WMP	3.6
249	OEIS	012	OEIS_012	1	No	OEIS_012_Q1	<p>On April 18, 2025, PGAE submitted substantive write-in for the 2026-2028 Base WMP. On May 16, 2025, PGAE submitted substantive write-in for the 2026-2028 WMP. Both submissions were made in accordance with the Projected WMP Submission Deadlines. The WBCA Tool was developed for the 2026-2028 WMP. Similar to the 2024 RAMP, the WBCA Tool will be used to determine the baseline value of risk used to calculate CBH.</p> <p>a. Explain the forecast references that were made for the April 18, 2025, write-in.</p> <p>b. Explain the forecast references that were made for the May 16, 2025, write-in.</p> <p>c. Explain the forecast references that were made for the April 18, 2025, write-in.</p>	<p>a. On April 18, 2025, PGAE submitted substantive write-in for the 2026-2028 Base WMP. On May 16, 2025, PGAE submitted substantive write-in for the 2026-2028 WMP. Both submissions were made in accordance with the Projected WMP Submission Deadlines. The WBCA Tool was developed for the 2026-2028 WMP. Similar to the 2024 RAMP, the WBCA Tool will be used to determine the baseline value of risk used to calculate CBH.</p> <p>b. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>c. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p>	Nathan Poon	5/23/2025	6/5/2025	5/29/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_OEIS_012.xls	1	No	3	Overview of WMP	3.6
250	OEIS	012	OEIS_012	2	No	OEIS_012_Q2	<p>In a meeting on May 29 to discuss the Wildfire Benefit Cost Analysis (WBCA) Tool, PGAE stated that the baseline value of risk used to calculate CBH is different in the 2024 RAMP and the WBCA Tool. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. Explain the forecast references that were made for the April 18, 2025, write-in.</p> <p>c. Explain the forecast references that were made for the May 16, 2025, write-in.</p> <p>d. Explain the forecast references that were made for the April 18, 2025, write-in.</p>	<p>a. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>c. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>d. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p>	Nathan Poon	5/23/2025	5/29/2025	5/29/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_OEIS_012.xls	0	No		Vegetation Management and Inspections	9
251	OEIS	012	OEIS_012	3	No	OEIS_012_Q3	<p>In response to data request OEIS-P-WMP_2025-PGE-008, question 1, subpart (b), PGAE provided an updated version of Table 6-4 from the 2026-2028 Base WMP that included risk assessments for vegetation management.</p> <p>a. Provide a version of Table 6-4 that includes the risk assessments for vegetation management for each type of circuit segment.</p> <p>b. Explain the forecast references that were made for the April 18, 2025, write-in.</p> <p>c. Explain the forecast references that were made for the May 16, 2025, write-in.</p> <p>d. Explain the forecast references that were made for the April 18, 2025, write-in.</p>	<p>a. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>c. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>d. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p>	Nathan Poon	5/23/2025	6/5/2025	6/5/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_OEIS_012.xls	1	No	5	Risk Methodology and Assessment	5.5.2
252	SPD	007	SPD_007	1	No	SPD_007_Q1	<p>a. Table PGAE-8.2-1-3 shows the blended average effectiveness values for system hardening scenarios. The table also provides the risk reduction for each scenario. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. Explain the forecast references that were made for the April 18, 2025, write-in.</p> <p>c. Explain the forecast references that were made for the May 16, 2025, write-in.</p> <p>d. Explain the forecast references that were made for the April 18, 2025, write-in.</p>	<p>a. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>b. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>c. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p> <p>d. The WBCA Tool was developed for the 2026-2028 WMP. The WBCA Tool includes the same logic as the System Hardening Scoping Decision Tree. The WBCA Tool should include an example with a table that is similar to Table PGAE-8.2-1-2 and 8.2-2 in the 2026-2028 Base WMP.</p>	Eddie Schmitt	6/2/2025	6/12/2025	6/12/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_007.xls	0	No	5	Risk Methodology & Assessment	5.4
253	SPD	007	SPD_007	2	No	SPD_007_Q2	<p>Does PGAE's P(O) model used as part of its WDRM-v4 very similarly or are the values presented in TABLE A-C in PGAE-8.2-1-1 uniformly equivalent to what?</p>	<p>The P(O) model that contributes to WDRM-v4 values spatially throughout the distribution service territory.</p> <p>b. The P(O) model is a machine learning model that is calculated to be, on average, 98% effective at reducing the potential of an ignition event.</p> <p>c. The estimated risk reduction to be achieved in any given location is based on the risk drivers at that specific location, and the amount of risk that location (dependent on the Standardized Average Effectiveness).</p> <p>d. PGAE uses averages as a proxy for ignitions since there is abundant data available from thousands of different types of future events, even with the potential to cause an ignition, to support a statistically significant analysis.</p> <p>e. The P(O) model is a machine learning model that is calculated to be, on average, 98% effective at reducing the potential of an ignition event.</p> <p>f. The P(O) model is a machine learning model that is calculated to be, on average, 98% effective at reducing the potential of an ignition event.</p>	Eddie Schmitt	6/2/2025	6/5/2025	6/5/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_007.xls	0	Yes	5	Risk Methodology & Assessment	5.4
254	SPD	007	SPD_007	3	No	SPD_007_Q3	<p>For lines where the wildfire risk is mitigated by understanding the primary lines, does PGAE have criteria for determining if the risk is reduced? If so, what are the criteria? For lines where the wildfire risk is not mitigated by understanding the primary lines, does PGAE have criteria for determining if the risk is reduced? If so, what are the criteria? What is the difference between the two?</p> <p>b. What role does the remaining risk from overhead hardened secondary lines play in the decision to continue to mitigate the primary lines?</p> <p>c. Explain the forecast references that were made for the April 18, 2025, write-in.</p>	<p>a. PGAE is currently working through the process mapping and data exchange to determine the criteria for determining if the risk is reduced. The criteria will be determined by the WDRM-v4 model.</p> <p>b. PGAE is currently working through the process mapping and data exchange to determine the criteria for determining if the risk is reduced. The criteria will be determined by the WDRM-v4 model.</p> <p>c. The WDRM-v4 model is a machine learning model that is trained on historical data to predict future events. The WDRM-v4 model is a set of machine learning (ML) models, and it is not appropriate to extract causal information from the predictive models. The models predict future values based on historical event data.</p> <p>d. We begin an analysis with outputs as a proxy for options to define driver-level effectiveness values and apply these to estimate the risk reduction for the P(O) model.</p>	Eddie Schmitt	6/2/2025	6/5/2025	6/5/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_007.xls	0	Yes	6	Wildfire Mitigation Strategy Development	6.1.3.1
255	SPD	007	SPD_007	4	No	SPD_007_Q4	<p>PGAE understood that PGAE was planning to replace its current software for poles intrusively impacted to be primarily based off of a calculated safety factor rather than the calculated remaining strength. PGAE understood that the WDRM-v4 model would be used to determine the risk reduction for poles intrusively impacted. PGAE understood that the WDRM-v4 model would be used to determine the risk reduction for poles intrusively impacted. PGAE understood that the WDRM-v4 model would be used to determine the risk reduction for poles intrusively impacted. PGAE understood that the WDRM-v4 model would be used to determine the risk reduction for poles intrusively impacted.</p>	<p>a. PGAE is currently working through the process mapping and data exchange to determine the criteria for determining if the risk is reduced. The criteria will be determined by the WDRM-v4 model.</p> <p>b. PGAE is currently working through the process mapping and data exchange to determine the criteria for determining if the risk is reduced. The criteria will be determined by the WDRM-v4 model.</p> <p>c. The WDRM-v4 model is a machine learning model that is trained on historical data to predict future events. The WDRM-v4 model is a set of machine learning (ML) models, and it is not appropriate to extract causal information from the predictive models. The models predict future values based on historical event data.</p> <p>d. Additionally, as a further step to the analysis, we are continuing to evaluate the remaining strength of the poles. The WDRM-v4 model is a machine learning model that is trained on historical data to predict future events. The WDRM-v4 model is a set of machine learning (ML) models, and it is not appropriate to extract causal information from the predictive models. The models predict future values based on historical event data.</p> <p>e. We will analyze with outputs as a proxy for options to define driver-level effectiveness values and apply these to estimate the risk reduction for the P(O) model.</p>	Eddie Schmitt	6/2/2025	6/5/2025	6/5/2025	https://www.pge.com/assets/pge/docs/regions_and_safespace/upgrade-preparations-and-support/2026-2028_SPD_007.xls	0	Yes	8	Grid Design, Operations, and Maintenance	8.3.11

277	OEIS	016	OEIS_016	No	OEIS_016_Q	<p>Q9: Regarding unplanned distribution system outages from Jan 1, 2023, to Dec 31, 2024</p> <p>a. Provide a list and description of each distinct cause attributed to an unplanned distribution outage from Jan 1, 2023, to Dec 31, 2024.</p> <p>b. Provide the average number of distribution poles in PG&E's High, Severe, and Extreme plat maps (as defined in the HFTD from 2022-2025) WMP from Jan 1, 2023, to Dec 31, 2024.</p> <p>c. Provide the average number of distribution poles in PG&E's High, Severe, and Extreme plat maps from Jan 1, 2023, to Dec 31, 2024.</p> <p>d. Provide the number of unplanned distribution outages caused by vegetation contact during major event days.</p> <p>e. Provide the number of unplanned distribution outages caused by vegetation contact during minor event days.</p> <p>f. Provide the number of unplanned distribution outages caused by equipment failure from Jan 1, 2023, to Dec 31, 2024.</p> <p>g. Provide the number of unplanned distribution outages caused by equipment failure during major event days.</p> <p>h. Provide the number of unplanned distribution outages caused by equipment failure during minor event days.</p> <p>i. Complete the table below regarding PG&E's planned work in State Resource Areas (SRAs) located within the HFTD from 2022 to 2024.</p> <p>j. Complete the table below regarding PG&E's pole clearing work in Local Resource Areas (LRAs) located within the HFTD from 2022 to 2024.</p> <p>k. Complete the table below regarding PG&E's pole clearing work in Federal Responsibility Areas (FRAs) located within the HFTD from 2022 to 2024.</p>	<p>Nathan Poon</p> <p>7/8/2025</p> <p>7/11/2025</p> <p>7/11/2025</p> <p>Please see attachment "WMP_Discovery2022-2029_DR_OEIS_016.xls" for the requested information.</p> <p>Please note that the fields in column A through H on the "Primary" tab have been modified to show EPSS and WLDPR instead of WMP and WLDPR. The fields in columns I through K on the "Primary" tab have been modified to show WLDPR instead of WMP. It should also be noted that the "S&S" tab applies to 2024 RAMP WLDPR/HFRA/Non-HFRA and 2027 CRC/HFRA/Non-HFRA Tranches. Secondary and service lines are not considered separate tranches for EPSS and WLDPR.</p> <p>a. Fill in the data requested in the attached worksheet titled "Decision Tree Results by Circuit Segment 2.0.xlsx". The "Decision Tree Results by Circuit Segment 2.0.xlsx" spreadsheet includes the following tabs:</p> <ul style="list-style-type: none"> a. In the "RootSegment" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. b. In the "Individual" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. <p>The Post-Migrated fields found in the WDRM v4 topic in the "Instructions" spreadsheet should be filled out based on the information provided in the "Instructions" spreadsheet.</p> <p>a. Follow the Field Descriptions in the "Instructions" spreadsheet to complete the corresponding cells in the "Primary", "S&S" and "OutTotal" spreadsheets.</p> <p>b. The risk reduction calculation must be limited to the primary lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>c. If requested, the risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in both the primary, secondary and service lines found on the "Instructions" spreadsheet.</p> <p>d. The risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>e. Complete the table below regarding PG&E's planned work in State Resource Areas (SRAs) located within the HFTD from 2022 to 2024. The first tranche must be added to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>f. Complete the table below regarding PG&E's pole clearing work in Local Resource Areas (LRAs) located within the HFTD from 2022 to 2024.</p> <p>g. Complete the table below regarding PG&E's pole clearing work in Federal Responsibility Areas (FRAs) located within the HFTD from 2022 to 2024.</p>	0	No	8	8.1.3	
278	OEIS	017	OEIS_017	I	No	OEIS_017_Q1	<p>In PG&E's fourth supplemental response to Question 5 of SPD-POSE-WMP2026-004, PG&E provided SPD with WMP_Discovery2022-2029_DR_SPO_004-Q0055spdf.xlsx. On July 14, 2025, SPD met with PG&E to review the WDRM v4 topic in the "Instructions" spreadsheet and the "Instructions" spreadsheet was updated to reflect the changes made by PG&E. On July 19, 2025, SPD met with PG&E to discuss the WDRM v4 topic. PG&E agreed that it would be able to complete the post-migrated fields found in the WDRM v4 topic of WMP_Discovery2022-2029_DR_SPO_004-Q0055spdf.xlsx.</p> <p>a. Fill in the data requested in the attached worksheet titled "Decision Tree Results by Circuit Segment 2.0.xlsx". The "Decision Tree Results by Circuit Segment 2.0.xlsx" spreadsheet includes the following tabs:</p> <ul style="list-style-type: none"> a. In the "RootSegment" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. b. In the "Individual" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. <p>The Post-Migrated fields found in the WDRM v4 topic in the "Instructions" spreadsheet should be filled out based on the information provided in the "Instructions" spreadsheet.</p> <p>a. Follow the Field Descriptions in the "Instructions" spreadsheet to complete the corresponding cells in the "Primary", "S&S" and "OutTotal" spreadsheets.</p> <p>b. The risk reduction calculation must be limited to the primary lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>c. If requested, the risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in both the primary, secondary and service lines found on the "Instructions" spreadsheet.</p> <p>d. The risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>e. Complete the table below regarding PG&E's planned work in State Resource Areas (SRAs) located within the HFTD from 2022 to 2024. The first tranche must be added to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>f. Complete the table below regarding PG&E's pole clearing work in Local Resource Areas (LRAs) located within the HFTD from 2022 to 2024.</p> <p>g. Complete the table below regarding PG&E's pole clearing work in Federal Responsibility Areas (FRAs) located within the HFTD from 2022 to 2024.</p>	<p>Nathan Poon</p> <p>7/15/2025</p> <p>7/18/2025</p> <p>7/18/2025</p> <p>Please see attachment "WMP_Discovery2022-2029_DR_OEIS_017.xls" for the requested information.</p> <p>Please note that the fields in column A through H on the "Primary" tab have been modified to show EPSS and WLDPR instead of WMP and WLDPR. The fields in columns I through K on the "Primary" tab have been modified to show WLDPR instead of WMP. It should also be noted that the "S&S" tab applies to 2024 RAMP WLDPR/HFRA/Non-HFRA and 2027 CRC/HFRA/Non-HFRA Tranches. Secondary and service lines are not considered separate tranches for EPSS and WLDPR.</p> <p>a. Fill in the data requested in the attached worksheet titled "Decision Tree Results by Circuit Segment 2.0.xlsx". The "Decision Tree Results by Circuit Segment 2.0.xlsx" spreadsheet includes the following tabs:</p> <ul style="list-style-type: none"> a. In the "RootSegment" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. b. In the "Individual" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. <p>The Post-Migrated fields found in the WDRM v4 topic in the "Instructions" spreadsheet should be filled out based on the information provided in the "Instructions" spreadsheet.</p> <p>a. Follow the Field Descriptions in the "Instructions" spreadsheet to complete the corresponding cells in the "Primary", "S&S" and "OutTotal" spreadsheets.</p> <p>b. The risk reduction calculation must be limited to the primary lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>c. If requested, the risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in both the primary, secondary and service lines found on the "Instructions" spreadsheet.</p> <p>d. The risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>e. Complete the table below regarding PG&E's planned work in State Resource Areas (SRAs) located within the HFTD from 2022 to 2024. The first tranche must be added to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>f. Complete the table below regarding PG&E's pole clearing work in Local Resource Areas (LRAs) located within the HFTD from 2022 to 2024.</p> <p>g. Complete the table below regarding PG&E's pole clearing work in Federal Responsibility Areas (FRAs) located within the HFTD from 2022 to 2024.</p>	0	No	8	8.1.3
279	SPD	010	SPD_010	I	No	SPD_010_Q1	<p>In PG&E's fourth supplemental response to Question 5 of SPD-POSE-WMP2026-004, PG&E provided SPD with WMP_Discovery2022-2029_DR_SPO_010-Q001401n01.xls for the requested information.</p> <p>Please note that the fields in column A through H on the "Primary" tab have been modified to show EPSS and WLDPR instead of WMP and WLDPR. The fields in columns I through K on the "Primary" tab have been modified to show WLDPR instead of WMP. It should also be noted that the "S&S" tab applies to 2024 RAMP WLDPR/HFRA/Non-HFRA and 2027 CRC/HFRA/Non-HFRA Tranches. Secondary and service lines are not considered separate tranches for EPSS and WLDPR.</p> <p>a. Fill in the data requested in the attached worksheet titled "Decision Tree Results by Circuit Segment 2.0.xlsx". The "Decision Tree Results by Circuit Segment 2.0.xlsx" spreadsheet includes the following tabs:</p> <ul style="list-style-type: none"> a. In the "RootSegment" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. b. In the "Individual" spreadsheet, fields have been added in the Circuit Segment Description and Transcendent Fields sections. <p>The Post-Migrated fields found in the WDRM v4 topic in the "Instructions" spreadsheet should be filled out based on the information provided in the "Instructions" spreadsheet.</p> <p>a. Follow the Field Descriptions in the "Instructions" spreadsheet to complete the corresponding cells in the "Primary", "S&S" and "OutTotal" spreadsheets.</p> <p>b. The risk reduction calculation must be limited to the primary lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>c. If requested, the risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in both the primary, secondary and service lines found on the "Instructions" spreadsheet.</p> <p>d. The risk reduction calculation must be limited to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>e. Complete the table below regarding PG&E's planned work in State Resource Areas (SRAs) located within the HFTD from 2022 to 2024. The first tranche must be added to the secondary and service lines found on the corresponding "Circuit Segment Name" listed in Column A.</p> <p>f. Complete the table below regarding PG&E's pole clearing work in Local Resource Areas (LRAs) located within the HFTD from 2022 to 2024.</p> <p>g. Complete the table below regarding PG&E's pole clearing work in Federal Responsibility Areas (FRAs) located within the HFTD from 2022 to 2024.</p>	<p>Edwin Schmidt</p> <p>21-Jul</p> <p>25-Jul</p> <p>25-Jul</p> <p>Please see attachment "WMP_Discovery2022-2029_DR_SPO_010-Q001401n01.xls" for the requested information.</p> <p>We are in the process of transforming the WDRM v4 risk dataset into a GIS format and will provide the dataset in a future response.</p>	0	No	8	8.1.3
280	SPD	010	SPD_010	2	No	SPD_010_Q2	<p>On July 19, 2025, SPD met with PG&E to discuss PG&E informed SPD that it is developing a means of tracking CP2 against WDRM v3.x and v4. This was a clarification upon PG&E's third supplemental response to Question 5 of SPD-POSE-WMP2026-004. The purpose of this development is for relaying circuit segments between model versions and explaining the change in the process of being migrated.</p> <p>a. Please explain why PG&E developed a means of tracking CP2 against WDRM v3.x and v4.</p> <p>b. Please explain why PG&E developed a means of tracking CP2 against WDRM v3.x and v4. The updated dataset must include every circuit segment listed in the Circuit Segment Name field in the Primary and Secondary and Service Lines fields.</p> <p>c. PG&E must provide the updated dataset by filling out Circuit Segment Change Tracker.xlsx worksheet that is included in the "Instructions" spreadsheet.</p> <p>d. If Explanation for Change v3.x or Explanation for Change v2.0-03A "merge" or "splitting", and PG&E merged more than two circuit segments to create a "new" circuit segment, then PG&E should explain the number of circuit segments merged and the reason for merging them.</p> <p>e. Provide SPD with the GIS datasets associated with WDRM v4 and WDRM v3 if at a minimum include the model version, the date of the model version, and the date of the update.</p> <p>f. Explain why PG&E used the WDRM v3 risk dataset to develop the WDRM v4 risk dataset.</p> <p>g. Provide SPD with Energy Safety that used these risk models. This should be equivalent to PG&E's response to Question 5 if it does not.</p>	<p>Edwin Schmidt</p> <p>21-Jul</p> <p>25-Jul</p> <p>25-Jul</p> <p>Please see attachment "WMP_Discovery2022-2029_DR_SPO_010-Q002402n01CONP.xls" for the requested WDRM v3 risk GIS dataset. We are in the process of transforming the WDRM v4 risk dataset into a GIS format and will provide the dataset in a future response.</p>	1	No	NA	8.1.3
281	SPD	011	SPD_011	1		SPD_011_Q1	<p>a. Complete the attached Excel worksheet ICE 2.0 Inputs.xlsx. Follow the instructions to complete the attachments to complete the tasks in ICE 2.0.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
282	SPD	011	SPD_011	2a		SPD_011_Q2a	<p>2024 WDRM v3 risk dataset for the percentage of health care customers that PG&E used in ICE 2.0. Calculations should be equivalent to the Manufacturing spreadsheet within WP-1.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
283	SPD	011	SPD_011	2b		SPD_011_Q2b	<p>Explain why the percentages of manufacturing and health care customers PG&E used in ICE 2.0 were different than the percentages of manufacturing and health care customers PG&E used in the Manufacturing spreadsheet within WP-1.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
284	SPD	011	SPD_011	2c		SPD_011_Q2c	<p>Confirm that the Electric Operations Unplanned Output Data from 2016-2022 (the "Int'l. loc." referenced in the "Electric Operations Unplanned Output Data from 2016-2022" table) is the same as the WMP_Discovery2022-2029_DR_SPO_011-Q014042.xls.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	2d		SPD_011_Q2d	<p>Explain why PG&E did not update the 2024 SADII data in the SAII and SADI fields in the "Electric Operations Unplanned Output Data from 2016-2022" table.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	2e		SPD_011_Q2e	<p>Provide the WDRM v3 risk dataset and the dataset of the PG&E-specific customer surveys developed by PG&E for the WDRM v3 risk dataset. These datasets must be developed by PG&E and provided to the ICE 2.0 calculator.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	3		SPD_011_Q2f	<p>Provide SPD with the dataset and results of the PG&E-specific customer surveys developed by PG&E and provided to the ICE 2.0 calculator. These datasets must be developed by PG&E and provided to the ICE 2.0 calculator.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	4		SPD_011_Q4	<p>Provide SPD with the dataset and results of the PG&E-specific customer surveys developed by PG&E and provided to the ICE 2.0 calculator. These datasets must be developed by PG&E and provided to the ICE 2.0 calculator.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	5a		SPD_011_Q5a	<p>Unscaled Pre-Migrated Ignition Risk provided by PG&E's first supplemental response Question 5</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	5b		SPD_011_Q5b	<p>If any areas are discovered in the EORM branch level values, explain if those areas impact the WMP_Discovery2022-2029_DR_SPO_011-Q014041.xls.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		
285	SPD	011	SPD_011	5c		SPD_011_Q5c	<p>If there are any areas in the EORM branch level values, provide SPD with an update to WMP_Discovery2022-2029_DR_SPO_011-Q014041.xls with corrected EORM risk values for those areas.</p>	<p>Edwin Schmidt</p> <p>7/26/2025</p> <p>11-Aug</p>		No		