





6	TURN	002	TURN_002	6(a)	Yes	TURN_002_OCRs	<p>Section 6.1.3.2, page 134, states "Overhead system hardening combined with operations mitigation EPSS and PPSs has a high-value reduction benefit that is roughly comparable to that of undergrounding without these operational mitigations. PG&amp;E continues to prefer undergrounding on high-risk circuits where feasible for several reasons. Undergrounding is permanent risk reduction that does not have the negative reliability impacts from PPSs and EPSS. Underground facilities are less likely to be damaged during winter storms by high winds and vegetation like trees falling on the facilities or other contact with the lines from dead animals. Over time, undergrounding also has lower construction and maintenance expenses."</p> <p>a. Please provide any studies or reports in PG&amp;E's possession that compare the long-term or life cycle costs of undergrounding with the costs of overhead hardening combined with EPSS, PPSs, and service grids to reduce the reliability impacts of EPSS and PPSs.</p> <p>b. Please provide any studies or reports in PG&amp;E's possession that compare the operations and maintenance expenses of undergrounding with overhead hardening.</p> <p>c. Please provide any studies or reports in PG&amp;E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounded vs. overhead hardened facilities.</p> <p>d. Please provide any studies or reports in PG&amp;E's possession that compare the reliability (e.g., SAIDI, SAIFI, CAIDI, etc.) of undergrounded vs. overhead hardened facilities...not includes the</p>	4. PG&E analyzed the reliability performance on sections of circuits where we performed undergrounding work in 2022 and 2023 to quantify overall improvements to service reliability and showed approximately a 30% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 6.2.2 of our 2025-2028 WMP. Please note that this analysis did not compare undergrounding to overhead hardening. <p>Please refer to Section 6.2.1 for PG&amp;E's explanation of risk impacts of mitigation activities including overhead conductor and undergrounding. PG&amp;E is not currently aware of any studies or reports in PG&amp;E's possession that compare the reliability of undergrounded and overhead hardened facilities.</p> <p>Currently, we expect undergrounding lines to be less susceptible to integrating conditions associated with exposed overhead lines such as damage and vegetation contact from severe winds, where not the case, or the slip or wire down. PG&amp;E analyzed the reliability performance on sections of circuits where we performed undergrounding work in 2022 and 2023 to quantify overall improvements to service reliability and showed approximately a 30% reduction in faults that resulted in sustained outages after undergrounding work was completed. Please see Section 6.2.2 of our 2025-2028 WMP. Please note that this analysis did not compare undergrounding to overhead hardening.</p> <p>We are not aware of any studies or reports that are in our possession that compare the reliability of undergrounded vs. overhead hardened facilities—not including the reliability impacts of PPSs and EPSS. However, we expect undergrounding lines to be less susceptible to outage-causing conditions associated with exposed overhead lines such as damage and/or vegetation contact from severe winds, animal contact, line slip or wire down.</p>	A Mirale Full-Fry	4/10/2025	4/14/2025	4/14/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	6	Wildfire Mitigation Strategy Development	6.1.3.2
7	TURN	002	TURN_002	7	No	TURN_002_OT	<p>The microgrids discussed in 6.2.7 are said to not impact reliability because they are not dependent on distribution lines. Do they increase reliability in areas where they have been isolated and can they be deployed in conjunction with other hardening mitigations to minimize reliability concerns?</p>	Section 6.2.7 addresses three microgrid related initiatives. <p>Remote Grids Remote grids are not connected to the distribution system, as they place generation assets right at the customer locations and the upstream distribution line to that location is removed. Therefore, any reliability concerns due to outages from the upstream distribution system are eliminated in the Remote Grid system architecture.</p> <p>Temporary Distribution Microgrids These microgrids are not tied to automatically energize upon an outage condition; they are manually operated to isolate and energize the microgrid footprint once the PPSs went back to energized state. As a pre-planned, pre-emptive, and manual operation due to its inherent design. While it is possible that they could be utilized during emergency or planned outages, it is not highly dependent upon the microgrid's temporary generators are pre-installed at the location, whether the location is used to actually energize in that outage, and whether the actual process of energizing the microgrid (and subsequently restoring back to normal), is actually beneficial from an outage duration standpoint versus simply parking, repairing, and restoring the outage condition. Since these temporary distribution microgrids utilize reciprocating engine generating assets, the ability to "automatically" energize these locations is not available.</p> <p>Community Microgrid Enablement Program and Microgrid Incentive Program MMP-Discovery 2025-2028, CR, TURN_002-0009 Page 2 These microgrids are currently chosen and could increase reliability in areas where they are installed, but are dependent upon the condition and nature of the outages and the grid design of the microgrid footprint that determine its conditions for safe operations. Each microgrid being requested to be designed by these communities through these facilities are unique and therefore their impact on reliability is dependent on the specific design of the microgrid.</p> <p>Post-decommission report for the July 2, 2024 PPSs event, two severe wind events were forecasted to come in separate back to back waves. The first wind event meeting PPSs criteria occurred during overnight period of July 1-2 with a total fall in the winds that occurred during the day of July 2. The second forecasted wave of critical the weather conditions meeting our PPSs criteria was forecasted to occur after evening which allowed us to patrol and temporarily to energize the portion of the customers who were impacted by the first wave to allow customers to cool their homes and charge their devices. On the evening of July 2, weather conditions deteriorated rapidly meeting our PPSs criteria and requiring us to de-energize a second time as a result of the second wave of severe weather conditions.</p> <p>Please see the following link for our July 2, 2024 post-decommission report: <a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a></p> <p>Generally, conditions that allow PG&amp;E to temporarily re-energize during PPSs events are the full or partial weather conditions. The full period needed to be removed from our crews to patrol following the weather all-clear. Weather "No-Clears" are called based on pre-defined, geographic areas and requiring of each weather station in each zone to that area.</p> <p>MMP-Discovery 2025-2028, CR, TURN_002-0009 Page 2 Please note that the specific conditions that arose during the July 2, 2024 event allowed PG&amp;E to temporarily re-energize a portion of the affected customers, but not each temporary re-energization is condition and event-specific and not a programmatic.</p>	A Mirale Full-Fry	4/10/2025	4/10/2025	4/10/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	6.2.7
8	TURN	002	TURN_002	8	No	TURN_002_OCR	<p>Section 7, page 170, states that "During the July 2, 2024 PPSs event, we were able to reduce the event duration for some customers by temporarily re-energizing a line that serves a portion of the impacted customers." and "July may offer temporary re-energization during future PPSs events where conditions allow." What conditions are necessary to replace partial or temporary re-energization during PPSs events?</p>	Section 7, page 170, states that "During the July 2, 2024 PPSs event, we were able to reduce the event duration for some customers by temporarily re-energizing a line that serves a portion of the impacted customers." and "July may offer temporary re-energization during future PPSs events where conditions allow." What conditions are necessary to replace partial or temporary re-energization during PPSs events?	A Mirale Full-Fry	4/10/2025	4/10/2025	4/10/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	7	Public Safety Power Shutoff	7
9	TURN	002	TURN_002	9	No	TURN_002_OCR	<p>Please fill in the values in the following table (all units are miles)</p>	<p>For hybrid undergrounding (partially underground and a combination of overhead hardening and/or re-energized) or cases where overhead removal data is unavailable, miles are calculated using a conversion factor: 1 mile of overhead equals 1.2 miles of undergrounding.</p> <p>MMP-Discovery 2025-2028, CR, TURN_002-0009 Page 2 * Since the templates do not request miles completed outside HFTDs, this response includes system hardening work under the Community Reliability Program.</p> <p>The original table requested both 2023 actuals and planned miles. We updated.</p>	A Mirale Full-Fry	4/10/2025	4/10/2025	4/10/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	1	No	8	Grid Design, Operations, and Maintenance	6.2.2
10	TURN	002	TURN_002	10	No	TURN_002_OCR	<p>Please provide a narrative explanation of the decision tree shown in figure 6.2.1.2, including any criteria that PG&amp;E intends to use to determine if conditions in the decision tree are met.</p> <p>a. Figure 6.2.1.2 appears to indicate that LG is preferred when CBR is 1 and within 50% of the CR or EPSS CBR or LG is 50% or CBR. Please explain the basis for the figure of 50%.</p> <p>b. It appears that the decision tree begins with LG as the default option and only moves to alternatives when certain criteria are not met. Why doesn't PG&amp;E begin with the more conservative hybrid approach and move to LG when absolutely necessary?</p> <p>c. Please identify and explain each and every criterion that is considered in determining "Are there Emissions/pressures concerns (permitted by PPSs heat)? Please provide a narrative explanation of the types of concerns and how they impact risk."</p> <p>d. Please provide a narrative explanation of the PPSs polygon and the effect on CCR.</p> <p>e. At any point in the decision tree, are the hybrid project CBRs calculated based on different permeation/contributions?</p>	<p>4. PG&amp;E is incorporating the Total Benefit Ratio (TBR) into our decision-making framework in articulation of the requirement as part of the 10-year Electrical Underpinning Plan (EUP). The Commission has stated that "the utility is not bound to select its mitigation strategy based solely on the CBRs produced by the Cost-Benefit Approach," supporting the concept that CBR does not need to be the sole determinant of risk mitigation strategies. This is because an over-emphasis on CBR evaluation (high cost / high benefit projects, CBR does not consider the absolute benefits and relative value of permanent risk mitigations, and when used as the sole criteria, results in situations where risk is permanently left on the system, including on circuit segments where undergrounding benefits are greater than those of overhead hardening.</p> <p>In our decision tree, CBR is used as the primary criteria for selecting mitigation measures. However, for undergrounding (UG) projects where the benefits are more favorable than On-harden (O-H), these projects will also be considered.</p> <p>Because the CBR analysis is not a perfect science, we are incorporating a range relative to the CBR of overhead hardening projects. The 50% threshold is a discretionary value intended to ensure that CBR analysis is not the sole determinant of risk mitigation strategies. The engineering team will weigh the full range of benefits, including integration of tree site data, reliability risks created by operational mitigations, and right-of-way considerations, which are often not fully quantified in CBR or risk calculations. In these cases, the CBR that also be greater than 1, indicating the benefits of the mitigation outweigh its costs.</p> <p>5. PG&amp;E's approach to system hardening has been, and continues to be, to begin with the mitigation alternative that permanently reduces the greatest amount of risk, which is undergrounding and the removal with remote grid. If these mitigations do not meet our economic decision criteria, we consider overhead hardening where it may be considered more effective than undergrounding.</p> <p>PG&amp;E describes what the tree criteria scores are and how they are calculated in our 2022 WMP PG&amp;E's Revised 2022 WMP, July 26, 2022, pages 584-585). The scores represent the number of faults that can be avoided and a hardened overhead line. Scores greater than or equal to 6 represent a moderate or greater benefit.</p>	A Mirale Full-Fry	4/10/2025	4/10/2025	4/10/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	6.2.1.2
11	CEIS	001	CEIS_001	1	No	CEIS_001_OT	<p>Significant Vegetation Management on 600 KV CR</p> <p>On page 410 of its 2025-2028 WMP, PG&amp;E lists "inspections" as the "Population size/Sample Unit" for VM-080, VM-081, VM-082, and VM-083. However, in the "Sample Size" column, PG&amp;E lists a different unit, listing the number of miles (VM-080, VM-081, and VM-082) and acres (VM-083), that it will audit.</p> <p>a. Define what constitutes an "inspection" unit.</p> <p>b. Clarify whether PG&amp;E is auditing all work performed and not performed along the length of the sample spans/miles, or discrete documented "inspections" within those spans/miles.</p> <p>c. If PG&amp;E audits discrete inspections rather than the entire length of a span/mile, reproduce Table 9.4 "Vegetation Management QA and QC Activity" with an estimated total number of inspections it could potentially audit under the 2026, 2027, and 2028 "Population Size" column.</p> <p>d. An estimated number of inspections PG&amp;E plans to audit under the 2026, 2027, and 2028 "Sample Size" column.</p> <p>e. For VM-080 units, PG&amp;E lists "miles" in "Population Size" column, "square" in "Sample Size", and "inspections" in "Inspection Size" column.</p> <p>On page 410 of its 2025-2028 WMP, PG&amp;E specifies that 100% of QA/QC samples are from locations within the HFTD.</p> <p>a. Does PG&amp;E perform QA/QC in its HFTAs?</p> <p>b. If yes, describe its QA/QC program in its HFTAs.</p> <p>c. If not, why does it not audit its QA/QC program in its HFTAs?</p> <p>d. Does PG&amp;E perform QA/QC in non-HFTD areas?</p> <p>e. If yes, describe its QA/QC program in non-HFTD areas.</p> <p>f. If not, why does it not audit its QA/QC program in non-HFTD areas?</p>	<p>4. For VM-082 O&amp;T, an inspection unit will be the location of overhead electric facilities inspected by Vegetation Management (VM) Operations.</p> <p>5. For VM-083 O&amp;T, an inspection unit will consist of overhead line segments. QA/QC work will be performed along the length of the sample spans/miles/locations. Both audit VM inspection and/or post-Treat work activities can be evaluated.</p> <p>a. N/A, please see response B.</p> <p>b. N/A.</p> <p>c. The population provides the total estimated volume of overhead transmission facilities in HFTD. The sample size is the maximum volume of VM QC transmission inspected locations to verify. As noted above, for VM-082, an inspection unit will be the location of overhead electric facilities inspected by Vegetation Management (VM) Operations. See the footnote above for more detail.</p> <p>d. Yes, QC and QA will perform assessments in HFTAs.</p> <p>e. PG&amp;E QA/QC will be conducted the same in HFTAs as elsewhere.</p> <p>f. N/A.</p> <p>g. Yes, QC and QA will perform assessments in both HFTD and non-HFTD areas.</p> <p>h. PG&amp;E QA and QC will be conducted the same in non-HFTD as elsewhere.</p> <p>i. N/A.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	9	Vegetation Management & Inspections	9.11
12	CEIS	001	CEIS_001	2	No	CEIS_001_OT	<p>On page 410 of its 2025-2028 WMP, PG&amp;E specifies that 100% of QA/QC samples are from locations within the HFTD.</p> <p>a. Does PG&amp;E perform QA/QC in its HFTAs?</p> <p>b. If yes, describe its QA/QC program in its HFTAs.</p> <p>c. If not, why does it not audit its QA/QC program in its HFTAs?</p> <p>d. Does PG&amp;E perform QA/QC in non-HFTD areas?</p> <p>e. If yes, describe its QA/QC program in non-HFTD areas.</p> <p>f. If not, why does it not audit its QA/QC program in non-HFTD areas?</p>	<p>4. Yes, QC and QA will perform assessments in HFTAs.</p> <p>5. PG&amp;E QA/QC will be conducted the same in HFTAs as elsewhere.</p> <p>f. N/A.</p> <p>g. Yes, QC and QA will perform assessments in both HFTD and non-HFTD areas.</p> <p>h. PG&amp;E QA and QC will be conducted the same in non-HFTD as elsewhere.</p> <p>i. N/A.</p>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf">https://www.pge.com/content/dam/pgenergy/docs/turn/turn_002_ocrs.pdf</a>	0	No	9	Vegetation Management & Inspections	9.11







21	OES	001	OES_001	11	No	OES_001_Q11	Regarding Enterprise System Qualitative Targets On page 155-156 of a VMW, PG&E provides qualitative target ES-01. Provide the current data quality, profiling, and monitoring practices used for VM data. Provide the data quality, profiling, and monitoring practices planned for use under ES-01. c. List the datasets that have been identified as critical for VM execution.	<ul style="list-style-type: none"> <li>Our current data quality, profiling, and monitoring practices occur in three phases: <ul style="list-style-type: none"> <li>MANAGE <ul style="list-style-type: none"> <li>Define – develop dataset inventory</li> <li>Own – identify owners for the critical dataset</li> <li>Metadata – provide the information needed to use the data</li> <li>Critical data elements – list the critical data elements to be managed</li> <li>Standards – define required data standards needed</li> <li>Profile – analyze the critical data elements</li> <li>Rules – define business rules to ensure the data meets quality requirements</li> <li>Retain – determine retention timeline length for the dataset</li> <li>MITIGATE <ul style="list-style-type: none"> <li>Test – build tests to measure quality data</li> <li>Maintain <ul style="list-style-type: none"> <li>Measure – identify data that fails quality standards</li> <li>Control – identify control points in the process that need to be managed</li> <li>Cleanse – conduct actions to remove or improve poor quality data</li> <li>Monitor – ensure remediation actions complete and data maintains quality over time</li> <li>Dispose – determine when and how to dispose of dataset records</li> </ul> </li> <li>MAINTAIN <ul style="list-style-type: none"> <li>Stability – ensure data maintains its quality over time</li> <li>Maturity – update the process, the controls, and the data</li> <li>We will continue to apply the prior mentioned practices of MANAGE, MITIGATE, MAINTAIN against remaining unmanaged critical data sets</li> </ul> </li> </ul> </li> <li>There are currently 28 critical datasets for VM execution. The number and specific datasets are subject to change as execution needs change. Please see list below: <ul style="list-style-type: none"> <li>Account</li> <li>Asset</li> <li>AssignedResource</li> <li>Case</li> </ul> </li> </ul> </li> </ul> </li></ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	12	Enterprise Systems	12.2
22	OES	001	OES_001	12	No	OES_001_Q12	Regarding PG&E-2018-08 Reinspection of Trees in Tree Removal Inventory On page 582 of a VMW, PG&E provides a response to PG&E-2018-08 indicating "In late 2024, PG&E began testing a pilot to re-evaluate trees listed for work within Shasta County." Provide pilot study procedures b. Provide pilot schedule c. Provide any study results	<ul style="list-style-type: none"> <li>PG&amp;E-2018-08 Reinspection of Trees in Tree Removal Inventory (TRM) program process for a Level 2 inspection by a Tree Risk Assessment Qualified (TRAQ)-certified arborist. The process was followed for all Tree Assessment Unit (TAU) Active vegetation points with a record of "Yes" in the system of record (Shasta County).</li> <li>The field execution of the Pilot began in Quarter 4 of 2024 for Level 2 Inspections performed by a TRAQ-certified arborist and the subsequent Board-Certified Master Arborist reviews.</li> <li>A Level 2 field inspection by TRAQ-certified arborists were completed in Q4 2025.</li> <li>Any remaining Board-Certified Master Arborist reviews are expected to be completed in Q1-Q2 2025.</li> <li>Phase note: Subsequent to the field collection of data, PG&amp;E plans to analyze the results of the pilot and evaluate recommended next steps by Q4 2025.</li> <li>VMW-Discovery 2025-2028_DR_OES_001-Q012 Page 2</li> <li>The study is pending completion and subsequent documentation. Documentation will be analyzed by Q4 2025 for recommendations. The recommendations resulting from the findings of the pilot are also dependent on continued feedback.</li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	9	Vegetation Management & Inspections	9.2.1
23	OES	001	OES_001	13	No	OES_001_Q13	Regarding Wood and Slash Management Tracking Section 6.3.3 of PG&E's 2025-2028 VMW states that "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 project completion across PG&E's service area, unless affected by weather, field conditions, or other constraints" (p. 381). a. Does PG&E document and track the management of slash and woody debris that is a byproduct of VM work? b. Describe the documentation and record keeping methods used. c. List the data fields that are recorded as part of the wood and slash debris management tracking process. d. If yes, explain. e. How PG&E accounts wood and slash management is completed in all VM treatment areas according to the Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. f. How PG&E plans to integrate wood and slash debris management tracking into internal procedures and/or tracking the completion of other VM orders.	<ul style="list-style-type: none"> <li>PG&amp;E tracks wood and slash management or slash and woody debris, vegetation material less than 12 inches in diameter.</li> <li>N/A</li> <li>VMW-Discovery 2025-2028_DR_OES_001-Q013 Page 2</li> <li>See below:</li> <li>A. There is no language in the Utility Standard, TD-71165 or the Utility Procedures, TD-7116P-01 requiring vegetation management (VM) crews to the management of slash and woody debris.</li> <li>PG&amp;E directs its VM crews to complete debris treatment in coordination with the tree work. This expectation is clearly defined in our contract identification, "Specific Conditions No. 1404 for Vegetation Management (VM) Tree Trimming and Brush Removal." When tree work is logged as complete in the database by VM crews, it implies that the crews have also completed the associated debris treatment.</li> <li>For reference, here is a screenshot of the contract language from Exhibit J, Page 47 of the "Specific Conditions No. 1404 for Vegetation Management (VM) Tree Trimming and Brush Removal."</li> <li>B. PG&amp;E has no plans to integrate wood and slash debris management into its VM management process.</li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	9	Vegetation Management & Inspections	9.5
24	OES	001	OES_001	14	No	OES_001_Q14	Regarding Wood and Slash Management Impacts on Wildlife Risk PG&E-236-16, Updating Wood Management Procedure, requires an updated Wood Management Procedure that "Specifies the wildlife risk related to accumulated fuels generated by PG&E vegetation management activities." On page 582 of a VMW, PG&E states that updates to Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01 include "Agreement to industry practices related to accumulated fuels generated by VM activities." a. Explain why industry practices PG&E is referring to. b. Explain how wildlife risk related to accumulated fuels generated by PG&E's vegetation management activities is considered in Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01.	<ul style="list-style-type: none"> <li>The utility vegetation management process is necessary to maintain safety and prevent damage to infrastructure. In response to these concerns, we are aligning with industry practices which includes expediting wood management efforts by all customers and land managers upon request, within a defined scope and across all vegetation management programs. The alignment with industry best practices is documented in our response to question 15 specifically referencing prior and future scheduled benchmarking activities with SOG&amp;E, SCE and Liberty Utilities.</li> <li>In addition to expediting wood management efforts as described above, our Wood Management Procedures align with defensible space requirements and expectations outlined in the State of California Public Resource Code (PRC) Section 4291 and California Code of Regulation (CCR) Title 14 Section 1290.03. Our scope includes wood management within the following zones: <ul style="list-style-type: none"> <li>100 feet of a human inhabitable structure, structure footprint, or campsite</li> <li>Vegetative material located within 15 feet of the access road to a human inhabitable structure, structure footprint, or campsite</li> <li>Vegetative material located within 15 feet of an outbuilding or propane</li> </ul> </li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	9	Vegetation Management & Inspections	9.5
25	OES	001	OES_001	15	No	OES_001_Q15	Regarding wood and slash management benchmarking In response to PG&E-236-16, Updating Wood Management Procedure, PG&E states that benchmarking with SCE and SOG&E to discuss wood management began in 2023 (p. 588) and benchmarking is targeted to be completed by September 30, 2024 (p. 294). These discussions with SCE and SOG&E and a review of Liberty's procedures have "helped shape" the new Wood Management Standard and Procedures. Though "identical or consistent approach across utilities, PG&E aligned and updated our Standard and Procedures to reflect the common ground of PRC 4291 (p. 588). Future benchmarking meeting topics are expected to include coordination of whether each utility's respective wood management policy met the required progress outlined in the area for continued improvement (p. 587). a. Explain why PG&E plans for the benchmarking effort spans over five years. b. Describe common and uncommon practices between PG&E, SCE, and Liberty that have been identified during the benchmarking effort; explain how each common practice was determined to be included or excluded from PG&E's updated Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. c. Describe specific outcomes from the benchmarking effort and clarify how these outcomes relate to specific updates in the Utility Standard, TD-71165 and Utility Procedures, TD-7116P-01. d. Compare PG&E's past wood management procedure (prior to benchmarking) to the updated wood management procedure and describe how updates in the procedure meet the required progress of PG&E-236-16.	<ul style="list-style-type: none"> <li>The utility vegetation management process is necessary to maintain safety and prevent damage to infrastructure. In response to these concerns, we are aligning with industry practices which includes expediting wood management efforts by all customers and land managers upon request, within a defined scope and across all vegetation management programs. The alignment with industry best practices is documented in our response to question 15 specifically referencing prior and future scheduled benchmarking activities with SOG&amp;E, SCE and Liberty Utilities.</li> <li>In addition to expediting wood management efforts as described above, our Wood Management Procedures align with defensible space requirements and expectations outlined in the State of California Public Resource Code (PRC) Section 4291 and California Code of Regulation (CCR) Title 14 Section 1290.03. Our scope includes wood management within the following zones: <ul style="list-style-type: none"> <li>100 feet of a human inhabitable structure, structure footprint, or campsite</li> <li>Vegetative material located within 15 feet of the access road to a human inhabitable structure, structure footprint, or campsite</li> <li>Vegetative material located within 15 feet of an outbuilding or propane</li> </ul> </li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	9	Vegetation Management & Inspections	9.5
26	OES	001	OES_001	16	No	OES_001_Q16	Regarding Integrated Vegetation Management Reassessment and Treatment Timing In section 9.7.3 VM Benchmarking, PG&E states that, "For VMW, previously tested RCWs are reassessed every 2-4 years" (p. 388). The 2025-2028 VMW does not describe how the need for reassessment of Transmission RCWs is determined. In contrast, PG&E's 2023-2025 VMW provided threshold triggers for reassessment of vegetation, including "compensable vegetation exceeding 3.5 in height and/or when compensable vegetation is greater than 50 percent ground coverage within the RCW" (p. 465). a. Describe the rationale conducting reassessment every 2-4 years cycle and what factor (e.g., species, growth rates, percent cover, height) were used to define this timeframe. b. Clarify the threshold triggers PG&E will use to determine the need for reassessment of vegetation in transmission RCWs during the 2025-2028 VMW cycle.	<ul style="list-style-type: none"> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	9	Vegetation Management & Inspections	9.7.2
27	OES	001	OES_001	17	No	OES_001_Q17	Regarding Covered Conductor Line Removal and Mitigation On page 185 of the 2025-2028 Basic VMW, PG&E states "PG&E's System Hardening GH-12 initiative includes overhead line removal, specifically covered conductor installation and the removal, including removal of: a. Covered Conductor b. Line Removal c. Mitigation	<ul style="list-style-type: none"> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> <li>PG&amp;E will reassess the RCW on a 2-year cycle to ensure that the RCW is still valid and to ensure that the RCW is still valid and to ensure that the RCW is still valid.</li> </ul>	Nathan Poon	4/8/2025	4/11/2025	4/11/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	1	No	8	Grid Design, Operations, and Maintenance	8.2.18.2/8.2.7
28	OES	001	OES_001	18	No	OES_001_Q18	Regarding site transmission power lines a. How many circuit miles of site transmission lines does PG&E have in the HFTD and HFRA? b. Do any of these site transmission lines run parallel, and in close proximity to energized transmission lines? c. Are any of these site transmission lines planned for removal in 2025 to 2027? d. If yes, explain. e. Explain why removal is not planned. f. Explain if any of these lines could become energized through induction.	<ul style="list-style-type: none"> <li>PG&amp;E has 100 miles of site transmission lines in the HFTD and HFRA.</li> <li>One of these lines runs parallel and close to energized Distribution lines (HFTD and HFRA).</li> <li>N/A</li> <li>PG&amp;E plans to remove two of the three lines in 2025. The third line is planned for removal at this time but is being evaluated for the potential induction mitigation and the removal of these lines is not planned because these are not part of the Overhead and Line Removal - Distribution (OLR) (GH-12) initiative. Instead, removal goals evaluate the removal of these lines and is included in the line removal activity.</li> <li>See attachment "VMW-Discovery 2025-2028_DR_OES_001-Q018-018" also with the</li> </ul>	Nathan Poon	4/8/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf">https://www.pge.com/customerhelp/vegetation/docs/and-safety/vegetation-management-and-safety/2025-04-08-vmw.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	8.2.5.1



















59	OES	002	OES_002	5	No	OES_002_08	<p>Regarding distribution detailed aerial and ground inspections</p> <p>On page 258 of a WMP, PG&amp;E sets a target of 275,000 distribution detailed inspections per year for 2025-2028. The target states the inspections can be either ground or aerial separate targets are not provided for aerial and ground inspections.</p> <p>A. Provide the following information related to scheduling aerial and ground inspections</p> <p>Does PG&amp;E have controls in place to avoid an asset being only subject to one variety of detailed inspection extended periods of time? (i.e., an asset in an area of extreme consequence and extreme wildfire risk only having detailed aerial inspections for 10 years). Provide PG&amp;E's reasoning for its chosen approach.</p> <p>Some hazardous conditions may be less likely identified via ground inspections while others may be less likely identified via aerial inspections.</p> <p>B. Provide a list of conditions that PG&amp;E has recognized as being more likely identified via aerial inspections and less likely identified via ground inspections. Provide a brief explanation for each condition.</p> <p>A. If PG&amp;E has not recognized any such conditions, briefly discuss its reasoning.</p> <p>B. Provide a list of conditions that PG&amp;E has recognized as being more likely identified via ground inspections and less likely identified via aerial inspections. Provide a brief explanation for each condition.</p> <p>A. If PG&amp;E has not recognized any such conditions, briefly discuss its reasoning.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	8.8
60	OES	002	OES_002	6	No	OES_002_08	<p>Regarding transmission detailed aerial and ground inspections</p> <p>On page 258 of a WMP, PG&amp;E sets a target of 22,000 transmission detailed inspections per year. The target states the inspections can be either ground or aerial, separate targets are not provided for detailed aerial or detailed ground inspections.</p> <p>A. Provide supporting documentation for transmission detailed inspections, including any job aids, procedural documentation, or inspector checklists. Identify any documents that are unique to aerial or ground inspections.</p> <p>B. Provide the following information related to scheduling aerial and ground inspections.</p> <p>Does PG&amp;E have controls in place to avoid an asset being only subject to one variety of detailed inspection extended periods of time? (i.e., an asset only receiving detailed aerial inspections for 10 years). Provide PG&amp;E's reasoning for its chosen approach.</p> <p>Some hazardous conditions may be less likely identified via ground inspections while others may be less likely identified via aerial inspections.</p> <p>C. Provide a list of conditions that PG&amp;E has recognized as being more likely identified via aerial inspections and less likely identified via ground inspections. Provide a brief explanation for each condition.</p> <p>A. If PG&amp;E has not recognized any such conditions, briefly discuss its reasoning.</p> <p>B. Provide a list of conditions that PG&amp;E has recognized as being more likely identified via ground inspections and less likely identified via aerial inspections. Provide a brief explanation for each condition.</p> <p>A. If PG&amp;E has not recognized any such conditions, briefly discuss its reasoning.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf</a>	1	No	8	Grid Design, Operations, and Maintenance	8.8.1
61	OES	002	OES_002	7	No	OES_002_07	<p>Regarding transmission switch function testing</p> <p>PG&amp;E does not provide a target for its transmission switch function testing inspection program in its 2026-2028 Base WMP. However, of the ten inspection activities listed under transmission switch function testing, PG&amp;E's highest first rate of level 1 conditions and the fourth highest first rate of level 2 conditions.</p> <p>A. Briefly discuss PG&amp;E's reasoning for not including a compliance target for transmission switch testing.</p> <p>B. Provide the following data for transmission switch testing:</p> <ol style="list-style-type: none"> <li>The total number of transmission switches in the WFTD area in 2022, 2023, and 2024.</li> <li>The number of level 1 conditions identified in 2022, 2023, and 2024.</li> <li>The number of level 2 conditions identified in 2022, 2023, and 2024.</li> <li>The number of level 1 conditions with associated safety risk identified in 2022, 2023, and 2024.</li> <li>The number of level 2 conditions identified in 2022, 2023, and 2024.</li> </ol> <p>C. Provide a list of conditions with associated safety risk identified in 2022, 2023, and 2024.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-007.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-007.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	8.8.5
62	OES	002	OES_002	8	No	OES_002_08	<p>Regarding vegetation inspections and pole clearing targets</p> <p>On WMP page 358, PG&amp;E provides quantitative targets for its vegetation inspection and vegetation management programs. For the column "to HFTD Control" in 2025, PG&amp;E provided the percentage of the 2026 target that is performed within the HFTD. The WMP Guidelines (page 104) defines this column as the percentage of total overhead circuit miles in the HFTD covered by the "Year 1" target (i.e., 70 circuit miles).</p> <p>A. If partial inspections in "Year 1" defined by 300 overhead circuit miles in the HFTD equals 33 percent coverage, provide the equation PG&amp;E used to calculate this.</p> <p>B. If PG&amp;E used a different equation other than the one defined in the Guidelines, provide "to HFTD in 2026" figures for each of PG&amp;E's targets in Table 3-2 using the calculation defined in the WMP Guidelines. For targets that do not use overhead circuit miles as a unit, the equation should be the total number of the unit against the HFTD.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-008.pdf</a>	0	No	9	Vegetation Management & Inspections	9.4
63	OES	002	OES_002	9	No	OES_002_09	<p>Regarding Distribution Routine Patrol quantitative targets (VM-13)</p> <p>On WMP page 358, PG&amp;E sets cumulative quarterly targets for Q4 in 2026, 2027, and 2028 of 78,000, 77,800, and 77,500 circuit miles respectively. The same annual targets of 400 miles from 2026 to 2027, and 300 miles from 2027 to 2028.</p> <p>A. If PG&amp;E used a different equation other than the one defined in the Guidelines, provide "to HFTD in 2026" figures for each of PG&amp;E's targets in Table 3-2 using the calculation defined in the WMP Guidelines. For targets that do not use overhead circuit miles as a unit, the equation should be the total number of the unit against the HFTD.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-009.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-009.pdf</a>	0	No	9	Vegetation Management & Inspections	9.1.2
64	OES	002	OES_002	10	No	OES_002_10	<p>Regarding PG&amp;E's Risk Clearing Program target (VM-02)</p> <p>On page 364 of its 2026-2028 Base WMP, PG&amp;E sets cumulative quarterly targets for Q4 in 2026, 2027, and 2028 of 70,000 distribution poles.</p> <p>A. Clarify whether PG&amp;E's target is to clear vegetation around 70,000 distribution poles or inspect 70,000 distribution poles and clear vegetation at those poles only as needed.</p> <p>B. Of the 70,000 poles targeted for pole clearing specify how many of those poles:</p> <ol style="list-style-type: none"> <li>Are required to be cleared under Public Resource Code (PRC) 4202.</li> <li>Are not required to be cleared under PRC 4202.</li> </ol>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-010.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-010.pdf</a>	0	No	9	Vegetation Management & Inspections	9.4
65	OES	002	OES_002	11	No	OES_002_11	<p>Regarding PG&amp;E's Risk Clearing Program target (VM-02)</p> <p>On page 364 of its 2026-2028 WMP, PG&amp;E defines "circuit" for determining which (b)(6) species warrant increased scrutiny during Focused Tree Inspections and other inspections. PG&amp;E states that a species' vegetation management inspection (VM) historical outage data and developed a "threshold" (b)(6) when the tree is off down to the circuit or CPZ or close to historical outage and ignition causes a species, diameter, and/or location.</p> <p>A. To PG&amp;E able to calculate outage and ignition probabilities by tree species at the CPZ level?</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-011.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-011.pdf</a>	0	No	ACI PG&E-236-15	ACI PG&E-236-15	ACI PG&E-236-15
67	OES	002	OES_002	12	No	OES_002_12	<p>Regarding Integrated Vegetation Management (VM-15)</p> <p>On page 364 of its 2026-2028 WMP, PG&amp;E states that "The VM Transmission Integrated Vegetation Management LCMR plan, assesses vegetation conditions by electric transmission line (ETL)." On page 368, PG&amp;E targets 17,800 miles annually for its Routine Transmission Patrol (VM-13), and 5,000 circuit miles annually for its Transmission Hazard Patrol (VM-14).</p> <p>A. On the Routine Transmission Patrol (VM-13) and the Transmission Hazard Patrol (VM-14) also capture the LCMR data used for TMAP?</p> <p>B. List the number of circuit miles PG&amp;E inspects annually using LCMR to assess transmission rights-of-way for VM.</p>	Nathan Poon	4/11/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-012.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-012.pdf</a>	0	No	9	Vegetation Management & Inspections	9.7
68	OES	002	OES_002	13	No	OES_002_13	<p>Regarding risk model documentation</p> <p>A. Page 8 of PG&amp;E's Distribution Event Probability Models Version 4 (DEPM v4) Documentation includes "Risk Algorithms and Methodologies" under a list of documents as part of the documentation for the Wildfire Distribution Risk Model (WDRM v4). Provide a copy of this document.</p> <p>B. Page 24, Risk Model Plan - NORM states that PG&amp;E's Wildfire Distribution Risk Model v4 (WDRM v4) Documentation shows that the following components are not included in the WDRM plan: Insulated Conductor Update, Public Safety Risk Model v1, Reliability Risk Model v1, Public Safety Consequence v1, and Reliability Consequence v1.</p> <p>C. Why are these components not included in NORM plan?</p> <p>D. Provide documentation that captures and discusses these components, similar to the documentations available for the DEPM v4, WDRM v4, and WRC v4.</p>	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-013.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-013.pdf</a>	1	No	Appendix B	Supporting Documentation for Risk Methodology	Appendix B
69	OES	002	OES_002	14	No	OES_002_14	<p>Regarding suppression and agrees impacts</p> <p>On page 32 of PG&amp;E's Wildfire Consequence Model Version 4 (WCM v4) Documentation, PG&amp;E states that "This was not the original objective for adding the wildfire suppression and public Egress impacts, resulting in additional efforts to validate the result and confirm the model development." When discussing the adjusted consequence curves and associated impacts associated with mitigating the wildfire risk?</p> <p>A. How did any efforts resulting in response to the validation impact the consequence curve?</p> <p>B. What "additional efforts" were completed for model development as a result of this finding?</p> <p>C. How did any efforts resulting in response to the validation impact the consequence curve? Provide copies of the same before and after.</p> <p>D. Provide a step-by-step process showing how PG&amp;E calculated the associated mileage of work needed to mitigate 60% of the wildfire risk showing how PG&amp;E calculated the associated mileage of work needed to mitigate 60% of the wildfire risk before and after.</p>	Nathan Poon	4/11/2025	4/21/2025	4/21/2025	<a href="https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-014.pdf">https://www.pge.com/content/dam/pgenergy/docs/2025-02-04-002-014.pdf</a>	0	No	5	Risk Methodology & Assessment	5.4



70	OES	002	OES_002	15	No	OES_002_Q15	215. Regarding PG&E's Ignition Investigation Process (Figure PG&E-4.1.3-1.2: Summary of Ignition Investigation Process, on page 123 of PG&E's 2026-2028 Base WMP) includes a step for "Corrective Actions Generated and Assigned". a. Provide a list of corrective actions generated by the Ignition Investigation team that have led to changes in PG&E's wildfire mitigation efforts since PG&E's 2023-2025 Base WMP. b. Provide a list of ignitions, including causes and locations, associated with the changes discussed in part (a).	Many of the mitigation actions generated by single incidents are isolated on the large incidents and do not directly lead to changes in PG&E's wildfire mitigation efforts. However, PG&E conducts trend analyses to identify possible corrective actions, including corrective actions associated with some of PG&E's wildfire mitigation programs. The corrective actions listed below, which did lead to changes in our wildfire mitigation efforts, are based on trend analyses across many incidents along with input from subject matter experts who contribute to the investigation. The table below includes the mitigation efforts that have resulted from analyzing trends generated from the Ignition Investigation team along with various example ignitions associated with those corrective actions and causes thereof. Corrective Action Example Associated Indexes Cause Location Improvements to High Vulnerability Fuel Protection Including implementing lower sensitive ground fuel treatments and high 2023/03/01, 2023/06/02, 2023/07/02, 2023/08/01, Various Various WMP/Discovery 2026-2028, DR_OES_002-Q015 Page 2 Corrective Action Example Associated Indexes Cause Location Ignition had detection on (see with circuit) 2023/07/03, 2023/07/04, 2023/08/01 Expanded Ground Vegetation Clearing around Piles 2023/08/02, 2023/08/03, 2024/08/03, 2024/08/07, 2024/10/04 Various Various	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	0	No	ACI PG&E-250-01	Outage-to-Ignition Risk Analyses	ACI PG&E-250-01
71	OES	002	OES_002	16	No	OES_002_Q16	a. Expanded Table 5-5 with requested data is provided in "WMP/Discovery/2026-2028_DR_OES_002-Q016A/Excel.xlsx". b. PSPS Risk score c. HFTD Designation, including percentage by circuit mileage that falls in each designation (HFTD Tier I, HFTD Tier II, see HFTD/PSA, and see HFTD/PSA/PSA).	a. Expanded Table 5-5 with requested data is provided in "WMP/Discovery/2026-2028_DR_OES_002-Q016A/Excel.xlsx". b. PSPS Risk score c. HFTD Designation, including percentage by circuit mileage that falls in each designation (HFTD Tier I, HFTD Tier II, see HFTD/PSA, and see HFTD/PSA/PSA).	Nathan Poon	4/1/2025	4/21/2025	4/21/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	1	No	5	Risk Methodology & Assessment	5.5.2
72	OES	002	OES_002	17	No	OES_002_Q17	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP via Excel with the following additions: a. The associated circuit mileage for each of the following activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP via Excel with the following additions: a. The associated circuit mileage for each of the following activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Nathan Poon	4/1/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	1	No	5	Risk Methodology & Assessment	5.5.2
72	OES	002	OES_002	17(a)	Yes	OES_002_Q17(a)	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP via Excel with the following additions: a. The associated circuit mileage for each of the following activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Regarding Table 6-4: Summary of Risk Reduction for Top Risk Circuits Provide a copy of Table 6-4: Summary of Risk Reduction for Top Risk Circuits from the 2026-2028 Base WMP via Excel with the following additions: a. The associated circuit mileage for each of the following activities (conductor installation, undergrounding, and line removal) planned for each circuit segment for each year of the Base WMP (2026-2028). b. The percentage (by circuit mileage) in which each circuit segment has already been planned for hardening as part of a previous Wildfire Mitigation Plan up to 2025, broken out by type of hardening.	Nathan Poon	4/1/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	1	No	5	Risk Methodology & Assessment	5.5.2
73	OES	002	OES_002	18	No	OES_002_Q18	Regarding Independent Review of PG&E's Wildfire Risk Model For each of the following recommendations made in the E3 Review of PG&E's Wildfire Risk Model Version 4, provide a description of 1) the progress/improvements made, 2) the current status, 3) the timeline/completion date for addressing the recommendation, and 4) the model(s) and associated version impacted by implementing the recommendation. a. Right size development efforts based on importance and impact (pp. 11, 36, 51, 59). b. Justify and seek improvements for model approaches that dilute valuable upstream detail: consequence timing and conservative age logic (pp. 11, 46, 55, 59). c. Report risk uncertainty in outputs and develop a process to understand how individual modeling updates impact results (pp. 12, 31, 60). d. Incorporate air quality and health impacts (pp. 13, 57, 60). e. Increase collaboration between modeling efforts (pp. 37). f. Diversify model validation procedures (p. 49). g. Improve transparency and assessment of proprietary wildfire spread modeling and the wildfire consequence model at large (p. 56). h. Consider the differences in mitigation timelines (p. 56).	PG&E continuously manages and adjusts the resources dedicated to the development of the WDRM and WTRM models based on regulatory requirements and PG&E user needs. As managing resources is an ongoing effort to respond to changing internal and external needs, there are no committed resource targets and timelines to be tracked. b. Consequence timing and conservative age logic c. Consequence age logic: Initial improvements to the conservative age logic have already been released with the latest WTRM model release. The improvements are ongoing and will continue to improve with each new model release. d. Consequence timing: PG&E is investigating methods to create a wildfire consequence output with a confirmed distribution, aiming to replace the eight consequence regimes from version 4. If any of these methods demonstrate predictive accuracy during validation and review, they will be incorporated into version 5 of the Wildfire Consequence model. e. Report risk uncertainty in outputs and develop a process to understand how individual modeling updates impact results f. This E3 recommendation proposes that a detailed methodology be adopted for mitigation project selection, which would in turn require specific risk model functionality development. PG&E does not plan to commit any resources for this recommendation until the proposed methodology has been thoroughly discussed and a decision has been made to change from the current risk ranking process. g. Incorporate air quality and health impacts h. This E3 recommendation is targeted at all OJUs and the State of CA. While this is an area of interest for PG&E research, there are currently no committed development objectives for these impacts. i. Increase collaboration between modeling efforts PG&E has already implemented E3's recommendation to improve the collaboration and modeling efforts. The PG&E Risk and Data Analytics (RD&A) team that produces the WDRM and WTRM models was reorganized in late 2023. The data scientists that produce the worst probability models for distribution and transmission events now belong to a common data science team. For several shared events, the same data	Nathan Poon	4/1/2025	4/21/2025	4/21/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	0	No	5	Risk Methodology & Assessment	5.4
74	SPD	001	SPD_001	1	No	SPD_001_Q1	Provide the confidential versions of PG&E's 2026-2028 Wildfire Mitigation Plan (WMP) and any confidential associated documents or attachments submitted to the Office of Energy Infrastructure and Safety not currently on PG&E's Community Wildfire Safety Program Website (Community Wildfire Safety Program).	PG&E did not submit a confidential version of its 2026-2028 Wildfire Mitigation Plan or any confidential associated documents or attachments.	Eddie Schmitt	4/15/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	0	No	NA	NA	NA
75	SPD	001	SPD_001	2	No	SPD_001_Q2	The PG&E's 2023-2025 WMP contained attachments POE_2023_WMP_R0_Appendix D ACI PG&E-22-10_A0001, Redacted.xlsx and POE_2023_WMP_R0_Section_042_A0001.xlsx. Submit equivalent documents for the 2026-2028 WMP. Schedule a meeting with SPD if equivalent documents do not exist.	With regard to the 2023-2025 WMP attachment titled "POE_2023_WMP_R0_Appendix D ACI PG&E-22-10_A0001, Redacted.xlsx," PG&E does not have the information readily available in the format requested. We are compiling it and will supplement the response by Friday, April 18, 2025. With regard to the 2023-2025 WMP attachment titled "POE_2023_WMP_R0_Section_042_A0001, Redacted.xlsx," please refer to Table 6-4 included in Attachment F of PG&E's 2026-2028 WMP.	Eddie Schmitt	4/15/2025	4/16/2025	4/16/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	0	No	6	Wildfire Mitigation Strategy Development	6
75	SPD	001	SPD_001	2(a)	Yes	SPD_001_Q2(a)	The PG&E's 2023-2025 WMP contained attachments POE_2023_WMP_R0_Appendix D ACI PG&E-22-10_A0001, Redacted.xlsx and POE_2023_WMP_R0_Section_042_A0001.xlsx. Submit equivalent documents for the 2026-2028 WMP. Schedule a meeting with SPD if equivalent documents do not exist.	With regard to the 2023-2025 WMP attachment titled "POE_2023_WMP_R0_Appendix D ACI PG&E-22-10_A0001, Redacted.xlsx," PG&E does not have the information readily available in the format requested. We are compiling it and will supplement the response by Friday, April 18, 2025. With regard to the 2023-2025 WMP attachment titled "POE_2023_WMP_R0_Section_042_A0001, Redacted.xlsx," please refer to Table 6-4 included in Attachment F of PG&E's 2026-2028 WMP.	Eddie Schmitt	4/15/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf">https://www.pge.com/en/na/ignition-investigations-and-safety/wildfire-prevention-and-safety/2026-wmp_001.pdf</a>	1	No	6	Wildfire Mitigation Strategy Development	6















[illegible]







122	OEIS	004	OEIS_004	1	No	OEIS_04_01	<p>Regarding Third-Party Model Review</p> <p>a. On page 12 of the review status for the main driver for consequence is the PFN score which further reflects the impacts of the 10-mph simulations coming from the Technisys analysis. On page 10 of the Wildlife Consequence Model V4 document, two criteria are mentioned for the predictive destructive criteria, one for PFN-R and one for the Technisys simulations.</p> <p>b. Out of the simulated weather history, how many days from 2012 through 2022 have met each criterion in the higher risk circuit?</p> <p>c. Provide a detailed description of how PFN-R compared to predictive destructive criteria influence the consequence score.</p>	<p>The criteria for "predicted destructive" are computed for every 100000m raster pixel covering grid infrastructure. We confirmed that the request is for the simulation of days where at least one grid pixel containing part of each high risk circuit segment meets each of the "predicted destructive" criteria. There are 30 high risk circuit segments in Tables 5-5 and 5-1 of the 2020 MWP. In those were used for the analysis. The results of which are tabulated in "MWP-Discovery2020-2028_DR_OEIS_004-0001A001.xlsx" in the worksheet titled "Predicted Destructive days".</p> <p>The predicted destructive criteria draw on two different sources of information:</p> <p>1. The predictions of the PFN model, an empirical model trained on historical fire outcomes conditioned on weather and environmental covariates, via its 1-5 Risk Score (4+ are classified as predicted destructive conditions). The Risk Score expresses how likely a destructive fire is, given the fire conditions.</p> <p>2. Based on model fit using outcomes of historical fires. These values are available and tabulated in the "Predictive Destructive" worksheet in the "MWP-Discovery2020-2028_DR_OEIS_004-0001A001.xlsx" file.</p> <p>3. The results of the fire simulation model, which are tabulated in the "MWP-Discovery2020-2028_DR_OEIS_004-0001A001.xlsx" file.</p> <p>4. The results of the fire simulation model, which are tabulated in the "MWP-Discovery2020-2028_DR_OEIS_004-0001A001.xlsx" file.</p>	Nathan Poon	4/18/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_01">https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_01</a>	1	No	5	Risk Methodology & Assessment	5.4
123	OEIS	004	OEIS_004	2	No	OEIS_04_02	<p>a. On page 32 of PG&amp;E's Wildlife Transmission Risk Model Documentation v4, PG&amp;E references the "L-T Line Asset Data Quality Improvement - Critical Components, Guide to Conservative Assumptions," dated January 14, 2020. Provide a copy of this document.</p>	<p>Please see "MWP-Discovery2020-2028_DR_OEIS_004-0002A001.pdf" for the requested info.</p>	Nathan Poon	4/18/2025	4/23/2025	4/23/2025	<a href="https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_02">https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_02</a>	1	No	5	Risk Methodology & Assessment	5.4
124	OEIS	004	OEIS_004	3	No	OEIS_04_03	<p>Regarding the Wildlife Consequence Model</p> <p>a. On page 18-22 of PG&amp;E's Wildlife Consequence Model V4 document, PG&amp;E provides an example of the suppression model applied to the Data Fire.</p> <p>b. Provide an equivalent version of the example to show the calculation of the number of structures in Table 11 (p. 20). This includes providing the data on Existing Structures, the fuel moisture (LPM), and wind speed (WSP) as noted on page 20, which are not reported in the example.</p> <p>c. How did PG&amp;E select the 300 m height for wind speed (p. 20)? What impact does that have on the statistical performance of the model?</p> <p>d. On page 14 of the Wildlife Consequence Model V4 document, Table 6 lists the dry wind conditions criteria. Are these sampled at a weather station height, at 300 m above surface (the consequence model used), or some other reference height?</p> <p>e. On page 28 of PG&amp;E's Wildlife Consequence Model V4 document, PG&amp;E presents the equation for calculating the fractional facilities based on AFN and WSP facilities.</p> <p>f. What are the units of the AFN value?</p> <p>g. How does this correspond to the AFN values shown in Figure 13 and Table 13 (p. 28)?</p> <p>h. On page 36 of the Wildlife Consequence Model V4 document, Table 20 provides example consequence bearing data. Provide this table as an Excel spreadsheet with one row for historical fire used in consequence bearing. Provide the following columns in addition to the columns shown in Table 20:</p> <p>(1) Dry fuel moisture</p> <p>(2) Fuel moisture level</p> <p>(3) Wind speed in mph at 300 m</p> <p>(4) Line fuel moisture</p> <p>(5) Line average wind speed for Dry Wind Conditions (if this is different from wind speed in mph at 300 m)</p> <p>(6) 10-m dry fuel moisture</p> <p>(7) Relative humidity</p> <p>(8) PFN-R</p> <p>(9) PFN</p> <p>(10) Rate of Spread</p> <p>(11) Whether the fire is within the PFN-R</p> <p>(12) Whether the fire was used for training or validation</p> <p>i. In PG&amp;E's response to Energy Safety's Data Request 1 Question 25, PG&amp;E states that "the overall WF Score was calculated as follows: WF Score = (PFN-R * 0.5) + (PFN * 0.5)."</p> <p>j. In response to Energy Safety's Data Request 2, Question 17, PG&amp;E provided an updated version of Table 6-4 including the associated mileage for various faulting planned and percentage that has already been faulted.</p> <p>k. Compared to the targets provided in Table 8-1 (PG&amp;E's 2020-2028 Base WMP, p. 173) and estimates in PG&amp;E's response to Energy Safety's Data Request 1 Question 17 (Table 6-4 in the table), to the summation of the mileages provided in Attachment 1 (labeled "DR" in the table), Energy Safety found the following:</p> <p>2020</p> <p>2027</p> <p>2028</p> <p>No-faulting Type</p> <p>MWP</p> <p>DR</p> <p>A</p> <p>MWP</p> <p>DR</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p> <p>H</p> <p>I</p> <p>J</p> <p>K</p> <p>L</p> <p>M</p> <p>N</p> <p>O</p> <p>P</p> <p>Q</p> <p>R</p> <p>S</p> <p>T</p> <p>U</p> <p>V</p> <p>W</p> <p>X</p> <p>Y</p> <p>Z</p> <p>Covered Conductor</p>	<p>a. The calculations in the 4.1.3.2 and 4.1.3.3 sections of documentation were intended as an illustrative example not drawn from the modeling performed for the fire values. A worksheet named "Data example" in "MWP-Discovery2020-2028_DR_OEIS_004-0003A001.xlsx" reproduces the calculations for the equivalent of Table 11, starting with model coefficients and constant values for the Data Fire, but based on coefficients aligned with the values of the model. The model only requires the known count of structures burned under actual conditions, not existing structures. Because other values are computed as a ratio relative to the actual values.</p> <p>b. Modeling wind in the model, the one used to create the historical "gridded weather" data available at PG&amp;E, requires accounting for all flows in 3 dimensions. Wind is particularly impacted by the boundary layer of ground level and various obstructions like topographical features, buildings, trees, etc. PG&amp;E's weather model (which is a standard model in the meteorological community) wind is modeled at various heights above the ground, with values at 10m different from wind speed and topographic obstructions and values at 300m typically capturing more "true flow" conditions. In other words, there is much more spatial variability in the data closer to the surface due to surface characteristics. The higher altitude areas are more generally capturing the effects of wind gaps at the ground level. When considering the conditions that would correlate with the respective outcomes of a hypothetical wildfire, we would use data points at 300m to avoid overly local situations at the point of origin that may not be representative of the prevailing conditions in the surrounding area. We did not perform a formal sensitivity analysis on other potential covariates in the same MWP-Discovery 2020-2028_DR_OEIS_004-0003 Page 3.</p> <p>The Dry Wind criteria are based on 10m wind speed. Dry Wind is predictive of outcomes due to its role in drying fuels (as well as impacting fire) and humidity is modeled at 2m above the ground, so the 10m wind speed is closer to the fuel.</p> <p>In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>1. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>2. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>3. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>4. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>5. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>6. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>7. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>8. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>9. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>10. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>11. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>12. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>13. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>14. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>15. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>16. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>17. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>18. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>19. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>20. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>21. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>22. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>23. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>24. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>25. In answering this question, we identified a calculation error in our response to Energy Safety's Data Request 1 Question 17 regarding the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>26. The response under "covered" the mileages provided in the updated Table 6-4 labeled "DR" in the table. A few notes about this table:</p> <p>27. 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125	OEIS	004	OEIS_004	4	No	OEIS_04_04			Nathan Poon	4/18/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_04">https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-oeis_004_04</a>	3	No	6	Wildfire Mitigation Strategy Development	6.2.1.3
126	MORA	004	MORA_004	1	No	MORA_04_01	<p>PSPS event damage event reports obtained from post-event parties, including issue and estimated time of damage for all quarters of 2024. Cause was not included in the provided data.</p> <p>a. Also please extend the request to cover four quarters or 2023 as well.</p>	<p>Joseph Mitchell</p>	4/21/2025	4/23/2025	4/23/2025	<a href="https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-mora_004_01">https://www.pge.com/customer-support/energy-safety/energy-safety-incident-response-and-support/2020-2028-dr-mora_004_01</a>	1	No	NA	GIS	NA	



127	MORA	004	MORA_004	2	No	MORA_004_02	<p>Unplanned outage data, including cause. Cause was not provided in the initial response.</p> <p>POAE considers the BaseCause field information to be confidential. Data submitted in quarterly reports to the Office of Energy Infrastructure and Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including the attorney-client privilege (e.g., Envt. Code § 954, Code Civ. Proc. § 2018.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, POAE exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113, Gov. Code § 82540), (a), 6 U.S.C. § 131, 6 C.F.R. § 29.2). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (spanning between 10-14 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, consolidating feature classes, changing field names, updating definitions, and reworking fields. Such reviews make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential.</p> <p>To create a non-confidential file for MORA, POAE attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS. However, confidential data could still have been provided inadvertently. POAE respectfully requests that MORA use this data for internal purposes only and restrict access to a need-to-know basis.</p> <p>WMP-Discovery 2026-2028_DR_MORA_001-0003 Page 2</p> <p>Additionally, the interconnected aspect of feature classes data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, POAE may designate additional data points confidential at a later point in time should more confidentiality considerations become known.</p>	Joseph Mitchell	4/21/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	NA	GIS	NA
128	MORA	004	MORA_004	3	No	MORA_004_03	<p>Wire down data for all four quarters of 2023 and 2024. This was missing cause and event time.</p> <p>POAE considers the BaseCause field information to be confidential. Data submitted in quarterly reports to the Office of Energy Infrastructure and Safety may be part of ongoing investigations and analyses and is protected under applicable legal privileges, including the attorney-client privilege (e.g., Envt. Code § 954, Code Civ. Proc. § 2018.010, et seq.). These reports capture a snapshot in time and are not subsequently updated to reflect findings from later investigations. Moreover, POAE exercises caution in disclosing information that could be exploited by malicious actors to replicate adverse events. Cause data may include sensitive details about physical infrastructure, cybersecurity systems, or critical energy assets, all of which are protected under federal and state laws (see 18 C.F.R. § 388.113, Gov. Code § 82540), (a), 6 U.S.C. § 131, 6 C.F.R. § 29.2). For example, if a specific piece of equipment was identified as causing a large-scale outage, that knowledge could potentially be used to target similar equipment elsewhere. Data is extracted from our quarterly GDS files, which contain a high volume of records in each submission (spanning between 10-14 million records). The feature classes and related tables included in the submission are not static and change each quarter. Similarly, the Office of Energy Infrastructure Safety (Energy Safety) often reviews their Data Guidelines introducing and removing various data points, consolidating feature classes, changing field names, updating definitions, and reworking fields. Such reviews make it difficult to create a consistent, non-confidential GDS version. Energy Safety does not have a non-confidential GDS submission. The submission they receive is confidential.</p> <p>To create a non-confidential file for MORA, POAE attempts to apply logic to the feature classes to strike known confidential fields, data types, or entire datasets across the entire GDS. However, confidential data could still have been provided inadvertently.</p> <p>WMP-Discovery 2026-2028_DR_MORA_001-0003 Page 2</p> <p>POAE respectfully requests that MORA use this data for internal purposes only and restrict access to a need-to-know basis.</p> <p>Additionally, the interconnected aspect of feature classes data and geospatial representation of the data creates complexities in identifying the confidentiality of individual records and introduces additional risk for error. As such, POAE may designate additional data points confidential at a later point in time should more confidentiality considerations become known.</p>	Joseph Mitchell	4/21/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	NA	GIS	NA
129	OES	005	OES_005	1	No	OES_005_01	<p>Regarding distribution detailed inspections and findings</p> <p>A. Provide the following data related to detailed distribution inspections:</p> <p>The number of detailed distribution inspections performed in the WMP-Discovery 2026-2028-DR_MORA_001-0003 Page 2</p> <p>Regarding Distribution Hazard Patrol</p> <p>Page 38 of POAE's 2026-2028 Base WMP states Distribution Hazard Patrol inspections are "conducted in high-risk areas based on a risk-prioritized approach." Figure POAE-6.2.2.1-1, reproduced below, shows the Consequence and Severity ratings by risk for HTD and WTRFA business in the scope of the Distribution Hazard Patrol.</p> <p>The sum of miles shaded as Routine/High/Medium/Low/Severe (red) and Routine/High (yellow) is 10,994 miles. The target for Distribution Hazard Patrol listed on Table 9-2 is 10,000 miles.</p> <p>If Distribution Hazard Patrol will cover all miles with Consequence or Wildlife Risk ratings of or above "Medium", explain the discrepancy between Figure POAE-6.2.2.1-1 and Table 9-2.</p> <p>If Distribution Hazard Patrol will not cover all miles with Consequence or Wildlife Risk ratings of or above "Medium".</p>	Nathan Poon	4/22/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	8.3.8.1
130	OES	005	OES_005	2	No	OES_005_02	<p>The sum of miles shaded as Routine/High/Medium/Low/Severe (red) and Routine/High (yellow) is 10,994 miles. The target for Distribution Hazard Patrol listed on Table 9-2 is 10,000 miles.</p> <p>If Distribution Hazard Patrol will cover all miles with Consequence or Wildlife Risk ratings of or above "Medium", explain the discrepancy between Figure POAE-6.2.2.1-1 and Table 9-2.</p> <p>If Distribution Hazard Patrol will not cover all miles with Consequence or Wildlife Risk ratings of or above "Medium".</p>	Nathan Poon	4/22/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	9	Vegetation Management and Inspections	9.2.2
131	OES	005	OES_005	3	No	OES_005_03	<p>Regarding Distribution Routine Patrol</p> <p>Page 39 of POAE's 2026-2028 Base WMP states "In 2025, POAE will use data gathered from proven remote sensing techniques to analyze how distribution inspections could be further evolved to incorporate remote sensing techniques." Further, page 38 states "POAE may consider adding remote sensing in lieu of ground-based inspections on electrical assets that typically have no trees around the lines, to provide customers with a more cost-effective solution."</p> <p>A. Does the target for Distribution Routine Patrol listed on Table 9-2 (10-16) include circuit miles that will be inspected using only remote sensing?</p> <p>1. If yes,</p> <p>A. Provide the number of circuit miles in each quarterly target that will be inspected using only remote sensing.</p> <p>B. Provide any procedures governing remote sensing inspections of vegetation along distribution lines.</p>	Nathan Poon	4/22/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	9	Vegetation Management and Inspections	9.2.1
132	OES	005	OES_005	4	No	OES_005_04	<p>Regarding Quality Control - Pole Clearing (WM-23P) Target</p> <p>On page 410 of the 2026-2028 Base WMP, POAE lists "Inspections" as the "Population/Sample Unit" for WM-23P, and WM-23P1. In the "Population Size" and "Sample Size" columns, POAE then indicates the unit is either "miles" or "spans." This makes it unclear whether the "Population/Sample Unit" is "inspections" or another unit.</p> <p>A. Clarify what the sample unit is for quality control and quality assurance activity by describing:</p> <p>1. The randomization software POAE uses to draw samples randomly.</p> <p>2. The unit that the randomization software draws from the population to create a sample (i.e., describe if POAE draws from a population of inspections, poles, spans, or another unit).</p>	Nathan Poon	4/22/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	9	Vegetation Management and Inspections	9.1.1
133	OES	005	OES_005	5	No	OES_005_05	<p>Regarding Quality Control - Pole Clearing (WM-23P) Target</p> <p>On page 7 of the 2026-2028 Base WMP Substantive Errors, POAE lists 99,933 poles as the population size for its annual Quality Control of Pole Clearing activity. On page 388 of its 2026-2028 Base WMP, POAE targets 70,000 poles annually for its Pole Clearing (WM-23P) activity.</p> <p>A. Explain why POAE's each population for quality control is 29,933 more poles than its targets for its pole clearing activity each year.</p>	Nathan Poon	4/22/2025	4/29/2025	4/29/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	9	Vegetation Management and Inspections	9.4
134	OES	005	OES_005	6	No	OES_005_06	<p>Regarding Wire Model Validation</p> <p>A. In POAE's response to data request OESIS-P-WMP_2025-POAE-002, Question 14, POAE states that "the team indicated early validation confirmed the results to evaluating against historical data" and that the validation "resulted in the removal of several lightning lines from the consequence training data set".</p> <p>B. Provide the date the validation was completed, including, at minimum the month(s) and year.</p> <p>C. On page 29 of E3's Review of POAE's Wildlife Risk Model Version 4, E3 includes a recommendation on "establishing an expanded model roadmap for model direction".</p> <p>1. Has POAE established this roadmap for its planned risk model changes?</p> <p>A. If yes, provide the roadmap.</p> <p>B. If no, provide the roadmap.</p>	Nathan Poon	4/22/2025	5/1/2025	5/1/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	5	Risk Methodology & Assessment	5.4
135	OES	005	OES_005	7	No	OES_005_07	<p>In response to data request OESIS-P-WMP_2025-POAE-002, Question 13 regarding Reliability and Public Safety risk models, POAE states that the results to evaluating against historical data, Public Safety Risk Model v2, Reliability Risk Model v1, Public Safety Consequence v2, and Reliability Consequence v1 -- "were generally used for public safety planning" and are "intended to help inform internal investment planning primarily outside of HTD".</p> <p>A. Provide details on the model's development and validation, as previously requested in data request OESIS-P-WMP_2025-POAE-002, Question 13. If such documentation does not exist, explain how the models are developed.</p> <p>B. Provide details on the model's development and validation, as previously requested in data request OESIS-P-WMP_2025-POAE-002, Question 13. If such documentation does not exist, explain how the models are developed.</p>	Nathan Poon	4/22/2025	5/6/2025	5/6/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	5	Risk Methodology & Assessment	5.4
136	OES	005	OES_005	8	No	OES_005_08	<p>Figure POAE-6.3.2-1 (a), POAE's 2026-2028 Base WMP shows scenarios involving climate-driven risk as part of its extreme event assessment. However, in POAE's response to data request OESIS-P-WMP_2025-POAE-001, Question 24, POAE discusses configuration risk as part of its extreme scenarios.</p> <p>A. Provide a description of what POAE's climate or infrastructure changes related to climate-driven risk as part of its extreme event assessment.</p>	Nathan Poon	4/22/2025	5/1/2025	5/1/2025	<a href="https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf">https://www.pge.com/content/dam/pge/docs/energy-safety-and-infrastructure/2026-2028-DR_MORA_001-0003.pdf</a>	0	No	5	Risk Methodology & Assessment	5.3.2







147	SPD	003	SPD_003	10	No	SPD_003_Q10	<p>In the 2024 QDR spatial data set, the polylines CH-01 and CH-04 are frequently overlaid on each other. Explain how to identify how many miles were underground, covered, conditioned or removed, as well as how to understand the as-built configuration of the system. Additionally, answer the following:</p> <p>1. SPD assumed the failure in the data set was either "surface" and "below" until distinguish between underground and covered conductor, as is finding that these numbers do not add up to the reported number of miles in a given WMP (WMP that has "surface" and "below" and only in they add up to the completed miles).</p> <p>2. SPD found the length of the polylines added to 291 miles for CH-01 (Status-Complete, Completion Date: PD), but the reported actual number of miles completed in the 2024 QDR is 348. Explain why the length of the polylines is not equal to the 348 miles.</p> <p>3. Some CH-01 data is in points instead of polylines – explain why polylines are not used since there is either a portion of it being removed, cover, conditioned or underground.</p>	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	0	No	GH-04	GH-04	GH-04
148	SPD	003	SPD_003	11	No	SPD_003_Q11	<p>Provide an update for full 2024 year data to "WMP-Discovery2023-2028_OR_IPD_019-012-Q12.pdf" and the supplemental response.</p>	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	0	No	9	Vegetation Management and Inspections	9
149	SPD	003	SPD_003	12	No	SPD_003_Q12	<p>Provide the data in Tables 1 through 3 for each of POEA's 2023-2025 WMP planned Vegetation Management Programs and POEA's 2026-2028 WMP Programs. There should be one spreadsheet for each of the Vegetation Management Programs listed in Tables 4 and 5.</p> <p>6. Discuss how POEA's evaluation of Focused Tree Inspection, Tree Removal Inventory, and Vegetation Management for Operational Mitigation for conduction site is distribution inspections may change the forecast in Table 3.</p> <p>7. For the 2023-2025 WMPs, SPD expects the individual programs to be reported on to include Table 4. List of Vegetation Management Programs 2023-2025.</p> <p>8. For the 2026-2028 WMPs, SPD expects the individual programs to be reported on to include Table 5. List of Vegetation Management Programs 2026-2028.</p>	Henry Sweet	4/29/2025	5/19/2025	5/19/2025	1	No	9	Vegetation Management and Inspections	9
150	SPD	003	SPD_003	13	No	SPD_003_Q13	<p>Complete the Tables 1 through 3 of the systemswide and HFTD scale for all of POEA's Vegetation Management programs, i.e., the total number of trees removed systemswide and separately the total number of trees removed in the HFTD.</p>	Henry Sweet	4/29/2025	5/19/2025	5/19/2025	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 2026-2028 WMP, specify if the Quality Assurance and Quality Control assessments include verification of the height and distance to the conductor of each strike vegetation point specified for removal, and each applicable strike point noted as an estimated tree.</p>	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	0	No	9	Vegetation Management and Inspections	9
152	SPD	003	SPD_003	15	No	SPD_003_Q15	<p>Provide POEA's latest estimate for the number of strike trees in POEA's HFTD with an explanation of how this estimate was obtained. Discuss POEA's confidence in the estimate.</p>	Henry Sweet	4/29/2025	4/29/2025	4/29/2025	0	No	9	Vegetation Management and Inspections	9
153	MORA	005	MORA_005	1	No	MORA_005_Q1	<p>Follow-up to Data Request Responses: WMP-Discovery 2026-2028, OR_OEIS_001-0022</p> <p>MORA-5.1 For the three technologies listed in POEA's responses to the OEIS data request (EFT, DFA, Disruptors), please provide a per year estimate of the deployment of these devices for 2026, 2027, and 2028 in the PFRA-HFTD.</p> <p>a. The number of devices to be deployed.</p> <p>b. The miles of overhead conductor to be monitored by these technologies in the HFTD or mile.</p> <p>c. The fractional coverage of the overhead conductor system.</p> <p>d. The estimated cumulative risk reduction due to the deployment of that technology.</p>	Joseph Mitchell	4/29/2025	5/19/2025	5/19/2025	0	No	10	Stratistical Awareness and Forecasting	10.410.31
154	MORA	005	MORA_005	2	No	MORA_005_Q2	<p>MORA-5.2 During a meeting of the Risk Mitigation Working Group, I recall one of the POEA team stating that they had looked at the Cat's Paw ignition database to determine whether weather local conditions affected the probability of successful initial attack.</p> <p>a. Did POEA ever perform an analysis similar to that described?</p> <p>b. If the answer is yes, please provide the results.</p> <p>c. Is the POEA's FPI model available through a public interface? (i.e., if a latitude, longitude, and time is provided can a corresponding FPI value be retrieved?)</p> <p>d. If the answer to (b) is no, what is the approximate volume of POEA's FPI history, could it potentially be exported, and how much time (days) and effort (person-hours) would it require?</p> <p>e. As POEA's FPI algorithm has changed over time, has POEA segregated historical periods with different FPI expression? Or has it evolved in history with the model being used?</p>	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	1	No	Appendix D	Appendix D Areas of Continued Improvement	ACI POEA-23B-03
155	MORA	005	MORA_005	3	No	MORA_005_Q3	<p>MORA-5.3 Tables POEA 2.1-4 COVERED CONDUCTOR AND UNDERGROUNDING IMPACTS ON THE LARL-MODEL OF DISRUPTION POEA's analysis of this-to-wire contact takes the effectiveness of Covered Conductor as measured in reducing risk issues, whereas other parties rate it as a high effectiveness.</p> <p>5. Please justify why wire-to-wire contact is only reduced to a medium outage event.</p> <p>6. Please provide examples in which wire to wire contact between covered conductors, could lead to a double and triple fault conditions.</p>	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	0	No	8	Grid Design, Operations, and Maintenance	8.2.1
156	MORA	005	MORA_005	4	No	MORA_005_Q4	<p>Advanced Technology MORA-5.4 Please direct us to or provide the technical details of Gridscape.</p> <p>6. Please provide the differences in action and function and purpose between Gridscape and EFTD.</p>	Joseph Mitchell	4/29/2025	4/30/2025	4/30/2025	0	No	10	Stratistical Awareness and Forecasting	10.3.1







[illegible]







[illegible]







198	SFD	004	SFD_004_Q36	34	No	SFD_004_Q36	On page 125 in the 2026-2028 Base WMP, PG&E explains that when selecting a mitigation it considers relevant local factors on a case-by-case basis. a. Provide a list of local factors that PG&E considers when selecting a mitigation. b. Describe how the list of local factors was established by PG&E. c. Were any other factors considered in the process but removed from the list? If so, explain why. d. Describe how each of these local factors can inform mitigation selection. e. Describe how each of these local factors was integrated into the decision trees found in Figures PG&E-8.2.1-1, PG&E-8.2.1-2, and PG&E-8.2.1-3 in the 2026-2028 Base WMP. f. Which of the steps in the decision trees involve local factors? How is the information used? g. How is the 2026-2028 Base WMP, PG&E states that it looks at its "highest risk circuit segments" to determine where to target the work included in the WMP. h. Within those "highest risk circuit segments", what specific does PG&E consider in order to determine the timing of implementing mitigations on these "highest risk circuit segments"? i. Does PG&E consider the LRF&E and GR&E values of the circuit segments when determining the timing of implementing mitigations on these "highest risk circuit segments"? If so, how? If not, why not?	Edie Schmitt	4/30/2025	5/21/2025			No	6	Wildfire Mitigation Strategy Development	6.1.3	
199	SFD	004	SFD_004_Q38	35	No	SFD_004_Q38	On page 152 in the 2026-2028 Base WMP, PG&E states that it looks at its "highest risk circuit segments" to determine where to target the work included in the WMP. h. Within those "highest risk circuit segments", what specific does PG&E consider in order to determine the timing of implementing mitigations on these "highest risk circuit segments"? i. Does PG&E consider the LRF&E and GR&E values of the circuit segments when determining the timing of implementing mitigations on these "highest risk circuit segments"? If so, how? If not, why not?	Edie Schmitt	4/30/2025	5/21/2025			No	5	Risk Methodology & Assessment	5.5.2	
200	SFD	004	SFD_004_Q38	36	No	SFD_004_Q38	Throughout the 2026-2028 Base WMP, PG&E uses the terms system hardening, grid hardening, and resilience mitigation activities to describe the same category of mitigations, namely understanding, prevent conductor and distribution line removal. Explain why PG&E uses three different terms for the category of mitigations. a. Are there differences between these terms? If so, explain.	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	0	No	8	Grid Design, Operations, and Maintenance	8
201	SFD	004	SFD_004_Q37	37	No	SFD_004_Q37	On page 155 in the 2026-2028 Base WMP, PG&E states "Over time, undergrounding also has lower operations and maintenance expenses." Provide documentation that corroborates this statement. a. What is the time scale of the analysis that led to this statement? Why was that time scale used? b. How would the results of the analysis be different if an alternative time scale was used? Consider the possible results of the analysis if the following time scales were used: i. Annual. ii. Decadal. iii. Multi-decadal (this must include the decommissioning and replacement costs).	Edie Schmitt	4/30/2025	5/9/2025	5/9/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	1	No	8	Grid Design, Operations, and Maintenance	8.2.2
202	SFD	004	SFD_004_Q38	38	No	SFD_004_Q38	On page 156 in the 2026-2028 Base WMP, PG&E states "For many of the mitigation programs, wildfire risk is the primary driver of prioritization." List the mitigation programs where wildfire risk is the primary driver of prioritization. a. For each mitigation program in the list, explain what is the primary driver of prioritization and why.	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	0	No	5	Risk Methodology & Assessment	5
203	SFD	004	SFD_004_Q39(a)	39(a)	Yes	SFD_004_Q39(a)	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost-Benefit Ratios. a. Provide the Cost-Benefit Ratios for each of these activities as is required by D.22-10-07. b. If these calculations of CBR vary from what was submitted in PG&E's 2026 RAMP Application, explain how much they vary and why. c. Complete Table 6-3 for all activities listed in the WMP. Add the Initiative Activity Tracking ID as a column in the completed Table. Present this completed version of Table 6-3 in an Excel spreadsheet.	Edie Schmitt	4/30/2025	5/21/2025			No	6	Wildfire Mitigation Strategy Development	6	
203	SFD	004	SFD_004_Q39	39	No	SFD_004_Q39	For Table 6-3 in the 2026-2028 Base WMP, PG&E provided an "Activity Effectiveness-Wildfire Risk" value for each activity listed. However, for six of these activities PG&E did not provide Cost-Benefit Ratios. a. Provide the Cost-Benefit Ratios for each of these activities as is required by D.22-10-07. b. If these calculations of CBR vary from what was submitted in PG&E's 2026 RAMP Application, explain how much they vary and why. c. Complete Table 6-3 for all activities listed in the WMP. Add the Initiative Activity Tracking ID as a column in the completed Table. Present this completed version of Table 6-3 in an Excel spreadsheet.	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	0	No	6	Wildfire Mitigation Strategy Development	6
204	SFD	004	SFD_004_Q40	40	No	SFD_004_Q40	On page 152 in the 2026-2028 Base WMP, PG&E provides an explanation for how it calculated Activity Effectiveness - Overall Utility Risk. The total value for Wildfire Risk (Dx, Tx, Sx) is \$15.434 Billion. Explain why this value is different from the \$15.578 Billion reported in Figure 6.1.3.2-1. a. Explain why the PPS&P and EP&S values here are presented as "Risk" but in Figure 6.1.3.2-1 these values are referred to as "Consequence". b. Explain why the PPS&P and EP&S values here are different, but the values for PPS&P and EP&S Risk on page 152 remain exactly the same as the values for PPS&P and EP&S Consequence in Figure 6.1.3.2-1.	Edie Schmitt	4/30/2025	5/13/2025	5/13/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	0	No	6	Wildfire Mitigation Strategy Development	6.1.3
205	SFD	004	SFD_004_Q41	41	No	SFD_004_Q41	On page 153 in the 2026-2028 Base WMP, PG&E describes the Activity Effectiveness - Wildfire Risk calculation and notes that a study was conducted with subject matter experts (SME) who were asked to "fill out a questionnaire about the effectiveness of these activities against roughly 2,000 wildfire models". a. How many SMEs participated in this study? b. Provide a list of the expertise for SMEs that participated in this study. c. How does the questionnaire compare with the mitigation effectiveness study submitted to SFD as a WMP-Discovery2026-2028_DR_SFD_001-Q037A0401? d. Provide a narrative explanation of the questionnaire and how SMEs were expected to fill it out. e. Describe what is meant by categorical level of effectiveness. f. If a scale was used by SMEs to respond to the questionnaire, provide a detailed explanation of that scale and how it was established. g. If a scale was used, was a variance and standard deviation calculated for the SME responses to each failure mode? If so, provide a table that displays the mean, variance and standard deviation for the SME's scaled responses to each of the failure modes. h. Provide a copy of the questionnaire about the effectiveness of these activities against the failure modes. i. Provide a copy of the results of the study PG&E notes on page 153 in the 2026-2028 Base WMP.	Edie Schmitt	4/30/2025	5/6/2025	5/6/2025	<a href="https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf">https://www.pge.com/content/dam/pgenergy/energy-services/public-affairs/docs/2026-2028-base-wmp/2026-2028-base-wmp.pdf</a>	0	No	6	Wildfire Mitigation Strategy Development	6.1.3







214	TURN	004	TURN_004	8(2)	Yes	TURN_004_08(2)	Regarding Table 8.2.1-5 on page 195: a. Please provide this table in Excel with supporting calculations. b. Please add the following information to the Excel table and include all data, calculations, and assumptions: 1. Annual and cumulative number of overhead miles in each year from 2023 (recorded) to 2026 (forecast) for each activity separately (covered conductor and underground). 2. Annual and cumulative costs in each year from 2023 to 2026 (including forecast years) for each activity separately (covered conductor and underground). Please provide supporting calculations. 3. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2026 (including forecast years). 4. Annual and cumulative costs from all other primary wildfire mitigations from 2023-2026 (including forecast years). 5. Annual and cumulative costs to implement EPSS and PPSIS in each year (separately) from 2023-2026 (including forecast years).	A Milella Full-Fry	5/1/2025	5/16/2025				No	8	Grid Design, Operations, and Maintenance	8.2.1
214	TURN	004	TURN_004	8	No	TURN_004_08	Regarding Table 8.2.1-5 on page 195: a. Please provide this table in Excel with supporting calculations. b. Please add the following information to the Excel table and include all data, calculations, and assumptions: 1. Annual and cumulative number of overhead miles in each year from 2023 (recorded) to 2026 (forecast) for each activity separately (covered conductor and underground). 2. Annual and cumulative costs in each year from 2023 to 2026 (including forecast years) for each activity separately (covered conductor and underground). Please provide supporting calculations. 3. Annual and cumulative risk reduction from all other primary wildfire mitigations from 2023-2026 (including forecast years). 4. Annual and cumulative costs from all other primary wildfire mitigations from 2023-2026 (including forecast years). 5. Annual and cumulative costs to implement EPSS and PPSIS in each year (separately) from 2023-2026 (including forecast years).	A Milella Full-Fry	5/1/2025	5/1/2025	5/1/2025						











