

Count	Fairy Name	Data Set	Data Request	Question No.	Question ID	Question Text	Link to Discovery Response: https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	Response	Requestor	Date Rec'd	First Due Date	Date Sent	Links	Number of Attachments	NCA Required	2023 WMP Section	Category	Subcategory
1	CaPA	Set WMP-07	CaPA_Set WMP-07	1	CaPA_Set WMP-07_01	In the review of PG&E's WORM v3 by Energy & Environmental Economics, Inc. ("E3 Review"), the authors note: "There were also several references to PG&E asset data, now current to 2022-01-01, and inclusion of updated internally sourced meteorology datasets." a) Please confirm that no asset data collected after January 1, 2022, is used in the WORM v3. b) If asset data collected after January 1, 2022, was used in PG&E's WORM v3, please specify the activity on which any such data was collected. c) Please confirm that "asset data" is not a) geospatial (GIS) data from the operational system of record, or b) otherwise used in the model of the system.	a) All distribution asset data utilized in the Wildlife Distribution Risk Model (WDRM) v3 was extracted from PG&E's EDGS on January 1, 2022, with the exception of the transformer data which was extracted from EDGS on February 2, 2022. b) No asset data was collected after January 1, 2022, was used in PG&E's WORM v3. c) See answer to part a.	Joshua Borwick	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework	
2	CaPA	Set WMP-07	CaPA_Set WMP-07	2	CaPA_Set WMP-07_02	Pages 15 of the E3 Review includes a list of components included in the WORM v3. 4) Please confirm the date that the WORM v3 was finalized. 5) If the final list of components is different than what is listed in the E3 Review, please provide an updated and accurate list of components that are used in PG&E's WORM v3. 6) For any items included in your response to Question 2(a) that do not appear on Page 15 of the E3 Review, please provide the latest date on which each item was updated. If any items were not updated in the WORM v3, please indicate how they differ from those given in question 1(b), please explain why they are different.	a) The Wildlife Distribution Risk Model (WDRM) v3 was finalized by approval of the Wildlife Risk Governance Steering Committee (WRGSC) on April 13, 2022. b) The final list of components included in the WORM v3 as reviewed in the E3 Review are included in the WORM v3 but are grouped into the multiple load in Figure 5 Sub-model Predictive Performance Measures on page 21 of the E3 Review document. An updated list of components is provided in the response to Question 2(a). c) Not applicable, please see response to 2c.	Joshua Borwick	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework	
3	CaPA	Set WMP-07	CaPA_Set WMP-07	3	CaPA_Set WMP-07_03	Please confirm the date that the WORM v4 was finalized. If it has not been finalized, please provide an approximate date when it will be finalized. 4) Please provide a brief list of components that are used as inputs in the WORM v4. 5) Please provide the date that PG&E asset data used in the WORM v4. 6) If any items included in your response to Question 2(a) that do not appear on Page 15 of the E3 Review, please provide the latest date on which each item was updated. If any items were not updated in the WORM v4, please indicate how they differ from those given in question 1(b), please explain why they are different.	a) The Wildlife Distribution Risk Model (WDRM) v4 has not been finalized. Model review and approval is scheduled for Q2 or Q3 of 2023. b) The final list of components included in the WORM v4 as reviewed in the E3 Review are included in the WORM v4 but are grouped into the multiple load in Figure 5 Sub-model Predictive Performance Measures on page 21 of the E3 Review document. An updated list of components is provided in the response to Question 2(a). c) Not applicable, please see response to 2c.	Joshua Borwick	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework	
4	MGRA	Data Request No. 1	MGRA_Data Request No. 1	1	MGRA_Data Request No. 1_Q1	Please provide for Asset Point data for Camera, Fuel, Support Structure, and Weather Station.	In response to this request, PG&E is providing Camera and Weather Station data, as delivered in the Q4 2022 O&M Data Standard Submission. PG&E is also providing non-confidential data from the Support Structure feature class. PG&E is not providing data for the Fuel feature class as this data is confidential CEI.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	1	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
4	MGRA	Data Request No. 1	MGRA_Data Request No. 1	1(b)	MGRA_Data Request No. 1_Q1(b)	Please provide for Asset Point data for Camera, Fuel, Support Structure, and Weather Station.	In response to this request, PG&E is providing Camera and Weather Station data, as delivered in the Q4 2022 O&M Data Standard Submission. PG&E is also providing non-confidential data from the Support Structure feature class. PG&E is not providing data for the Fuel feature class as this data is confidential CEI.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	4	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
5	MGRA	Data Request No. 1	MGRA_Data Request No. 1	2	MGRA_Data Request No. 1_Q2	Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	In response to this request, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line Feature Classes. PG&E is not providing the Transmission Line feature class because it is confidential CEI.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
5	MGRA	Data Request No. 1	MGRA_Data Request No. 1	2(b)	MGRA_Data Request No. 1_Q2(b)	Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.	In response to this request, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line Feature Classes. PG&E is not providing the Transmission Line feature class because it is confidential CEI.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
6	MGRA	Data Request No. 1	MGRA_Data Request No. 1	3	MGRA_Data Request No. 1_Q3	Provide P&S Event data, including Event Log, Event Line, Event Polygon, and P&S Event Damage data. Please exclude customer meter data. Provide P&S Event Asset Damage data including photos.	In response to this request, PG&E is unable to provide P&S Event data, P&S Event Damage data, and P&S Event Damage photos since there were no P&S Events that took place throughout 2022.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
6	MGRA	Data Request No. 1	MGRA_Data Request No. 1	3(b)	MGRA_Data Request No. 1_Q3(b)	Provide P&S Event data, including Event Log, Event Line, Event Polygon, and P&S Event Damage data. Please exclude customer meter data. Provide P&S Event Asset Damage data including photos.	In response to this request, PG&E is unable to provide P&S Event data, P&S Event Damage data, and P&S Event Damage photos since there were no P&S Events that took place throughout 2022.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
7	MGRA	Data Request No. 1	MGRA_Data Request No. 1	4	MGRA_Data Request No. 1_Q4	Provide Risk Event Point data, including Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Causal Upstream Outage, and Risk Event Asset Log.	In response to this request, PG&E is providing non-confidential data for the Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Causal Upstream Outage, and Risk Event Asset Log.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
7	MGRA	Data Request No. 1	MGRA_Data Request No. 1	4(b)	MGRA_Data Request No. 1_Q4(b)	Provide Risk Event Point data, including Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Causal Upstream Outage, and Risk Event Asset Log.	In response to this request, PG&E is providing non-confidential data for the Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Causal Upstream Outage, and Risk Event Asset Log.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
8	MGRA	Data Request No. 1	MGRA_Data Request No. 1	5	MGRA_Data Request No. 1_Q5	Provide photo data for Risk Events.	PG&E does not have any non-confidential or non-proprietary data to provide in response to this request. The photos included in the feature class may be subject to attorney-client privilege or the work product doctrine and may be subject to an ongoing litigation. Additionally, PG&E risk event photos are confidential CEI because they reveal physical facility and critical infrastructure locations. As such, they have been removed from the response.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
8	MGRA	Data Request No. 1	MGRA_Data Request No. 1	5(b)	MGRA_Data Request No. 1_Q5(b)	Provide photo data for Risk Events.	PG&E does not have any non-confidential or non-proprietary data to provide in response to this request. The photos included in the feature class may be subject to attorney-client privilege or the work product doctrine and may be subject to an ongoing litigation. Additionally, PG&E risk event photos are confidential CEI because they reveal physical facility and critical infrastructure locations. As such, they have been removed from the response.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
9	MGRA	Data Request No. 1	MGRA_Data Request No. 1	6	MGRA_Data Request No. 1_Q6	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested at this time.	In response to this request, PG&E is providing non-confidential data for the System Hardening, Sub-Corridor Hardening, and Grid Hardening WMP initiative programs that were included in the Grid Hardening Log, Grid Hardening Point, and Grid Hardening Line feature classes and related table. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, such as transformer, switch replacement, and SCADA enabled work has been performed, and where future work is planned to take place. These are confidential CEI because they reveal physical facility and critical infrastructure locations. As such, they have been removed from the response.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
9	MGRA	Data Request No. 1	MGRA_Data Request No. 1	6(b)	MGRA_Data Request No. 1_Q6(b)	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested at this time.	In response to this request, PG&E is providing non-confidential data for the System Hardening, Sub-Corridor Hardening, and Grid Hardening WMP initiative programs that were included in the Grid Hardening Log, Grid Hardening Point, and Grid Hardening Line feature classes and related table. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, such as transformer, switch replacement, and SCADA enabled work has been performed, and where future work is planned to take place. These are confidential CEI because they reveal physical facility and critical infrastructure locations. As such, they have been removed from the response.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
10	MGRA	Data Request No. 1	MGRA_Data Request No. 1	7	MGRA_Data Request No. 1_Q7	Under Initiatives, please provide Other Initiative data for point, line, polygon features and the Other Initiative Log.	In response to this request, PG&E is providing WMP initiative program data for the Weather Station Installation and Optimization and Camera Installation that were included in the Other Initiative Log and Other Initiative Point related table and feature class. Additional WMP initiative programs reported in these feature classes includes data on where PG&E has implemented, such as transformer, switch replacement, and SCADA enabled work has been performed, and where future work is planned to take place. These items are confidential CEI because they reveal physical facility and critical infrastructure locations.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
10	MGRA	Data Request No. 1	MGRA_Data Request No. 1	7(b)	MGRA_Data Request No. 1_Q7(b)	Under Initiatives, please provide Other Initiative data for point, line, polygon features and the Other Initiative Log.	In response to this request, PG&E is providing WMP initiative program data for the Weather Station Installation and Optimization and Camera Installation that were included in the Other Initiative Log and Other Initiative Point related table and feature class. Additional WMP initiative programs reported in these feature classes includes data on where PG&E has implemented, such as transformer, switch replacement, and SCADA enabled work has been performed, and where future work is planned to take place. These items are confidential CEI because they reveal physical facility and critical infrastructure locations.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
11	MGRA	Data Request No. 1	MGRA_Data Request No. 1	8	MGRA_Data Request No. 1_Q8	Under Other Requested Data, please provide Red Flag Warning Day polygon data.	PG&E is providing the Red Flag Warning Day polygon data, as requested by MGRA.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
11	MGRA	Data Request No. 1	MGRA_Data Request No. 1	8(b)	MGRA_Data Request No. 1_Q8(b)	Under Other Requested Data, please provide Red Flag Warning Day polygon data.	PG&E is providing the Red Flag Warning Day polygon data, as requested by MGRA.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
12	MGRA	Data Request No. 1	MGRA_Data Request No. 1	9	MGRA_Data Request No. 1_Q9	Please provide a layer including calculated critical-risk level risk using the methodology presented in the WMP. a) If independent probability and consequence layers exist, please provide these independent layers. b) Please provide a layer including calculated critical-risk level risk using the methodology presented in the WMP. c) If independent probability and consequence layers exist, please provide these independent layers.	The method described in the 2023 WMP to aggregate model results is conducted to produce a critical risk level risk value but it is not used to produce a critical risk level value. However, the geospatial representation of critical risk levels that would be provided in response to this data request involves the identification of CEI, which we are required by law to maintain as confidential and cannot provide without the requesting party agreeing to protect the information through non-disclosure agreement.	Joseph Mitchell	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
12	MGRA	Data Request No. 1	MGRA_Data Request No. 1	9(b)	MGRA_Data Request No. 1_Q9(b)	Please provide a layer including calculated critical-risk level risk using the methodology presented in the WMP. a) If independent probability and consequence layers exist, please provide these independent layers. b) Please provide a layer including calculated critical-risk level risk using the methodology presented in the WMP. c) If independent probability and consequence layers exist, please provide these independent layers.	The method described in the 2023 WMP to aggregate model results is conducted to produce a critical risk level risk value but it is not used to produce a critical risk level value. However, the geospatial representation of critical risk levels that would be provided in response to this data request involves the identification of CEI, which we are required by law to maintain as confidential and cannot provide without the requesting party agreeing to protect the information through non-disclosure agreement.	Joseph Mitchell	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	1	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation	
13	CaPA	Set WMP-08	CaPA_Set WMP-08	1	CaPA_Set WMP-08_01	PG&E WMP Programs The E3 WMP concluded at the end of 2022. PG&E will continue to strengthen our other existing VM programs. PG&E is transitioning the maintenance of enhanced clearance areas that were achieved in E3 to Routine VM teams. The established routine maintenance responsibilities for electric distribution circuits where E3 scope clearances have been performed on HTD designated areas and passed to work verification. a) Please describe how PG&E intends to maintain existing enhanced clearances, as stated above. b) Does PG&E intend to achieve enhanced clearances in areas where they have not already been achieved through E3, or a PG&E only intending to maintain existing enhanced clearances? c) If PG&E will pursue the achievement of enhanced clearances in new locations, please provide PG&E's strategy and methodology for the following: i) Identifying which areas and locations of enhanced clearances are needed. ii) Identifying which areas and locations of enhanced clearances are needed. iii) Identifying the desired clearance objectives. iv) Identifying the schedule and sequence of enhanced clearance projects. v) Setting the schedule and sequence of enhanced clearance projects. vi) If PG&E only intends to maintain existing enhanced clearances, please explain why.	a) PG&E is implementing the minimum clearance recommendations of 12 feet in HTD (see C.D. 95 Rule 35, Appendix E) 12 feet within PFA's. 2) There is an anticipated increase of tree removal as time goes on due to the pace of action recommended as time of being in the Distribution Vegetation Inspection Program (DVIP). Funding has been provided to account for increased removal. 3) There are higher controls through reports and monitoring of work completion between. b) PG&E will maintain clearances where E3 work occurred. PG&E will also be prescribing a minimum radial clearance of 12 feet through the system from TD and PFA. For the programs, Vegetation Management for Operational Migration (VMO) and Focused Tree Inspection, line trees to result in individual trees that warrant enhanced clearance where E3 was not implemented. These programs often clearances based on analysis, usage data and the tree, as well as site and specific conditions. While we cannot cut out a uniform scope, clearances in portions of areas targeted most strongly may have variable E3M. c) 1) Applying the recommendations of 12 feet minimum clearance on HTD(PFA), at time of tree 2) Ditching which is based on specific AOC output analysis of species and failure types when available. 3) Based on analysis of usage data and trends by AOC, identify any new trees within MDR, will be within the MDR before next work completion cycle or a showing signs of investment failure before next work completion cycle. d) Monitoring of 12' minimum clearance is through DVIP to mitigate potential safety to facilities if new safety or portion of failure work to occur. e) PG&E will enhance clearance projects according to the Wildlife Distribution Risk Model (WDRM) and attempts to complete work in order of highest to lowest risk whenever possible. However, operational factors including but not limited to access issues due to snow or weather, environmental limited operating periods, and agency restrictions among others may lead to a lower ranked project being completed ahead of a higher ranked project. f) PG&E will maintain existing enhanced clearances as well as establishing new clearances starting at a minimum of 12 feet.	Irish Whelan	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/environ/environ-and-sustainability/community-environmental-safety-programmer	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs	

23	CAIPA	Set WMP-08	CaIPA_Set WMP-08	11	CaIPA_Set WMP-08_011	<p>Table 5-14. PG&E's VM Targets, states that PG&E will collect L&AR data on the Transmission System (17,000 covered miles).</p> <p>Table 5-2. Electrical Infrastructure, states that PG&E has a total of 181,211 circuit miles of overhead transmission lines.</p> <p>Does PG&E plan to not collect L&AR data on approximately 600 overhead circuit miles of transmission?</p> <p>If the answer to part (a) is no, please explain why.</p> <p>If the answer to part (b) is no, please explain why. Table 6-14 shows a L&AR target that is smaller than the size of the CAIPA's distribution system.</p>	<p>At No, PG&E will collect L&AR data on all overhead Transmission circuit miles.</p> <p>If the difference between the Transmission Inspections mapped on EGIS and our L&AR vendor's data is due to a data synchronization issue, we will investigate the issue and update our L&AR data accordingly.</p> <p>L&AR data is common to all L&AR locations between EGIS and L&AR survey data. When our L&AR vendor indicates that L&AR data is not available for a specific location, we will investigate the issue and update our L&AR data accordingly.</p> <p>If EGIS shows a location that is not in our L&AR data, we will investigate the issue and update our L&AR data accordingly.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.1.1	Vegetation Management and Inspections	Routine Transmission NERC and Non-NERC
24	CAIPA	Set WMP-08	CaIPA_Set WMP-08	12	CaIPA_Set WMP-08_012	<p>Table 6-14. PG&E's VM Targets, states that "Each of the programs (Routine Distribution, Routine Transmission and Public Clearing) must achieve a 90% pass rate. A program does not achieve a 90% pass rate on quality verification audits."</p> <p>Does PG&E plan to not collect L&AR data on approximately 600 overhead circuit miles of transmission?</p> <p>If the answer to part (a) is no, please explain why.</p> <p>If the answer to part (b) is no, please explain why. Table 6-14 shows a L&AR target that is smaller than the size of the CAIPA's distribution system.</p>	<p>Should specific cause of deficiency tree, catch back plans will be developed in partnership with VM execution to improve for specific cause of deficiency tree.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
25	CAIPA	Set WMP-08	CaIPA_Set WMP-08	13	CaIPA_Set WMP-08_013	<p>Table 6-14. PG&E's VM Targets, states that "Each of the programs (Routine Distribution, Routine Transmission and Public Clearing) must achieve a 90% pass rate. A program does not achieve a 90% pass rate on quality verification audits."</p> <p>Does PG&E plan to not collect L&AR data on approximately 600 overhead circuit miles of transmission?</p> <p>If the answer to part (a) is no, please explain why.</p> <p>If the answer to part (b) is no, please explain why. Table 6-14 shows a L&AR target that is smaller than the size of the CAIPA's distribution system.</p>	<p>Improved quality verification have been established for 2023, allowing for greater insight into overall VM work product through and risk identification/management. Clear definitions of acceptance criteria, sampling methodology, population eligibility, and pass rate calculations were established and communicated across the VM organization prior to beginning 2023 audits.</p> <p>Improved quality verification have been established for 2023, allowing for greater insight into overall VM work product through and risk identification/management. Clear definitions of acceptance criteria, sampling methodology, population eligibility, and pass rate calculations were established and communicated across the VM organization prior to beginning 2023 audits.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.1	Vegetation Management and Inspections	Quality Assurance and Quality Verification
26	CAIPA	Set WMP-08	CaIPA_Set WMP-08	14	CaIPA_Set WMP-08_014	<p>Regarding the "Distribution Second Patrol" described in section 2.2.2.2 of PG&E's WMP, PG&E states: "PG&E has implemented a plan to complete the identified deadlining tree work within 180 days in HFTD areas and within 365 days for non-HFTD areas."</p> <p>What specific steps, actions, or measures are included in the plan noted in the quote above - in other words, what specific steps is PG&E taking to ensure that deadlining tree work will be completed within the stated timeframe?</p> <p>How does PG&E determine that 180 days was an appropriate and prudent timeframe for completing deadlining tree work in HFTD areas?</p> <p>Does PG&E plan to complete identified deadlining tree work within 180 days in HFTD areas for its Distribution Routine Patrol/section 2.2.2.2.1?</p> <p>If the answer to part (a) is no, please explain why not.</p> <p>If PG&E is expected to complete deadlining tree work identified during its Distribution Routine Patrol/section 2.2.2.2.1?</p>	<p>To ensure that deadlining tree work is completed within 180 days in HFTD and 365 days in non-HFTD, PG&E VM has developed a process to report on Daily Operating Business and Weekly deadlining review at multiple functional levels including VM leadership and VM execution - the status of dead and dying trees and their timelines and timeliness status. The measure ensures visibility and accountability of the response relative to the program.</p> <p>In addition to managing to complete work between Routine and Second Patrol work cycles, the timeframe to complete deadlining tree work within HFTD areas was based on 2022 State 180 day target for corrects actions of conditions when Tier 3 to be completed within 6 months (180 days) of identification.</p> <p>VM has a plan to complete deadlining tree work identified during its Distribution Routine Patrol/section 2.2.2.2.1.</p> <p>VM has a plan to complete deadlining tree work identified during its Distribution Routine Patrol/section 2.2.2.2.1.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.2	Vegetation Management and Inspections	Distribution Second Patrol
27	CAIPA	Set WMP-08	CaIPA_Set WMP-08	15	CaIPA_Set WMP-08_015	<p>Regarding the "Defensible Space Inspection" described in section 2.2.2.1 of PG&E's WMP, PG&E states: "Landowner related issues continue to prevent PG&E from achieving 100 percent defensible space completion (tasks at locations where additional defensible space zones existed not primarily owned property)."</p> <p>What actions does PG&E plan to take during the 2023-2025 WMP period to address the landowner related issues in order to achieve the highest possible defensible space completion rate?</p>	<p>If landowner related issues continue to prevent PG&E from achieving 100 percent defensible space completion (tasks at locations where additional defensible space zones existed not primarily owned property), we will continue to work with landowners to address their concerns and provide them with the resources they need to complete their defensible space.</p> <p>We will continue to work with landowners to address their concerns and provide them with the resources they need to complete their defensible space.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.1	Vegetation Management and Inspections	Defensible Space Inspection
28	CAIPA	Set WMP-08	CaIPA_Set WMP-08	16	CaIPA_Set WMP-08_016	<p>Regarding "Wood and Slash Management" described in section 2.3.2 of PG&E's WMP, PG&E states: "Chips are not on or removed off site based on owner preferences." PG&E further states that "Wood Management is a voluntary program in which property owners must opt in to participate."</p> <p>If PG&E is unable to contact a landowner to discuss wood chip removal, what steps does PG&E take to ensure that the landowner is aware of the option Wood Management program?</p> <p>How does PG&E ensure that landowners are aware of the option Wood Management program?</p> <p>Once a landowner opts into the Wood Management program, how does PG&E ensure the program becomes effective? (E.g., could a landowner opt into the Wood Management program?)</p> <p>How does PG&E inform VM contractors of the landowner's Wood Management preference?</p> <p>Does the Wood Management option remain valid indefinitely or must landowners re-verify their preference on a regular basis?</p> <p>If a landowner has complaints regarding wood and slash management by PG&E VM employees or contractors, what is the process for receiving, recording, and responding to such complaints?</p>	<p>If PG&E is unable to contact a landowner regarding their preference for wood chips, crews will remove the wood chips when safe to do so. If access does not allow for chipping and wood chip removal, crews will roll and scatter debris on site in accordance with applicable regulations.</p> <p>We have multiple real-time opportunities for landowners to request wood management. PG&E field personnel attempt to engage with landowners in-person about tree work and wood management preferences at the time of inspections, tree work and post-tree work verification. Field personnel may also leave door hangers or other informational material if landowners are unavailable. Following active emergency response efforts, where landowners may not be present, we utilize registered post-event outreach. This may include letters, door hangers, interactive video messages and/or press releases. Landowner contact information is available at pge.com.</p> <p>Our dedicated customer team is equipped to receive, record, and process all landowner requests for wildfire and EM management through our internal customer relationship management database. This includes options that come from field personnel.</p> <p>If a landowner wood management preferences are effective immediately, we work as quickly and efficiently as possible to complete the work. If a landowner's preference is not effective immediately, we will continue to work with the landowner to find an optimal solution. The timeline for this process is dependent on the landowner's preference and the availability of resources. We will continue to work with the landowner to find an optimal solution.</p> <p>Once a landowner opts into the Wood Management program, we will notify the landowner and the Wood Management team can work directly with landowners to record their wood management preferences through our internal customer relationship management database to ensure they are ready for field work.</p> <p>Landowner wood management preferences are indicated to operators personnel through our work management system.</p> <p>Wood management preferences apply to an instance of tree work activity on a property. If a new tree is processed, the wood management preferences for the landowner or their preference apply to a new tree species, size or specific location. We are always looking for opportunities to continuously improve our Wood Management program, including new methods for recording landowner preferences.</p> <p>Wood management evaluations are primarily received, recorded and responded to by our dedicated customer team and our field personnel.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.2	Vegetation Management and Inspections	Wood and Slash Management
29	CAIPA	Set WMP-08	CaIPA_Set WMP-08	17	CaIPA_Set WMP-08_017	<p>Regarding "High-Risk Species" described in section 2.3.2.2 of PG&E's WMP, PG&E states: "There are no growing standards for high-risk species."</p> <p>Does PG&E plan to develop growing standards for high-risk species?</p> <p>Does PG&E plan to develop growing standards for high-risk species?</p> <p>If the answer to part (a) is no, please explain why not.</p> <p>If the answer to part (b) is no, please explain why not.</p>	<p>For Routine and Second Patrol, PG&E does not currently have standards specific to high-risk species. These standards during these inspection cycles that require mitigation per PRC-203 and OGS 20.20 are expected to be identified and added to work regardless of species. A new program, Focused Tree Inspection (FTI) is being piloted starting in 2023 and will incorporate range analysis informed by tree habitat analysis within the Area of Concern (AOC) developed in 2022. These pilots are expected to analyze new areas of concern and update the AOC program as information is gained. This program will include range analysis and range analysis to update the AOC program as information is gained. This program will include range analysis and range analysis to update the AOC program as information is gained.</p> <p>There are no growing standards for high-risk species. There are no growing standards for high-risk species. There are no growing standards for high-risk species.</p> <p>There are no growing standards for high-risk species. There are no growing standards for high-risk species. There are no growing standards for high-risk species.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2.6	Vegetation Management and Inspections	High-Risk Species
30	CAIPA	Set WMP-08	CaIPA_Set WMP-08	18	CaIPA_Set WMP-08_018	<p>PG&E WMP states, in Table 5-13. VM Field QC Metrics Report, that pass rates are "not a WMP target" for 2023-2025.</p> <p>Does PG&E plan to not target pass rates for VM Field QC for 2023-2025?</p>	<p>The Quality Management team align on setting target pass rates at 88% for Field Quality Control Active Observation Program for the following core vegetation management programs: Routine Distribution, Second Patrol Distribution, Inspection Control, and Inspections.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	8.2.2	Vegetation Management and Inspections	Quality Control
31	CAIPA	Set WMP-08	CaIPA_Set WMP-08	19	CaIPA_Set WMP-08_019	<p>The data for the 296 P1/P2/Second Patrol trees can be found on "WMP Discovery/2023_DR_California/006-001/00007".</p> <p>For the 13 Priority 1/Priority 2 trees out of the set of 296, please refer to Tab 2 Data:</p> <p>Please see "Age" in Column "C" on Tab "P2 Data" for the age in days since the last inspection as of February 28, 2023.</p> <p>Please see "Priority" in Column "E" on Tab "P2 Data" for the priority level for the trees.</p> <p>Are responses to be an immediate to PG&E facilities, identified as a Priority 1 Condition, the condition will be mitigated within 24 hours of identification as long as conditions are safe for the tree to proceed with work. Mitigation is identified as pending for 2 work weeks for Priority 1 trees and is reviewed and mitigated as defined in the VM Priority Flag Procedure (FD 7120-91).</p> <p>Please see "Mitigation" in Column "G" on Tab "P2 Data" for the inspection date.</p> <p>Please see "HFTD/AR" in Column "H" on Tab "P2 Data" for the HFTD/AR.</p> <p>If we do not have a source for tracking planned work dates for individual trees and are unable to provide the data at this time.</p> <p>For the 293 trees out of the set of 296, please refer to Tab 2 Data:</p> <p>Please see "Age" in Column "C" on Tab "TM Data" for the age in days since the last inspection as of February 28, 2023.</p> <p>Please see "Priority" in Column "E" on Tab "TM Data" for the priority level.</p> <p>Are responses to be an immediate to PG&E facilities, identified as a Priority 1 Condition, the condition will be mitigated within 24 hours of identification as long as conditions are safe for the tree to proceed with work. Mitigation is identified as pending for 2 work weeks for Priority 1 trees and is reviewed and mitigated as defined in the VM Priority Flag Procedure (FD 7120-91).</p> <p>Please see "Mitigation" in Column "G" on Tab "TM Data" for the inspection date.</p> <p>Please see "HFTD/AR" in Column "H" on Tab "TM Data" for the HFTD/AR.</p> <p>If we do not have a source for tracking planned work dates for individual trees and are unable to provide the data at this time.</p>	<p>For the 293 trees out of the set of 296, please refer to Tab 2 Data:</p> <p>Please see "Age" in Column "C" on Tab "TM Data" for the age in days since the last inspection as of February 28, 2023.</p> <p>Please see "Priority" in Column "E" on Tab "TM Data" for the priority level.</p> <p>Are responses to be an immediate to PG&E facilities, identified as a Priority 1 Condition, the condition will be mitigated within 24 hours of identification as long as conditions are safe for the tree to proceed with work. Mitigation is identified as pending for 2 work weeks for Priority 1 trees and is reviewed and mitigated as defined in the VM Priority Flag Procedure (FD 7120-91).</p> <p>Please see "Mitigation" in Column "G" on Tab "TM Data" for the inspection date.</p> <p>Please see "HFTD/AR" in Column "H" on Tab "TM Data" for the HFTD/AR.</p> <p>If we do not have a source for tracking planned work dates for individual trees and are unable to provide the data at this time.</p>	Holly Walman	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	1	NA	8.2.6	Vegetation Management and Inspections	Open Work Orders
32	CAIPA	Set WMP-08	CaIPA_Set WMP-08	1	CaIPA_Set WMP-08_021	<p>P. 10 of PG&E's WMP states, "We have completed certain programs and removed some less impactful targets from the 2023 WMP."</p> <p>Please list the "less impactful" targets that were removed from the 2023 WMP.</p> <p>For each target in part (a), please explain how PG&E determined that the target was "less impactful."</p>	<p>The targets that were included in the 2022 WMP but not included in the 2023 WMP are identified below. Please note that we do not necessarily consider each of these to be "less impactful" or "less critical." Instead, they are more properly described as not being the best choice for our wildfire mitigation portfolio at this particular point in time.</p> <p>The Distribution Inspections and Open Work Order programs were removed from the 2023 WMP. These programs were removed from the 2023 WMP because our wildfire mitigation strategy is moving far maturity with more than 1,400 weather stations installed. We continue to evaluate the need for additional stations.</p> <p>The Distribution Inspections program was removed from the 2023 WMP because our wildfire mitigation strategy is moving far maturity with more than 1,400 weather stations installed. We continue to evaluate the need for additional stations.</p> <p>The Open Work Order program was removed from the 2023 WMP because our wildfire mitigation strategy is moving far maturity with more than 1,400 weather stations installed. We continue to evaluate the need for additional stations.</p> <p>The Distribution Inspections program was removed from the 2023 WMP because our wildfire mitigation strategy is moving far maturity with more than 1,400 weather stations installed. We continue to evaluate the need for additional stations.</p> <p>The Open Work Order program was removed from the 2023 WMP because our wildfire mitigation strategy is moving far maturity with more than 1,400 weather stations installed. We continue to evaluate the need for additional stations.</p>	Holly Walman	4/4/2023	4/7/2023	4/7/2023	https://www.pge.com/eng_global/communications/external-communications/press-releases/2023/04/05/pg-e-completes-l-and-ar-data-collection-for-transmission-system	0	NA	1	Executive Summary & Overview	NA

33	CaPA	Set WMP-09	CaPA_Set WMP-09_02	2	CaPA_Set WMP-09_02	<p>P-107 of PG&E's WMP states, "Increased temperatures can cause electric equipment to age more quickly which will increase the need for more frequent asset replacements. Higher temperatures may cause equipment to fail resulting in customer outages."</p> <p>Will these heat PG&E have taken the increased risk of asset failure anticipated from rising temperatures?</p> <p>Will these heat PG&E plan to take using the 2023-2025 WMP plan to mitigate the increased risk of asset failure anticipated from rising temperatures?</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-02.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-02.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-02.pdf</p>	0	NA	5.3.4.2	Overview of the Service Territory	Climate Change Phenomena and Trends
34	CaPA	Set WMP-09	CaPA_Set WMP-09_03	3	CaPA_Set WMP-09_03	<p>P-586 of PG&E's WMP states, "In 2022 we continued our assessment through the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras." Program. Through our assessment and our determined that AI detection on cameras will improve our detection system and in 2023 we will select a vendor to install AI detection on our cameras."</p> <p>Has PG&E provided evidence that AI detection would improve its detection system?</p> <p>Has PG&E provided the vendor to which PG&E anticipates AI detection will improve PG&E's detection system?</p> <p>Has PG&E provided any available studies, analysis or reports to support its statements in response to parts (a) or (b)?</p> <p>At the beginning of 2023, how much has PG&E spent on the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras," program?</p> <p>Has PG&E used PG&E's forecast concerning the Electric Program Investment Charge 3.45, "Automated Fire Detection from Wildlife Alert Cameras," program in each of the years 2023, 2024, and 2025?</p> <p>What is the earliest date PG&E expects to realize benefits from automated fire detection?</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-03.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-03.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-03.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-03.pdf</p>	1	NA	5.3.4.2	Stratified Awareness and Forecasting	Ignition Detection Systems
35	CaPA	Set WMP-09	CaPA_Set WMP-09_04	4	CaPA_Set WMP-09_04	<p>P-174 of PG&E's WMP states, "The results of the PPSIS Consequence Model are then calibrated to PG&E's Enterprise Risk Model's MAV Risk Score for PPSIS. For each component in PG&E's MAVF, we apply the results of the PPSIS Consequence Model to calibrate the MAVF."</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-04.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-04.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-04.pdf</p>	3	NA	6.2.3	Risk Methodology and Assessment	Risk and Risk Components Calculation
36	CaPA	Set WMP-09	CaPA_Set WMP-09_05	5	CaPA_Set WMP-09_05	<p>P-161 of PG&E's WMP discusses Group G, Above-Grade Hardware, in the context of PG&E's WTRM. Group G has two sub-groups: PG&E states, "Sub-Group 1 consists of components where the risk score closely aligns with that of the structure. These include the larger plate and bolt."</p> <p>Does the WTRM apply the same hazards and threats to all components within a grouping? Please explain your answer.</p> <p>Does PG&E's grouping within the WTRM account for any hazards that may be unique to a subset of hardware within a group? Please explain your answer.</p> <p>What are the unique hazards that may be unique to a subset of hardware within a group? Please explain your answer.</p> <p>Does PG&E account for the potential differences in risk levels between larger plates and bolt structures?</p> <p>Which group within the WTRM includes a check?</p> <p>Does PG&E explain your justification for your answer to part (a)?</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-05.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-05.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-05.pdf</p>	0	NA	6.2.2.1	Risk Methodology and Assessment	Risk and Risk Components Calculation
37	CaPA	Set WMP-09	CaPA_Set WMP-09_06	6	CaPA_Set WMP-09_06	<p>P-103 of PG&E's WMP states, "Top-risk areas are defined as the areas corresponding to those 100 x 100 ft areas that exceed PG&E's overhead electrical infrastructure locations and that are in the upper 20th percentile based on WDRM risk scores."</p> <p>By "upper 20th percentile," does PG&E mean the 20th through 100th percentiles, as percentiles are conventionally defined in other contexts, the highest quartile of risk scores?</p> <p>In the above statement, does "upper 20th percentile" refer to WDRM risk scores (which encompass most of PG&E's service territory), or a subset (for example, the upper 20th percentile of those WDRM risk scores located within HPD)? Please explain your answer.</p> <p>How many components are included in the "upper 20th percentile" as this term is used in PG&E's WMP?</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-06.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-06.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-06.pdf</p>	0	NA	6.4.1.2	Risk Methodology and Assessment	Top Risk Areas Within the HFRA
38	CaPA	Set WMP-09	CaPA_Set WMP-09_07	7	CaPA_Set WMP-09_07	<p>P-75 of PG&E's WMP states, "We created a species-specific stress index model for PG&E's tree health and mortality."</p> <p>What is PG&E's species-specific stress index model for tree health and mortality?</p> <p>How does PG&E utilize its species-specific stress index model for tree health and mortality?</p> <p>Does PG&E describe the data input to its model?</p> <p>Does PG&E describe the output of its model?</p>	<p>July/Hydro</p>	4/8/2023	4/7/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-07.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-07.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-07.pdf</p>	0	NA	4.4	Overview of WMP	Risk-Informed Framework
39	CaPA	Set WMP-09	CaPA_Set WMP-09_08	8	CaPA_Set WMP-09_08	<p>P-129 of PG&E's WMP states, "When conducting VM activities, PG&E employees and contractors must adhere to PG&E's Best Management Practices (BMP) where practicable. BMPs are considered practicable where physically possible and not conflict with other regulatory obligations or safety considerations (GO 35 Risk and Public Resources Codes 4292 and 4293) or emergency response situations."</p> <p>How do VM contractors determine when adherence to BMPs is not "physically possible."</p> <p>How does PG&E audit or verify VM contractors to ensure they are adhering to BMPs where practicable?</p> <p>What action does PG&E take if it determines that a VM contractor has not consistently adhered to BMPs where practicable?</p> <p>Does PG&E have any instances in 2022 where PG&E has determined that a VM contractor did not adhere to BMPs where practicable?</p> <p>Does PG&E have any instances in 2022 in which PG&E took action to reprimand or sanction a VM contractor for failing to adhere to BMPs where practicable?</p>	<p>July/Hydro</p>	4/8/2023	4/12/2023	<p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-08.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-08.pdf</p> <p>https://www.pge.com/globalassets/customer-communications/2023-wmp/2023-wmp-09-08.pdf</p>	1	NA	5.4.5	Overview of the Service Territory	Environmental Compliance and Permitting

61	CAIPA	Set WMP-10	CAIPA_Set WMP-10_014	14	CAIPA_Set WMP-10_014	Table PG&E-1.7.3 on p. 456 of PG&E's WMP has empty cells in the HFRA row and the HFRA row is not visible. b) Please provide an updated version of PG&E 1.7.3 with the HFRA row filled in.	The HFRA row in Table PG&E-1.7.3 was blank because PG&E was unable to reassign the HFRA tags. Table 1 below shows the number of open distribution work orders categorized by HFRT by region 01/2020 through 04/2022 and is tied to the GDR data provided to Energy Safety on March 1, 2022. The numbers in the March 1, 2022 GDR are different from the numbers provided in Table 1.7.3 in PG&E's March 27, 2022 WMP submission. The numbers in the March 1, 2022 GDR are correct. Table 1 - Open Distribution Work Orders by HFRT by Region	0	NA	8.1.7.2	Open Work Orders	Open Work Orders - Distribution Tags				
62	CAIPA	Set WMP-10	CAIPA_Set WMP-10_015	15	CAIPA_Set WMP-10_015	a) Please identify the five most common problems or flaws in drone inspections that the relevant QC process identified in 2022. b) Please identify the five most common problems or flaws in drone inspections that the relevant QC process identified in 2021.	a) There is a 100% review of all inspections that are part of the inspection process. The inspector completes the inspection and spot checks is identified in quarterly results. b) Spot checks are performed for the commonly missed items that potentially caused a fire or ignition. c) The most common problems identified in QC process are: C-Node, insulation, color pins, wire issues, and structural issues. d) The flaws rectified are by completion of the QC process at the site.	0	NA	8.1.3	Asset Inspections	NA				
63	TURN	001	TURN_001	1	TURN_001_01	1) How does PG&E's 2023-2025 WMP's current process of prioritizing wildfire mitigation assign a high priority to understanding and doing cost-dominant adequate work to risk most critical outputs or RSE activities? and which did not allow the WMP to allow the required progress. 2) Does PG&E's 2023-2025 WMP or supporting documentation provide a comparison of the RSEs either at a branch level or more aggregated level for understanding completion of the RSEs of alternative mitigation techniques, such as covered conductors? 3) If it does, please provide the relevant tables, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 4) If it does, please identify what PG&E believes those RSE comparisons demonstrate. 5) Referring to the third bullet under "Revised Program" on page 968 of PG&E's WMP, does PG&E's 2023-2025 WMP explain how PG&E incorporates RSE alternatives and how PG&E's underlying program as necessary based on alternative mitigation techniques, such as covered conductors, at project level early in the decision-making process, to allow PG&E to adjust the scope and pace of RSE's underlying program as necessary based on the results performed? 6) If it does, please provide the relevant citations, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 7) Whether or not this information is provided in PG&E's 2023-2025 WMP, please state whether, and if so, how PG&E will address the relevant citations, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 8) Please explain whether and if so, how PG&E's quantitative analysis takes into account the PSPS risk for a particular location when deciding whether to undertake an underlying project or an alternative mitigation technique in that location. For example, all other things being equal, when underpinning line work in the quantitative analysis for a location deemed to have no low PSPS risk compared to a location deemed to have high PSPS risk, what, if any, bias is the difference in PSPS risk reflected in the quantitative analysis? 9) Please provide all documents showing how PSPS risk is included in PG&E's decision-making process for whether underpinning or another mitigation technique is used for a particular location. 10) The first paragraph on page 969 states: "For instance, on average, 1 to 2.5 UC index miles is replaced 1.0H mile." 11) Please explain how this average was calculated, including an identification of the underlying projects (identified by date and location) on which this average was based. 12) Please provide all supporting data for this average to the relevant website.	a) PG&E's 2023-2025 WMP does not provide a comparison of the RSEs for understanding completion to the RSEs of alternative mitigations. However, this information, RSEs at the branch and aggregated level for wildfire mitigation underlying underpinning, is provided in PG&E's 2022 Revised Risk Cases - in response to Energy Division date request 8/31/2021. b) Yes. The 2023 WMP utilizes how PG&E performs this analysis. PG&E evaluated the outputs from its Wildfire Distribution Risk Models (WRM) to determine the highest risk miles in its service territory. The primary approach for identifying system hardening miles used low risk prioritization methodologies (1) the low 20 percent of circuit segments based on the 2021 WORM v2, and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WORM v2. c) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. d) In executing the system hardening program, PG&E first uses a scoring system that identifies the higher risk areas, and then selects the appropriate mitigation approach for that circuit which may include underpinning, covered conductors, or overhead hardening depending on the local circumstances. Since late 2021, PG&E has prioritized underpinning as the preferred approach to reduce the most system risk. Once it is selected for underpinning, PG&E evaluates each project segment quantitatively and qualitatively to mitigate the maximum amount of risk and evaluate feasibility and acceptability. e) PG&E does not have the documentation comparing different mitigation alternatives at the project level. PG&E uses the Simplified Wildfire RSE (SWRSE) or Wildfire Feasibility Efficiency (WFE) in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. PG&E uses the SWRSE to identify where it can most efficiently reduce risk given the human feasibility at a particular location. f) We currently do not use the PSPS risk in our quantitative decision-making when deciding whether to undertake an underlying project or an alternative mitigation. However, when evaluating potential underlying locations, PG&E ranked locations that would incur PSPS counter impacts and they adjust project scores to further address PSPS impacts. g) The report estimated conversion of overhead to underground mileage was based on subject matter expertise. We currently do not track at scale the overhead miles removed and replaced through underpinning. Based on a manual review of 18 projects completed in 2022, we removed approximately 12.7 overhead miles and replaced them with 13.3 underground miles. Based on the output of data, which is generally consistent with our overall portfolio, the conversion ratio from overhead to underground is 1.3. h) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information. i) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information.	Tom Long	4/10/2023	4/7/2023	4/7/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	AD PG&E-22-54 - Review Process of Prioritizing Wildfire Mitigation
64	TURN	002	TURN_002	1	TURN_002_01	Please see attachment "WMP-002-001-DR_TURM_002-Q02A01-CONF" for the requested information.	Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information.	Tom Long	4/10/2023	4/7/2023	4/7/2023	1	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
65	TURN	002	TURN_002	2	TURN_002_02	Please see attachment "WMP-002-001-DR_TURM_002-Q02A01-CONF" for the requested information.	Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information.	Tom Long	4/10/2023	4/7/2023	4/7/2023	1	Yes	8.2.3	Vegetation Management and Inspections	Vegetation and Fuels Management
66	TURN	002	TURN_002	3	TURN_002_03	Please provide the attachment to the response to CA/Advocates-PG&E-2023WMP-06-001, which PG&E has labeled as confidential.	The attachment to CA/Advocates-PG&E-2023WMP-06-001 was identical to the attachment provided for CA/Advocates-PG&E-2023WMP-06-001, so please refer to the attachment with Answer 02 of this data request response.	Tom Long	4/10/2023	4/7/2023	4/7/2023	0	NA	2022 WMP Section 7.3.5.2	Vegetation Management and Inspections	Enhanced Vegetation Management
67	TURN	002	TURN_002	4	TURN_002_04	Please provide the 2023-2025 Underpinning Workplan referenced on page 911 of PG&E's WMP and in footnote 200, which indicates that PG&E has labeled the Workplan confidential.	Please see "WMP-002-001-DR_TURM_002-Q02A01-CONF" file for the requested information.	Tom Long	4/10/2023	4/7/2023	4/7/2023	1	Yes	Appendix D	Appendix D - Areas for Continued Improvement	AD PG&E-22-16 - Progress and Updates on Underpinning and Risk Prioritization
68	CPUC - SPD (Safety Policy Division)	002	CPUC - SPD (Safety Policy Division)_002	1	CPUC - SPD (Safety Policy Division)_002_01	Provide Attachment 2023-03-27_PG&E_2023_WMP_Resp_A and ACP PG&E-20-16_A0101_CONF (PG&E's 2023-2025 Underpinning Workplan).	The CONFIDENTIAL attachment is being provided pursuant to the confidentiality declaration. "TRU17407_2023_Confidentially Declaration" is required. PG&E_2023_WMP_Resp_A and ACP PG&E-20-16_A0101_CONF" file for the requested information.	Kevin Milar	4/10/2023	4/5/2023	4/10/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	AD PG&E-22-16 - Progress and Updates on Underpinning and Risk Prioritization
69	OESIS	001	OESIS_001	1	OESIS_001_01	Regarding PG&E's Tree Assessment Tool (TAT) Considering PG&E has discontinued its Enhanced Vegetation Management (EVM) program. What inspection programs, if any, listed in Section 8.2.2 will use the TAT? If PG&E is not using the TAT, why has it discontinued its use?	a) The TAT was developed for the EVM program. The TAT will no longer be utilized as the EVM program concluded in the end of 2022. There are no current plans to utilize TAT to support other VM programs. b) No inspection programs are listed in Section 8.2.2 of the 2023 WMP that will use the TAT at this time. Please see the response to part 4 of this question. c) The approach to tree inspections is to follow the American National Standards Institute (ANSI) A300 tree risk assessment standard to set uniform conditions and reliable tree risk ratings. d) These recommendations were provided to PG&E in the report of the Wildfire Tree Species Study that was completed in 2022. PG&E has implemented these recommendations with the exception of those that are not applicable. Below are the actions taken specific to each of the tree recommendations. Recommendation 1: Update tree risk assessment process to include tree species level, with only specified groups allowed as aggregated. Adapt software provided in OESIS Geographic Information Systems Data Standard, OASPT Version 2.0 Section 3.3.3 (option "Native Class") Page 1. Action Taken: An updated tree species list has been created that aggregates species at the genus level where appropriate. The updated tree species list is currently in process of being adopted into the OESIS Recommendation 2: Update arborist inspection process to record accurate (at least) GPS positions and be assigned to an EVM project that enables to process and quality control PG&E's digital tree data. Similar to PG&E Transmission Work, when possible, associate the OESIS tree with a LIDAR tree segmentation ID to further improve tree location accuracy and tree tracking. Action Taken: Current electronic devices are able to capture accurate GPS positions due to technological improvements. Recommendation 3: Track TAT assessment species composition and compare to usage and ignition species distributions. This will allow for more accurate data analysis. The updated form is in process of being digitally signed and will improve data accuracy. Action Taken: Analysis for assessment species composition compared to usage and ignition species distributions has been completed. Recommendation 4: Harmonize OESIS and OESIS (OSM) data with TAT data parameters. Action Taken: Where possible, associate the OESIS tree with a LIDAR tree segmentation ID. Recommendation 5: Increase green tree assessment rates for trees with no obvious defects. Consider scored assessments for trees with no obvious defects. Full pathologies to assess, less position close to alignment, and canopy exposure to wind. Action Taken: The manual assignment of OESIS defects was incorporated into the TAT application. Recommendation 6: Use EPA Level III Ecograms to aggregate Regional Species. Action Taken: The TAT update utilizes the recommended ecograms. Recommendation 7: Update the TAT update utilizes the recommended ecograms. Action Taken: The TAT update utilizes the recommended ecograms.	Colin Lang	4/5/2023	4/10/2023	4/10/2023	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
70	OESIS	001	OESIS_001	2	OESIS_001_02	Regarding PG&E's Targeted Tree Species (TTS) Study and its Tree Assessment Tool (TAT) on page 784 of its 2023 WMP (under "PG&E Issues") the results of our targeted Tree Species study in conjunction with improving the Tree Assessment Tool (TAT) allow PG&E to more accurately identify and mitigate trees at elevated risk of wildfire. Please provide the following information: 1) How does PG&E's 2023-2025 WMP's current process of prioritizing wildfire mitigation assign a high priority to understanding and doing cost-dominant adequate work to risk most critical outputs or RSE activities? and which did not allow the WMP to allow the required progress. 2) Does PG&E's 2023-2025 WMP or supporting documentation provide a comparison of the RSEs either at a branch level or more aggregated level for understanding completion of the RSEs of alternative mitigation techniques, such as covered conductors? 3) If it does, please provide the relevant tables, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 4) If it does, please identify what PG&E believes those RSE comparisons demonstrate. 5) Referring to the third bullet under "Revised Program" on page 968 of PG&E's WMP, does PG&E's 2023-2025 WMP explain how PG&E incorporates RSE alternatives and how PG&E's underlying program as necessary based on alternative mitigation techniques, such as covered conductors, at project level early in the decision-making process, to allow PG&E to adjust the scope and pace of RSE's underlying program as necessary based on the results performed? 6) If it does, please provide the relevant citations, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 7) Whether or not this information is provided in PG&E's 2023-2025 WMP, please state whether, and if so, how PG&E will address the relevant citations, identifying the specific content that provides this information by page number and specific paragraphs, tables or figures (i.e., not just an overall page citation). 8) Please explain whether and if so, how PG&E's quantitative analysis takes into account the PSPS risk for a particular location when deciding whether to undertake an underlying project or an alternative mitigation technique in that location. For example, all other things being equal, when underpinning line work in the quantitative analysis for a location deemed to have no low PSPS risk compared to a location deemed to have high PSPS risk, what, if any, bias is the difference in PSPS risk reflected in the quantitative analysis? 9) Please provide all documents showing how PSPS risk is included in PG&E's decision-making process for whether underpinning or another mitigation technique is used for a particular location. 10) The first paragraph on page 969 states: "For instance, on average, 1 to 2.5 UC index miles is replaced 1.0H mile." 11) Please explain how this average was calculated, including an identification of the underlying projects (identified by date and location) on which this average was based. 12) Please provide all supporting data for this average to the relevant website.	a) PG&E's 2023-2025 WMP does not provide a comparison of the RSEs for understanding completion to the RSEs of alternative mitigations. However, this information, RSEs at the branch and aggregated level for wildfire mitigation underlying underpinning, is provided in PG&E's 2022 Revised Risk Cases - in response to Energy Division date request 8/31/2021. b) Yes. The 2023 WMP utilizes how PG&E performs this analysis. PG&E evaluated the outputs from its Wildfire Distribution Risk Models (WRM) to determine the highest risk miles in its service territory. The primary approach for identifying system hardening miles used low risk prioritization methodologies (1) the low 20 percent of circuit segments based on the 2021 WORM v2, and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WORM v2. c) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. d) In executing the system hardening program, PG&E first uses a scoring system that identifies the higher risk areas, and then selects the appropriate mitigation approach for that circuit which may include underpinning, covered conductors, or overhead hardening depending on the local circumstances. Since late 2021, PG&E has prioritized underpinning as the preferred approach to reduce the most system risk. Once it is selected for underpinning, PG&E evaluates each project segment quantitatively and qualitatively to mitigate the maximum amount of risk and evaluate feasibility and acceptability. e) PG&E does not have the documentation comparing different mitigation alternatives at the project level. PG&E uses the Simplified Wildfire RSE (SWRSE) or Wildfire Feasibility Efficiency (WFE) in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. PG&E uses the SWRSE to identify where it can most efficiently reduce risk given the human feasibility at a particular location. f) We currently do not use the PSPS risk in our quantitative decision-making when deciding whether to undertake an underlying project or an alternative mitigation. However, when evaluating potential underlying locations, PG&E ranked locations that would incur PSPS counter impacts and they adjust project scores to further address PSPS impacts. g) The report estimated conversion of overhead to underground mileage was based on subject matter expertise. We currently do not track at scale the overhead miles removed and replaced through underpinning. Based on a manual review of 18 projects completed in 2022, we removed approximately 12.7 overhead miles and replaced them with 13.3 underground miles. Based on the output of data, which is generally consistent with our overall portfolio, the conversion ratio from overhead to underground is 1.3. h) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information. i) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information.	Colin Lang	4/5/2023	4/10/2023	4/10/2023	0	NA	8.2.3.6	Vegetation Management and Inspections	High-Risk Species
71	OESIS	001	OESIS_001	3	OESIS_001_03	Regarding PG&E's Focused Tree Inspections pilot a) Describe the current state of development for the pilot and PG&E's Areas of Concern (AOC) and "hotspots" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize pilots? (page 529) and the expected timeline for implementation. b) Detail the criteria PG&E has and is using to develop the pilot and PG&E's Areas of Concern (AOC) and "hotspots" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize pilots? (page 529). c) What elements, processes, procedures, and tools are vegetation management central/useful to you to perform these assessments for the pilot? d) What elements, processes, procedures, and tools are vegetation management central/useful to you to perform these assessments for the pilot? e) What WMP file is being used by the WMP for reworking for the pilot? If not, what system will PG&E use for the pilot? f) Where is PG&E conducting its Focused Tree Inspections pilot? If PG&E has not yet begun its pilot, where will PG&E be conducting its Focused Tree Inspections? g) Has many circuit miles are in scope for the pilot? h) For each Circuit Protection Zone (CPZ) in the pilot area provide the: CPZ Name The Weighted Risk Score from PG&E's most recent version of its EVM Tree Weighted Prioritization List. i) The Weighted Risk Score from PG&E's most recent version of its EVM Tree Weighted Prioritization List. j) Provide a GIS layer of the pilot area PG&E's Areas of Concern (AOC) and "hotspots" where focused vegetation inspection can be evaluated to determine appropriate courses to prioritize pilots? (page 529). As available, provide the following attributes for each project: 1) Overall Utility Risk 2) Number of overhead circuit miles within the determine 3) Overall Utility Risk 4) Ignition Risk 5) PSPS Risk 6) Contact from Vegetation Landholders of Interest	a) PG&E's 2023-2025 WMP does not provide a comparison of the RSEs for understanding completion to the RSEs of alternative mitigations. However, this information, RSEs at the branch and aggregated level for wildfire mitigation underlying underpinning, is provided in PG&E's 2022 Revised Risk Cases - in response to Energy Division date request 8/31/2021. b) Yes. The 2023 WMP utilizes how PG&E performs this analysis. PG&E evaluated the outputs from its Wildfire Distribution Risk Models (WRM) to determine the highest risk miles in its service territory. The primary approach for identifying system hardening miles used low risk prioritization methodologies (1) the low 20 percent of circuit segments based on the 2021 WORM v2, and (2) the Wildfire Feasibility Efficiency (WFE) ranked circuit segments based on the 2022 WORM v2. c) PG&E uses the Simplified Wildfire RSE (SWRSE) or WFE in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. d) In executing the system hardening program, PG&E first uses a scoring system that identifies the higher risk areas, and then selects the appropriate mitigation approach for that circuit which may include underpinning, covered conductors, or overhead hardening depending on the local circumstances. Since late 2021, PG&E has prioritized underpinning as the preferred approach to reduce the most system risk. Once it is selected for underpinning, PG&E evaluates each project segment quantitatively and qualitatively to mitigate the maximum amount of risk and evaluate feasibility and acceptability. e) PG&E does not have the documentation comparing different mitigation alternatives at the project level. PG&E uses the Simplified Wildfire RSE (SWRSE) or Wildfire Feasibility Efficiency (WFE) in evaluating underlying projects. The SWRSE includes a comparison of the RSE including wildfire risk and cost. PG&E uses the SWRSE to identify where it can most efficiently reduce risk given the human feasibility at a particular location. f) We currently do not use the PSPS risk in our quantitative decision-making when deciding whether to undertake an underlying project or an alternative mitigation. However, when evaluating potential underlying locations, PG&E ranked locations that would incur PSPS counter impacts and they adjust project scores to further address PSPS impacts. g) The report estimated conversion of overhead to underground mileage was based on subject matter expertise. We currently do not track at scale the overhead miles removed and replaced through underpinning. Based on a manual review of 18 projects completed in 2022, we removed approximately 12.7 overhead miles and replaced them with 13.3 underground miles. Based on the output of data, which is generally consistent with our overall portfolio, the conversion ratio from overhead to underground is 1.3. h) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information. i) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information. j) Please see the attached WMP-002-001-DR_TURM_002-Q02A01-CONF file for the requested information.	Colin Lang	4/5/2023	4/10/2023	4/10/2023	3	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

179	OEIS	002	OEIS_002	2	OEIS_002_02	<p>a) What are the minimum qualifications for an inspector performing the tree-risk assessment for the Focused Tree Inspections?</p> <p>b) Why and how did PG&E choose to use the American National Standards Institute (ANSI) A.300 tree risk assessment standard over PG&E's Tree Assessment Tool (TAT) for Focused Tree Inspections? Include a comparison of the benefits and drawbacks of ANSI A.300 and PG&E's TAT.</p>	<p>The minimum qualifications for an inspector performing the tree-risk assessment for the Focused Tree Inspections is a Tree Risk Assessment Qualification (TRAQ) through the International Society of Arboriculture (ISA).</p> <p>We will utilize the International Society of Arboriculture (ISA) Basic Tree Risk Assessment Form for the Focused Tree Inspections. The Basic Tree Risk Assessment Form is provided with the ISA Tree Risk Assessment Manual, which is based on ANSI A.300. We utilized industry standards, regulatory guidance, and existing commitments in the decision to select ANSI A.300 as a benchmark framework as guidance for the FTI program.</p> <p>ANSI A.300 is an industry wide standard that was created independent of PG&E with decades of proven usage in the field and research supported.</p> <p>ANSI is a global leader in standards and guidance in California Power Line Fire Prevention Field Guide (2021 EDITION).</p> <p>Recommendation changes by the CPUC's General Orders on Page 11 of Enforce Forestry, Inc dated July 6, 2022.</p> <p>Electric utilities to better focus on the root cause of tree-related fires by requiring utilities to use the following standard and ANSI A.300 for Tree Risk Assessment. The following standards are required for the Fire, Operations, Tree, Shop, and Utility Tree Management-Standard Practices (Tree Risk Assessment - Tree Failure Liability).</p> <p>International Society of Arboriculture's Best Management Practices Utility Tree Risk Assessment Practices Edition 2020</p> <p>The ISA Tree Risk Assessment Qualification provides a relatively accessible and cost-effective way of measuring the benefits by being supported by a qualification program designed to train and assess candidates in a specialized field of arboriculture. The TRAQ also has regulatory requirements in place to ensure the quality of the TRAQ assessors. The TAT was built specifically for the EVM program at PG&E and was not consistent with industry standards. The TAT also did not have the same level of rigor as ANSI A.300 in terms of training and assessment and does not have the TRAQ.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
180	OEIS	002	OEIS_002	3	OEIS_002_03	<p>On page 621, PG&E addresses its Company Emergency Response Plan (CEMP). Provide an unredacted version of the CEMP and all annexes.</p>	<p>The confidential attachments were being provided pursuant to the following emergency declaration:</p> <p>"Please see attachment: "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for an unredacted version of our CEMP. Please see attachment: "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for our unredacted WMP Annex, respectively. Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for our unredacted WMP Annex, respectively.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	3	NA	8.4.1	Emergency Preparedness	Overview
181	OEIS	002	OEIS_002	4	OEIS_002_04	<p>a) On page 587, PG&E references the weather stations deployed over their 70,000 square mile territory for monitoring conditions.</p> <p>b) Provide the installation standard that all PG&E weather systems are installed on. Include height from ground, direction of cross-arm, and which side of the pole/tower they are installed on.</p> <p>c) On page 570, PG&E references the maintenance for their weather stations and calibration performed to "our standards".</p> <p>d) Provide the PG&E specific standards that are being referenced for the calibration as compared to the manufacturer standards.</p> <p>e) Provide the total number of stations that are serviced annually over the past 3 years, and the maintenance performed on each station.</p> <p>f) Provide the total number of stations not serviced annually over the past 3 years due to "remediation of location" and/or "weather conditions".</p> <p>g) Provide the estimated life span of each sensor and the replacement cycle for each.</p>	<p>a) Please see the attachment "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for the requested information.</p> <p>b) Please see the attachment "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for the requested information. We developed our calibration procedure in consultation with Western Weather Group, who provide guidance on calibration and maintenance cycles.</p> <p>c) Over the last 3 years, 471 out of 622 stations were calibrated in 2020, 481 out of 591 stations in 2021, and 1207 out of 1315 stations in 2022. The remainder of these stations were not able to be serviced due to External Factors such as weather related, environmental condition related, weather conditions, and safety issues. We are unable to provide the historical maintenance performed on each station based on historical data—we sampled 30% of our weather stations that was not included based on our data. This is corrected maintenance as opposed to preventative maintenance. During preventative maintenance (calibrations), technicians are instructed to inspect the weather station issues such as missing or damaged hardware and equipment. They are also instructed to document weather station information, perform tests on equipment, update software, and replace any equipment that is not working correctly.</p> <p>d) Over the last 3 years, 4 weather stations could not be calibrated in 2021 and 1 in 2022 due to the remediation of the location and weather conditions.</p> <p>e) Station is unable with estimated life span for weather station equipment. This was provided by our partner, Western Weather Group.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	2	NA	8.3.2.1	Structural Awareness and Forecasting	Existing Systems, Technologies, and Processes
182	OEIS	002	OEIS_002	5	OEIS_002_05	<p>Please provide an Excel version of Table 4-7: Summary of Risk Reduction for Top Risk Circuit Segments from PG&E's 2022 WMP.</p>	<p>In response to this request, we discovered that some of the information in Table 4.7 is incorrect. We have corrected it in response to this discovery request. We will reach out to discuss this update and making corrections to the WMP pursuant to the following information: "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf".</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	1	NA	7.2.2.3	Wildfire Mitigation Strategy Development	Projected Risk Reduction on High-Risk Circuit Over the 3-Year WMP Cycle
183	OEIS	002	OEIS_002	6	OEIS_002_06	<p>Under Section 1.2.B, PG&E only includes additional information for distribution protection devices. What proportion does PG&E currently have for system automation equipment at the transmission level?</p>	<p>An incident in Section 8.1.3.1 of the 2022-2023 WMP, on the transmission system, not including is detailed for the following reasons where the CPUC requested this data. In addition, in Section 8.1.3.1, we are unable to provide Transmission Asset Health.</p> <p>PG&E is unable to identify if there are low impact lines that do not meet our PSPS scoping criteria (e.g. Asset Health, Vegetation Risk, Wildlife Consequence) but can be deenergized without incremental impact to customers or other impacts to the grid. In addition, we have implemented EPSS on some transmission lines and are evaluating alternative EPSS solutions on other transmission lines at the alternative transmission level.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	0	NA	8.1.2.1	Grid Design and System Hardening	T Line removal (in HPTD) - Transmission
184	OEIS	002	OEIS_002	7	OEIS_002_07	<p>a) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>b) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>c) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>d) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>e) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>f) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>g) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>h) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>i) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>j) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>k) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>l) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>m) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>n) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>o) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>p) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>q) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>r) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>s) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>t) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>u) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>v) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>w) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>x) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>y) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p> <p>z) Provide a definition for PG&E's "Critical Pass Rate" for an asset inspection DC, as shown in Table PG&E-22-01-11.</p>	<p>a) "Critical Pass Rate" is the number of assets inspected by DC that met or exceeded a Critical Pass Rate as defined by Asset Strategy tables or miss divided by the number of assets inspected by DC. This is shown as a percentage. A Critical Pass Rate defined as a condition that could lead to either an ignition source or an event that could result in a potential fire ignition.</p> <p>b) "Critical Pass Rate" does not differ from "QA Review HPTD Pass Rate". Critical attributes are defined by Asset Strategy.</p> <p>c) "Critical Pass Rate" is not the inverse of "QC Review HPTD Failure Rate". These terms differ because "Critical Pass Rate" is based on Critical Attributes (QA Review HPTD Pass Rate) while "QC Review HPTD Failure Rate" is a measure of assets where the QC review checked, not just Critical Attributes. "QC Review HPTD Failure Rate" is the number of assets completed by QC that had at least one QC finding checked by the test team completed by DC and is displayed as a percentage.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-01 Asset Inspection Quality Assurance and Quality Control ACI PG&E-22-02 Asset Application of Specific Lessons Learned from Liability-Caused Fires
185	OEIS	002	OEIS_002	8	OEIS_002_08	<p>a) How many ignitions were evaluated on PG&E's EIA program in 2021, 2022, and 2023 (if applicable) respectively?</p> <p>b) When would PG&E perform an EIA?</p> <p>c) Provide an example of an ignition PG&E performed EIA on, including supporting documentation and report as applicable.</p> <p>d) Via Excel format, provide the following information for each ignition in which PG&E performed an EIA, following the same definitions as Table of the CEMP:</p> <p>i) CPZ</p> <p>ii) Date of ignition</p> <p>iii) Qualifier for performing EIA (HPTD fire, EPSS protected facility, etc.)</p> <p>iv) Asset type</p> <p>v) Ignition description</p> <p>vi) Summary/notes on the cause of ignition as identified via EIA</p>	<p>1) Ignition on an Enhanced Protective Safety Settings (EPSS) enabled circuit protection zone (CPZ)</p> <p>2) CPZ: Repetitive Transmission and Substation Ignitions</p> <p>3) The EIA Program may not perform some or all of the activities described in the above-mentioned Procedure if the ignition investigation is being performed under the direction of counsel.</p> <p>4) We are attaching three reports associated with ignition 20220405 as an example of typical EIA work products.</p> <p>1. WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf</p> <p>2. WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf</p> <p>3. WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf</p> <p>The ignition occurred on April 11th, 2022 because of an improperly installed connection device. As a result of this fire, we conducted additional connection device and jumper from the incident circuit, and as in the process of reviewing and installing additional connection devices and jumpers from the incident circuit. The report includes the following information: 1) Preliminary Safety documents related to connection device installation methods. The report includes the following: 1) Preliminary Safety Investigation Report (PSIR) with event details and location history. 2) Material analysis report produced by Applied Technology Services (ATS) detailing the suspected failure mode and an initial Corrosion Investigation Report (CIR) produced by our Asset Strategy department related to corrective and evasive actions associated with that failure mode.</p> <p>4) Please see "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for table of ignitions where PG&E has completed EIA related evaluation actions. Note the following:</p> <p>1. The set contains events where CPZs, if applicable, may not have been met and ignitions where the suspected cause of the fire was not PG&E assets through the EIA process. We added CPZs responsibility to the attached table for reference.</p> <p>2. We used the data streams from the 2023 OI-CER Table templates for "Main Type" and "Ignition Owner".</p> <p>3. Given the volume of ignitions, we are not able to provide a summary of each event in the attached table to respond to this data request. Given submittals, we could review each incident and provide a short description of the event upon request.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	4	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-04 Asset Application of Specific Lessons Learned from Liability-Caused Fires
186	OEIS	002	OEIS_002	9	OEIS_002_09	<p>a) Provide the definitions for the EPSS Outage Types under Column J for the table labeled "2022 EPSS Outage Data".</p> <p>b) When would PG&E perform an EPSS-caused outage to determine which outages would have led to an ignition?</p> <p>c) What percentage of EPSS-caused outages since the establishment of the EPSS program would have led to an ignition had EPSS not been enabled?</p> <p>d) When does a year since establishment of the EPSS program, how many ignitions have occurred on EPSS-enabled circuits where EPSS was enabled at the time of ignition?</p> <p>e) When does a year since establishment of the EPSS program, how many ignitions have occurred on EPSS-enabled circuits where EPSS was not enabled at the time of ignition?</p> <p>f) In PG&E's response to RN-P&E-22-10, PG&E provided additional reliability measures in Table RN-P&E-22-10-05: EPSS System Reliability Remediation & Corrective Actions, such as targeted equipment repair. In PG&E will using all of the identified reliability measures within this table? If not, provide a list of reliability measures PG&E is no longer using, as well as an explanation as to why it is no longer being used.</p> <p>g) Provide the OI for the Figure PG&E-22-02: Circuit by Number of EPSS Outages.</p> <p>h) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>h) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>i) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>j) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>k) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>l) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>m) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>n) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>o) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>p) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>q) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>r) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>s) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>t) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>u) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>v) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>w) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>x) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>y) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p> <p>z) Provide an updated Excel version of 2023-03-27_PGE_2023_WMP_A0_Appendix D A0 PG&E-22-02_A001 with additional columns on the 2022 "2022 CPZ Data".</p>	<p>a) The table below defines each of the four (4) values appearing in column "J" of the spreadsheet PG&E provided:</p> <p>EPSS Outage Type</p> <p>PS "No Safety" - Post-Optimized Circuit Settings</p> <p>H "No Line Tag" - Pre-Optimized Circuit Settings</p> <p>EPSS "Transmission" - EPSS outages on transmission lines</p> <p>COUT "Protecting Out-of" - Only applies to routine blocking</p> <p>EPSS does not cause outages. Any time there is a fault condition on powerlines, there is an inherent risk of sparks and/or thermal energy dissipation from that fault condition leading to a potential wildfire ignition. These conditions have been installed in a laboratory environment to both demonstrate that fault conditions on ignites vegetation as well as demonstrate that the energization of the line with EPSS significantly reduces the fault energy and associated sparks contacting the vegetation. It is acknowledged that certain fault types may present a high risk of wildfire ignition. An example of this could be an underground cable fault within a mixed overhead and underground system protected by a common protective device. Out of the table outages experienced during EPSS establishment only a small fraction of the outages could be characterized as having a low ignition potential.</p> <p>b) More than 50% of outages that occurred in 2022 while EPSS protection was enabled presented a potential ignition risk.</p> <p>c) In 2021, there were five Reportable Fire Ignitions (RFIs) in HPTD on circuits enabled with EPSS over the time period of January 1st - October 20th where the EPSS was implemented on 170 circuits. In 2022, there were three RFIs on EPSS-enabled circuits in HPTD over the time period of May 20th - Oct 20th. There have been 0 ignitions with EPSS enabled in 2023 to date.</p> <p>d) We reviewed the data for the testing effort RFI test occurrence determination of EPSS capable devices where EPSS was not enabled. In 2021, there were 2 RFIs in HPTD downstream of an EPSS capable device that was not EPSS enabled in 2022, there were 23 RFIs in HPTD downstream of an EPSS capable device that was not EPSS enabled, and in 2023 we are to date have been 0.</p> <p>e) OIIS file is attached/included "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" (in XMS format). Please see the updated version of the requested document in the table below for more information on the reliability remediation.</p> <p>f) The updated excel version of "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" includes the additional columns requested. These columns allow user CPZs to be assigned to additional reliability remediation columns.</p> <p>g) These reliability mitigations are scoped to the CPZ where they will have the greatest impact based on the mitigation and the reliability history.</p>	Colin Long	4/13/2023	4/18/2023	4/18/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-05 Updates on EPSS Reliability Study
187	OEIS	002	OEIS_002	10	OEIS_002_10	<p>a) Provide an Excel table listing all work orders closed by PG&E in 2022 following the same format and information as Table 13 of the OIR, with the additional columns:</p> <p>i) Date the work order closed</p> <p>ii) PG&E Priority (A, B, C, H, and F)</p> <p>iii) Whether the infrastructure qualified as an "Ignition-Risk HPTD/FNRA" tag</p> <p>iv) Whether the infrastructure is Non-Pole or Pole</p> <p>v) Whether the updated Excel sheet listing all work open work orders following the same format and information as Table 13 of the OIR, with the additional columns:</p> <p>i) PG&E Priority (A, B, C, H, and F)</p> <p>ii) Whether or not the infrastructure qualified as an "Ignition-Risk HPTD/FNRA" tag</p> <p>iii) Whether the infrastructure is Non-Pole or Pole</p>	<p>Please see the "Table 13 - Closed" tab in attachment "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for the requested information.</p> <p>Please note, the data was pulled on January 31, 2023.</p> <p>Please see the "Table 13 - Open" tab in attachment "WMP-Discovery2023_DR_OEIS_002-00044611ACONF.pdf" for the requested information.</p> <p>Please note, the data was pulled on February 20, 2023.</p>	Colin Long	4/13/2023	5/9/2023	5/9/2023	https://www.ansi.org/standards/ansi-a300 https://www.isa-arbor.com/certification/traq https://www.isa-arbor.com/certification/traq	1	NA	8.1.7	Open Work Orders	NA

188	TURN	005	TURN_005	1	TURN_005_01	<p>POE will send time relevant decision trees to review upon System Hardening (1) System Hardening, (2) Targeted Underwriting, and (3) the final design being placed in an RT before the Targeted Underwriting program. POEE systematically used the System Hardening base alternative WMP-Down2022_DIR_TURN_005-0001(A)020 and the Final Detailed Decision Tree base alternative WMP-Down2022_DIR_TURN_005-0001(A)020 to scope work. POEE system hardening work in 2023 was scoped using these decision trees.</p> <p>Since late 2021, POEAE has completed most of our planned scoping using a Targeted Underwriting decision tree base alternative WMP-Down2022_DIR_TURN_005-0001(A)010 after the review is completed (if feasible) if underwriting is otherwise determined to be infeasible, we typically proceed with overhead conductor.</p> <p>Since our current scope efforts primarily utilize the Targeted Underwriting decision tree, and the final detailed decision tree (where appropriate), we provide additional context regarding these trees below in response to the request. The primary approach for identifying underwriting risks used the risk identification methodology: (1) Top 20 percent cost savings based on the 2021 WDRM v.4 and (2) the relative feasibility efficiency (RFE) of overhead conductor segments from 2022 WDRM v.3 and considering underwriting flexibility. Both approaches used to select underwriting projects represent approximately 70 percent of total available risks.</p> <p>Please see attachment "WMP-Down2022_DIR_TURN_005-0001(A)010". The decision tree reflects the process of identifying overhead conductor segments that are not feasible for removal. The process includes: 1. Review of the decision tree and associated tables, in a spreadsheet for key phases. 2. Circuit Selection (Priority) Process (base): This is a process that identifies the locations where underwriting is the highest based on the latest wildfire distribution risk model (primary WDRM v.3). 3. Feasibility Study (green boxes): First, we confirm the segment identified is not already completed or included in existing work. Then, engineering review identifies opportunities to improve efficiency and mitigate additional impacts, including adjusting the project to mitigate PSPS or EPSS impacts, determining if underwriting is infeasible (if so, identifying alternatives such as overhead, service pole or hybrid), and confirming if there are any recent changes to the electric assets. 4. Field Scoping (orange boxes): Field scoping then takes place, which is focused on identifying impediments to the proposed project and determining if a route or access change is required. If so, an alternative route is developed. Then, we sequence bundled risks and begin the planning phase of work. We also have a decision tree for underwriting during emergency response, see first in standard EMER-4024s. This standard describes the required actions that must be taken while performing system hardening during emergency response. See Attachment "EMER-4024s-Underwriting-Decision-Trees".</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	3	NA	8.1.2	Grid Design and System Hardening	ALL
189	TURN	005	TURN_005	2	TURN_005_02	<p>If the response to question 1 is that POEAE has no such decision tree schematic, then please describe the process that POEAE uses to decide, for a given location, which mitigation technique to use - i.e., underwriting covered conductor, remove grid installation, etc. - including without limitation the criteria that POEAE uses to select the mitigation technique for that location.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2	Grid Design and System Hardening	ALL
190	TURN	005	TURN_005	3	TURN_005_03	<p>In choosing among alternative system hardening mitigation techniques - i.e., underwriting, covered conductor, remove grid installation, etc. - for a given location, please explain how POEAE takes into account the execution and schedule risks associated with underwriting compared to other alternatives. POEAE discusses these risks in POEAE 2023-2025 WMP on page 346-348. They were also discussed in POEAE's Revised 2021 WMP (version dated 6/20/21) at pages 800-801 (Section 7.3.1.7, Subsection 330), where POEAE lists the terms "execution risk" and "schedule risk."</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2	Grid Design and System Hardening	ALL
191	TURN	005	TURN_005	4	TURN_005_04	<p>For the underwriting work described in POEAE's 2023-2025 WMP please describe POEAE's policy concerning underwriting of service connections and the removal of poles in which service connections are attached. To the extent that the determination varies by project, please describe the criteria that POEAE uses to decide whether POEAE underwrites service connections in a given location.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment - Distribution
192	TURN	005	TURN_005	5	TURN_005_05	<p>For the underwriting work described in POEAE's 2023-2025 WMP please describe POEAE's policy concerning secondary distribution lines. To the extent that the determination varies by project, please describe the criteria that POEAE uses to decide whether POEAE underwrites secondary lines in a given location.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment - Distribution
193	TURN	005	TURN_005	6	TURN_005_06	<p>For the distribution circuits on which POEAE plans System Hardening underwriting (as opposed to Fullband Underwriting) in the next few years, please provide POEAE's lead estimate of the percentage of existing poles in the affected circuits (including poles supporting primary lines, secondary lines, and services) that will be removed as a result of the planned System Hardening underwriting stage in 2023-2025. Please explain how POEAE made this calculation and provide a review and assumptions.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment - Distribution
194	TURN	005	TURN_005	7	TURN_005_07	<p>In the response to the values for 2023-2025 in the column for Estimated System Hardening Underwriting Miles in Table POEAE 8.1.2-2 on page 347 of POEAE's 2023-2025 WMP, POEAE states that POEAE estimates of the overhead circuit miles that will be replaced and explain how this estimate was determined.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment - Distribution
195	TURN	005	TURN_005	8	TURN_005_08	<p>In the response to the values for 2023-2025 in the column for Estimated System Hardening Underwriting Miles in Table POEAE 8.1.2-2 on page 347 of POEAE's 2023-2025 WMP, POEAE states that POEAE estimates of the overhead circuit miles that will be replaced and explain how this estimate was determined.</p>	Tom Long	4/19/2023	4/19/2023	4/19/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment - Distribution
196	CaPA	Set WMP-16	CaPA_Set WMP-16	1	CaPA_Set WMP-16_01	<p>Regarding POEAE's SCADA Underground (UG) Switches:</p> <p>a) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>b) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>c) Please explain in detail POEAE's scoping procedures, from start to finish, for the following operation after closing a normally open switch, the switch is returned to its normally open position during switching:</p>	Holly Welman	4/19/2023	4/21/2023	4/21/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	2	NA	8.1.2.2	Grid Design and System Hardening	Underwriting of Electric Lines and/or Equipment
197	CaPA	Set WMP-16	CaPA_Set WMP-16	2	CaPA_Set WMP-16_02	<p>Regarding POEAE's Load Break Blades:</p> <p>a) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>b) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>c) Please explain in detail POEAE's scoping procedures, from start to finish, for the following operation after closing a normally open switch, the switch is returned to its normally open position during switching:</p>	Holly Welman	4/19/2023	4/21/2023	4/21/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.10.3	Grid Design and System Hardening	Motor Switch Operator Switch Replacement
198	CaPA	Set WMP-16	CaPA_Set WMP-16	3	CaPA_Set WMP-16_03	<p>Regarding POEAE's Junction Boxes:</p> <p>a) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>b) Please explain POEAE's scoping procedures or other documentation related to your response to part (a).</p> <p>c) Please explain in detail POEAE's scoping procedures, from start to finish, for the following operation after closing a normally open switch, the switch is returned to its normally open position during switching:</p>	Holly Welman	4/19/2023	4/21/2023	4/21/2023	https://www.pge.com/pge_gov/underwriting/underwriting-decision-trees	0	NA	8.1.2.10	Grid Design and System Hardening	Other Grid Technology Improvements to Mitigate Risk of Ignition

233	CAIPA	Sat WMP-17	CaIPa_Sat WMP-17	CaIPa_Sat WMP-17_02	In general, identify all factors POSE considers when deciding that a CPZ with a large average risk profile or large total risk in WDRM V3 should be prioritized for PG&E's 2023 WMP project selection.	<p>We are selecting locations in 2022 and 2023 based on the Wildlife Feasibility Effectiveness (WFE) analysis, which leveraged WDRM V3 risk data, to prioritize for project selection. As part of the WFE analysis, for operational efficiency, individual Circuit Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together with adjacent CPZs that are also identified for targeted undergrounding, the combined bundled WFE scores are used to select projects. In that process, it is possible that an individual CPZ with a larger average risk profile combined with another adjacent CPZ within the 10-year undergrounding plan scope that may result in a higher combined WFE score than the bundled project to be selected for project development.</p> <p>We believe the CPZ bundling approach is appropriate not only to improve field operational efficiency but also because bundling adjacent CPZs:</p> <ul style="list-style-type: none"> • Provides continuity with other projects to minimize re-work, temporary facilities, and allow for a more complete design solution. • Allows for near-term PSPS and EPSS benefits by bundling nearby segments together. • Provides for more comprehensive customer and community engagement as opposed to multiple projects being developed in close proximity. • Allows for work to be presented in the 2023 WMP as developed using numerous factors that could cause a particular project to be prioritized for the 2023 WMP project selection. <p>1) Due to the typically long timelines required to develop and construct an underground project, 2022 WDRM V3 risk data may be primarily reflected in the early years in the 2023-2025 schedule, with most of the portfolio being implemented by 2027 WDRM V3.</p> <p>2) There may be to carry over work from previous workbooks that must be completed, if a project had been initiated in a prior period it will be worked to completion.</p> <p>3) The WFE selection strategy utilizing WDRM V3 takes various cost and schedule optimization inputs into its selection methodology including:</p> <ul style="list-style-type: none"> • Area selection • Underground difficulty and long-term permitting risks • Circuit segment bundling • Resource readiness and availability • Previously finished facilities • Third-party customer owned facilities <p>4) Some projects have been selected due to File results, PSPS mitigation or based on input from Public Safety.</p>	Matthew Taut	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
234	CAIPA	Sat WMP-17	CaIPa_Sat WMP-17	CaIPa_Sat WMP-17_03	In general, identify all factors POSE considers when deciding that a CPZ with small risk profile and small average risk profile in WDRM V3 should be prioritized for PG&E's 2023 WMP project selection.	<p>As shown in the Table, the Calculated Risk/Miles figure are incorrect as well. We also note that we do not use the term "cumulative risk." The use of the term "cumulative risk" and the related question involving "cumulative risk" across any differences between these two terms is not relevant to our response.</p> <p>1) The total risk length of undergrounding which PG&E quotes for each UG project in Confidential responses to Question 1 on "WMP-2023/2022_DR_Calculations_EPSS"</p> <p>2) A calculated "risk per mile" or "average risk" was derived from the two previous values.</p> <p>3) Whether the CPZ has experienced elevated risk in WDRM V3 in the past three years</p> <p>4) PG&E 2023 WMP's decision to which program the CPZ belongs (based on referenced Question 1 on "POSE-2023/2022/2021_DR_V4_Responses_Dist_Questions" for projects in the 2022-2024 timeframe)</p> <p>5) PG&E 2023 WMP's risk rank for each CPZ (based on referenced Question 1 on "POSE-2023/2022/2021_DR_V4_Responses_Dist_Questions" for projects in the 2022-2024 timeframe)</p> <p>6) PG&E 2023 WMP Wildlife Feasibility Effectiveness (WFE) Score for each CPZ (based on referenced Question 1 on "POSE-2023/2022/2021_DR_V4_Responses_Dist_Questions" for projects in the 2022-2024 timeframe)</p> <p>3) We can explain why these CPZs in Table 2, with small risk profile and small average risk profile in WDRM V3 are being considered as selected projects for Undergrounding.</p> <p>1) Please provide reasons why PG&E did not opt for alternatives to underground CPZ "PINE GROVE 110214363 given that the CPZ is comparatively long with a low average and small cumulative risk profile. "Alternative to underground" includes other means by which to reduce risk such as use of Covered Conductor or a Hybrid OGDH approach.</p> <p>2) Provide reasons why PG&E did not opt for alternatives to underground CPZ "STANISLAUS 17021888" given that the CPZ is comparatively long with a low average and small cumulative risk profile. "Alternative to underground" includes other means by which to reduce risk such as use of Covered Conductor or a Hybrid OGDH approach.</p> <p>3) Please identify all factors under consideration that resulted in priority given to CPZ "STANISLAUS 17021888" with a cumulative risk score of 2.4 and distance to underground of 24.9 miles in PG&E's 2023 WMP for mitigation over other CPZs such as "CARMICHAEL 17015140" with a cumulative risk score of 1.9 and distance to underground -19 miles, "SEAR VALLEY 210205" with a cumulative risk score of 7.45 and distance to underground -18 miles, "NEEDHAM 11010107" with a cumulative risk score of 0.8 and distance to underground -01 miles.</p>	Matthew Taut	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
235	CAIPA	Sat WMP-17	CaIPa_Sat WMP-17	CaIPa_Sat WMP-17_04	In general, identify all factors POSE considers when deciding that a CPZ with small risk profile and small average risk profile in WDRM V3 should be prioritized for PG&E's 2023 WMP project selection.	<p>We are selecting locations in 2022 and 2023 based on the Wildlife Feasibility Effectiveness (WFE) analysis, which leveraged WDRM V3 risk data, to prioritize for project selection. As part of the WFE analysis, for operational efficiency, individual Circuit Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together with adjacent CPZs that are also identified for targeted undergrounding, the combined bundled WFE scores are used to select projects. In that process, it is possible that an individual CPZ with a larger average risk profile combined with another adjacent CPZ within the 10-year undergrounding plan scope that may result in a higher combined WFE score than the bundled project to be selected for project development.</p> <p>We believe the CPZ bundling approach is appropriate not only to improve field operational efficiency but also because bundling adjacent CPZs:</p> <ul style="list-style-type: none"> • Provides continuity with other projects to minimize re-work, temporary facilities, and allow for a more complete design solution. • Allows for near-term PSPS and EPSS benefits by bundling nearby segments together. • Provides for more comprehensive customer and community engagement as opposed to multiple projects being developed in close proximity. • Allows for work to be presented in the 2023 WMP as developed using numerous factors that could cause a particular project to be prioritized for the 2023 WMP project selection. <p>1) Due to the typically long timelines required to develop and construct an underground project, 2022 WDRM V3 risk data may be primarily reflected in the early years in the 2023-2025 schedule, with most of the portfolio being implemented by 2027 WDRM V3.</p> <p>2) There may be to carry over work from previous workbooks that must be completed, if a project had been initiated in a prior period it will be worked to completion.</p> <p>3) The WFE selection strategy utilizing WDRM V3 takes various cost and schedule optimization inputs into its selection methodology including:</p> <ul style="list-style-type: none"> • Area selection • Underground difficulty and long-term permitting risks • Circuit segment bundling • Resource readiness and availability • Previously finished facilities • Third-party customer owned facilities <p>4) Some projects have been selected due to File results, PSPS mitigation or based on input from Public Safety.</p>	Matthew Taut	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
236	TURN	006	TURN_006	TURN_006_01	1. Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 4-1, please define the following acronym used in the Decision Tree: PSP EPSS WDC EOP	<p>1) PSP - Public Safety Specialist. PG&E PSPS team members with extensive, local wildfire operations experience. Many have a previous career with CAL FIRE or other fire agencies.</p> <p>2) EPSS - Field Emergency Dispatching. Meeting to ensure potential undergrounding project sites held in office as requested to the field.</p> <p>3) WDC - Wildfire Governance Software. Program used by PG&E to evaluate project economics.</p> <p>4) EOP - Electric Contingency Optimization. Program used to evaluate project economics. A OEC - Operational Contingency Center - Regional operations center that is activated during an emergency event to manage resources and respond locally.</p> <p>5) Generator - A generator that is used to provide power to the system during an emergency event to manage resources and respond locally.</p> <p>6) Generator - A generator that is used to provide power to the system during an emergency event to manage resources and respond locally.</p> <p>7) Generator - A generator that is used to provide power to the system during an emergency event to manage resources and respond locally.</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
237	TURN	006	TURN_006	TURN_006_02	Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 5-1, did you discuss in the response 5-1 the System Hardening Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation to select a given location? If the answer is "no" anything other than an operational "no," please explain each and every circumstance under which PG&E selects a given System Hardening Decision Tree for future projects.	<p>1) No. The System Hardening Decision Tree was used to scope base system hardening projects in the workshop from 2022-2024. We were selected using the WDRM, version 3. Much of that work was related to locating the new 115 kV bus project announcement in late 2021. This System Hardening Decision Tree is not and will not be used for any future project.</p> <p>2) NA</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
238	TURN	006	TURN_006	TURN_006_03	Regarding the Undergrounding Decision Tree provided as Attachment 1 to the response to TURN data request 5-1, did you discuss in the response 5-1 the System Hardening Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation to select a given location? If the answer is "no" anything other than an operational "no," please explain each and every circumstance under which PG&E selects a given System Hardening Decision Tree for future projects.	<p>1) No. The System Hardening Decision Tree was used to scope base system hardening projects in the workshop from 2022-2024. We were selected using the WDRM, version 3. Much of that work was related to locating the new 115 kV bus project announcement in late 2021. This System Hardening Decision Tree is not and will not be used for any future project.</p> <p>2) NA</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
239	TURN	006	TURN_006	TURN_006_04	Regarding the Fire Retardant Decision Tree provided as Attachment 2 to the response to TURN data request 5-1, did you discuss in the response 5-1 the System Hardening Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation to select a given location? If the answer is "no" anything other than an operational "no," please explain each and every circumstance under which PG&E selects to use the Decision Tree for future fire retardant projects.	<p>1) No. The System Hardening Decision Tree was used to scope base system hardening projects in the workshop from 2022-2024. We were selected using the WDRM, version 3. Much of that work was related to locating the new 115 kV bus project announcement in late 2021. This System Hardening Decision Tree is not and will not be used for any future project.</p> <p>2) NA</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
240	TURN	006	TURN_006	TURN_006_05	Regarding the response to TURN data request 5-4, please explain the following terms used in the last paragraph of the response: 1) "Service" connection 2) "Distribution" connection	<p>1) Gray Services - An other type of installed service aerial conductor that is more susceptible to water ingress and deterioration.</p> <p>2) The way connects - In this context, a service or secondary wire that is tied / connected directly to trees instead of poles.</p> <p>3) The way connects - In this context, a service or secondary wire that is tied / connected directly to trees instead of poles.</p> <p>4) The way connects - In this context, a service or secondary wire that is tied / connected directly to trees instead of poles.</p> <p>5) The way connects - In this context, a service or secondary wire that is tied / connected directly to trees instead of poles.</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
241	TURN	006	TURN_006	TURN_006_06	Regarding the response to TURN data request 5-6, in PG&E unable to offer a rough approximation of the percentage of existing poles that will be topped? If the answer is "no" anything other than an operational "no," please explain each and every circumstance under which PG&E selects to use the Decision Tree for future fire retardant projects.	<p>1) No. The System Hardening Decision Tree was used to scope base system hardening projects in the workshop from 2022-2024. We were selected using the WDRM, version 3. Much of that work was related to locating the new 115 kV bus project announcement in late 2021. This System Hardening Decision Tree is not and will not be used for any future project.</p> <p>2) NA</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
242	TURN	007	TURN_007	TURN_007_01	1. Regarding the 2023-2024 Undergrounding Workplan referenced on page 910 of the WMP (R1) and provided in Excel format in response to TURN Data Request 2-4, please explain what, if any, other or both of Simplified Wildfire Risk Exposure (SWIRE) and Wildlife Feasibility Effectiveness (WFE) values (discussed in question 108 of the WMP (R1)) were used in developing this workplan? Please explain what circumstances PG&E used to prioritize projects in the workplan and how such measures were used.	<p>1) The SWIRE and WFE values were used to prioritize projects in the workplan and how such measures were used.</p> <p>2) The SWIRE and WFE values were used to prioritize projects in the workplan and how such measures were used.</p> <p>3) The SWIRE and WFE values were used to prioritize projects in the workplan and how such measures were used.</p> <p>4) The SWIRE and WFE values were used to prioritize projects in the workplan and how such measures were used.</p>	Tom Long	4/21/2023	4/26/2023	4/26/2023	https://www.pge.com/en/eng/about-us/our-projects/undergrounding-electric-lines-and-equipment-distribution	1	Yes	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

282	TURN	009	TURN_009	1	TURN_009_01	<p>As explained on page 666 of the 2023-2025 WMP, PG&E developed a measurement described in the 2022 Revised (R) of the Environmental Impact Statement (EIS) for the proposed project. The Risk Feasibility Efficiency (RFE) is defined as the ratio of the RFE score to the RFE score for the baseline condition. The RFE score is calculated as follows:</p> <p>$RFE = \frac{RFE_{score}}{RFE_{baseline}}$</p> <p>Where:</p> <ul style="list-style-type: none"> RFE_{score} = Value Risk + ... Value Risk RFE_{baseline} = Value Risk + ... Value Risk <p>The RFE score is calculated as follows:</p> <p>$RFE_{score} = \sum (RFE_{score} \times Weight)$</p> <p>Where:</p> <ul style="list-style-type: none"> RFE_{score} = Value Risk + ... Value Risk Weight = Weight assigned to each risk factor <p>1. Regarding the 2023-2025 Undergrounding Workplan referenced on page 910 of the WMP (R1) and provided in Attachment 1 to the 2023-2025 WMP, PG&E is providing the following information:</p> <p>For each undergrounding project listed in this document, please provide the RFE calculated in accordance with the CPUC's S&M Settlement (see pp. 242 et seq. of PG&E's WMP-R1) (not SWRSE or WFE) that PG&E calculated for the undergrounding project. Please provide all inputs and calculations for these RFE values, in a spreadsheet format, for each project listed in this document. Please provide the RFE calculated in accordance with the CPUC's S&M Settlement (see pp. 242 et seq. of PG&E's WMP-R1) that PG&E calculated for any alternative mitigation for the project location, but not limited to covered conductors. Please provide all inputs and calculations for these RFE values, in a spreadsheet format.</p>	Tom Long	4/26/2023	5/1/2023	5/1/2023	0	N/A	Appendix D	Appendix D - Areas for Continued Improvement	ACD PG&E 23-16 - Progress and Updates on Undergrounding and Risk Mitigation	
283	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	1	MGRA_Data Request No. 3_01	<p>Please provide for Asset Point data for Camera, Fuser, Support Structure, and Weather Station.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
284	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	2	MGRA_Data Request No. 3_02	<p>Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
285	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	3	MGRA_Data Request No. 3_03	<p>Provide PPSPs Event data, Include Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Provide all PPSPs Event Asset Damage data including photos.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
286	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	4	MGRA_Data Request No. 3_04	<p>Provide Risk Event Point data, including Wire Down, Ignition, Transmission equipment outage (as classified non-confidential), Distribution Equipment Outage, Distribution Vegetation Caused Equipment Outage, Risk Event Asset Log.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
287	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	5	MGRA_Data Request No. 3_05	<p>Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested at this time.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
288	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	6	MGRA_Data Request No. 3_06	<p>Under Initiatives, please provide Other Initiative data per point, line, polygon features and the Other Initiative Log.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
289	MGRA	Data Request No. 3	MGRA_Data_Request No. 3	7	MGRA_Data Request No. 3_07	<p>Under Other Required Data, please provide Red Flag Warning Day polygon data.</p>	Joseph Michal	4/27/2023	5/9/2023	4/27/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
290	CaPA	Set WMP-21	CaPA_Set WMP-21	1	CaPA_Set WMP-21_01	<p>The Table 2-12 Vegetation Management Implementation Objectives, PG&E's Focused Tree Inspection (FTI) Program is currently under development. By the end of 2022, PG&E plans to fully implement a KOC cross-sectional data to implement guidelines across all KOCs. PG&E states in response to question 11 of data request CallOut/Issues-PGE/WMP-15 that as FTI pilot of 300 covered lines is required to pilot the sampling method to support and inform future work plan. Please provide an anticipated schedule for PG&E's rollout of the Focused Tree Inspection Program in the table below (starting with an intended, include, and intended, other and how PG&E will execute the pilot, and any data collected from these pilots, and transferable data sets on fully realized Focused Tree Inspection Program. Steps implementing the Focused Tree Inspections Program. Beginning Date Completion Date</p>	Holly Walman	4/27/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
291	CaPA	Set WMP-21	CaPA_Set WMP-21	2	CaPA_Set WMP-21_02	<p>Per Table 2 in PG&E's Revised Quarterly Data Report for quarter 4 of 2022, PG&E had the following numbers of Level 1 and 2 findings from distribution inspections in the HFTD in 2020, 2021, and 2022:</p> <p>Distribution Inspection Findings in HFTD</p> <p>2020</p> <p>2021</p> <p>2022</p> <p>Detailed Inspection Level 1 Findings</p> <p>48,305</p> <p>21,153</p> <p>1,542</p> <p>Detailed Inspection Level 2 Findings</p> <p>13,029</p> <p>823</p> <p>107</p> <p>Partial Inspection Level 2 Findings</p> <p>200</p> <p>104</p> <p>20</p> <p>Other Inspection Level 3 Findings</p> <p>15</p> <p>0</p> <p>0</p> <p>Other Inspection Level 2 Findings</p> <p>10,110</p> <p>12,195</p> <p>3,033</p> <p>Other Inspection Level 1 Findings</p> <p>0</p> <p>0</p> <p>0</p>	Holly Walman	4/27/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	1	N/A	QDR	NA	NA
292	CaPA	Set WMP-21	CaPA_Set WMP-21	3	CaPA_Set WMP-21_03	<p>The confidential attachment is being provided pursuant to the accompanying confidentiality declaration. Please view the quote in its entirety in the CallOut/Issues-PGE/WMP-15, question 14. For transmission inspections training, the top QC findings were shared with all returning and new inspectors as part of 2023 Onboarding and Refresher. Asset Transmission Inspections 1) C-checks and hanger plates: PG&E created visual diagrams to help identify wear and corrosion on c-checks and hanger plates. Please see the Attachment page 121-124 and job aid TS-101M-JA-07. 2) Insulators: PG&E developed training and documentation for identifying issues from Resistor Heating/Charging/Contamination/corrosion. Additionally, PG&E continue to share all uncommon issues PG&E finds amongst our field staff to ensure alignment and consistent resolution. Please see the Attachment page 92-112 and job aid TS-101M-JA-07. 3) Corner pins: PG&E developed training and documentation for identifying different angles of corner pins and when they become damaged. Please see the Attachment page 111-119 and job aid TS-101M-JA-07. 4) Spacers: PG&E developed training and documentation for identifying cracked spacers and making other observations on damage such as hardware corrosion. Please see the Attachment page 112-123 and job aid TS-101M-JA-07. 5) Struts: PG&E developed training and documentation for identifying different levels of corrosion, and judging when between 40 levels, judging primary vs secondary members, and evaluating the size and severity of any structural damage. Please see the Attachment page 55-76 and job aid TS-101M-JA-04 and TS-101M-JA-06. In addition to the items listed above, PG&E also has an Augmented Reality (AR) application in which we go over any questions or concerns relating to PG&E equipment, with any uncommon issues identified. 6) Transmission Concrete Details (T) Transmission Concrete Detailed Inspections. 7) C-checks: PG&E developed training and documentation that provides examples of issues with c-checks and describes how to identify various levels of inspector risk that was also included in Inspector initial and refresher training, as well as job aid TS-101M-JA-07. 8) Insulators: PG&E developed training and documentation that provides examples of issues with insulators and describes how to identify various types of damage, corrosion, and material loss that may also be included in Inspector initial and refresher training, as well as job aid TS-101M-JA-07. 9) Spacers: PG&E developed training and documentation that provides examples of</p>	Holly Walman	4/27/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	3	N/A	QDR	NA	NA
293	CaPA	Set WMP-21	CaPA_Set WMP-21	4	CaPA_Set WMP-21_04	<p>In response to data request CallOut/Issues-PGE/WMP-15, question 10, PG&E stated: "The five most common problems identified in the QC process are: C-checks, insulator, corner pins, wire issues, and structural issues." For each of the five problems listed above, please list any changes PG&E has made to its inspection process, procedures, or training to reduce the number of inspections with these problems.</p>	Holly Walman	4/27/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	9.2.1	Public Safety Power Shutoff	Risk Thresholds (eg, WS, PF, etc) and Decision-Making Process That Determine the Need for a PPSPs
294	MGRA	Data Request No. 4	MGRA_Data_Request No. 4	1	MGRA_Data Request No. 4_01	<p>Figure PG&E-8.1 R-2 on p. 465 of PG&E's WMP shows that PPSPs will be considered under the following conditions:</p> <ul style="list-style-type: none"> Wind gusts 50-60 mph Relative humidity <30% Dew Point Moisture <6-15 RFI of RCI <p>Page 108 of PG&E's WMP states that the following thresholds are taken into consideration in PPSPs decision-making:</p> <ul style="list-style-type: none"> Relative wind speed above 10 miles per hour Dew Point Moisture (DPM) 10 hour less than percent RFI of RCI 1.000 hour less than 1.1 percent Relative Humidity (RH) below 30 percent Hydroscopic Leaf Moisture below 65 percent Shrub (Chamae) Leaf Wet Moisture below 90 percent RFI above 0.7 <p>With respect to the WMP passages noted above:</p> <ol style="list-style-type: none"> Please explain why these lists are different. What is the difference between an RFI of RCI and a RFI above 0.7? Does PG&E consider sustained wind speeds, gusts, or both in PPSPs decision-making? Please explain your answer. 	Joseph Michal	4/26/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	1	N/A	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD
295	MGRA	Data Request No. 4	MGRA_Data_Request No. 4	2	MGRA_Data Request No. 4_02	<p>Explain why the vast majority of the polygons show low risk (<20%), and why high risk polygons (>70%) are very rare.</p>	Joseph Michal	4/26/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	0	N/A	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD
296	MGRA	Data Request No. 4	MGRA_Data_Request No. 4	3	MGRA_Data Request No. 4_03	<p>Explain why the polygons do not cover all of the primary distribution lines in the HFTD. Example below:</p>	Joseph Michal	4/26/2023	5/9/2023	5/9/2023	<p>https://www.pge.com/pge_global/common/urls/...</p>	1	N/A	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD

345	TURN	012	TURN_012	2	TURN_012_02	<p>The table below lists the wildfire mitigation programs proposed in the WMP and the GRC for the years 2023-2025 and describes differences between the two. The information provided below consists of summaries of longer discussions provided in either the WMP or the GRC.</p> <p>The population of wildfire mitigation programs includes:</p> <ul style="list-style-type: none"> The WMP Comprehensive Monitoring and Data Collection Mitigation (2023-2025 WMP, R1, pages 268-286). The WMP Operational Mitigation (2023-2025 WMP, R1, pages 288-271). The WMP System Resilience Mitigation (2023-2025 WMP, R1, pages 271-276). Wildfire mitigation included in PG&E's Fuel Year (FY) 2023 GRC but not included in the 2023-2025 WMP. <p>The information in this table demonstrates that PG&E's wildfire mitigation programs continue to evolve from the one we first filed on 7/23/2023 (June 30, 2021) to when we submitted our 2023-2025 WMP. Most of the mitigation programs listed in the FY 2023 GRC are also included in the 2023-2025 WMP. The table shows that there are some differences between the WMP and GRC for the years 2023-2025, and from 2021 to 2023 (when PG&E developed our GRC forecasts) through early 2023 (when PG&E filed the WMP). PG&E updated our wildfire mitigation programs by adding programs such as Enhanced Vegetation Management (EVM) and replacing a tree care program that was designed to target vegetation risk areas with the highest risk areas of the High Fire Threat Districts (HFTD) Risk Area (HFTD/RA). Additionally, PG&E refined the scope of other programs, such as information from risk models were updated and/or we learned more about the transactions of combined mitigation strategies. For example, in the GRC, PG&E noted that we planned to install 100 remote covered SCADA monitoring devices each year between 2023 and 2026, but that plans could change pending results of our assessment to address the risks of Meter Switch Operator (MSO) and integration with other enhanced automation and wildfire mitigation efforts.</p> <p>Wildfire Mitigation Program Mitigation Description 2023-2025 WMP 2023 GRC Comprehensive Monitoring and Data Collection Mitigation Disabled Asset Inspections</p> <p>Please find the requested information attached as "WMP-Discovery23_DR_SFD_004-0021602023.xlsx".</p> <p>Please Note: For column E (FPI), the Fire Potential Index (FPI) rating is only assigned to locations in a Fire Index Area (FIA), which are polygons that typically do not always align with HFTDs. The systems that have blades on circuit E did not occur on a circuit segment located in a FIA polygon and therefore do not have associated Fire Potential Index ratings. For column I, (Average), this field is used to capture average for wildfires (i.e. fires greater than 1/2 acre). It will not typically be populated if the fire is less than 1/2 acre unless the average is listed in a report from the engineering agency.</p> <p>Please find the requested information attached as "WMP-Discovery23_DR_SFD_004-0021602023.xlsx".</p> <p>The requested information is identified in column H. Please Note: For column E (FPI), the Fire Potential Index (FPI) rating is only assigned to locations in a Fire Index Area (FIA), which are polygons that typically do not always align with HFTDs. The systems that have blades on circuit E did not occur on a circuit segment located in a FIA polygon and therefore do not have associated Fire Potential Index ratings. For column I, (Average), this field is used to capture average for wildfires (i.e. fires greater than 1/2 acre). It will not typically be populated if the fire is less than 1/2 acre unless the average is listed in a report from the engineering agency.</p> <p>The analysis was completed by first counting the number of days each Fire Index Area (FIA) was forecast as a certain rating per year. These days counts were then multiplied by the number of OH-line miles in each FIA to provide the circuit-mile-days. Please note that between 2014 and 2016 we did not record FIA ratings below RA, and between 2014 and 2017 we did not record FIA ratings RA+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>FPI Rating Circuit Mile Days Total OH Line Miles Year R01 R2 R3 R4 R5 2014 NA NA 57121 12820 NA 2015 NA NA 125478 23268 NA 2016 2214625 222478 72068 110245 14622 NA 2017 2622628 284740 161810 594085 70774 10716 2018 4632314 147234 1462324 171038 27123 176801 2019 3020003 279268 126160 196877 57872 87184 2020 1463071 207872 221474 1462644 11448 20774 2021 2043007 158787 201280 1381493 112438 0 2022 2443444 145161 81610</p> <p>Please find the requested information below. The analysis was completed by counting the number of days each Fire Index Area (FIA) was forecast at a certain rating per year. Please note that between 2014 and 2016 we did not record FIA ratings below RA, and between 2014 and 2017 we did not record FIA ratings RA+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>Year R01 R2 R3 R4 R5 2014 NA NA 216 857 NA 2015 NA NA 361 725 NA 2017 1697 1697 2684 424 141 2018 17047 1356 4659 2054 1755 12 2019 22901 3844 4510 802 540 2020 14821 4016 4856 2854 1303 228 2021 16210 1762 3811 6010 20078 2022 14374 4365 2023 2041 791 0 2023 1200 100 12 0 0</p> <p>Please find the requested information below. The analysis was completed by first counting the number of days each Fire Index Area (FIA) was forecast at a certain rating per year. These days counts were then multiplied by the number of OH-line miles in each FIA and HFTD to provide the circuit-mile-days. This is a slight variation of question 3 that includes all circuit miles in each FIA, as the analysis only counts OH-line miles in a FIA and HFTD area exclusive of FIA. Please note that between 2014 and 2016 we did not record FIA ratings below RA, and between 2014 and 2017 we did not record FIA ratings RA+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>FPI Rating Circuit Mile Days Total OH Line Miles Year R01 R2 R3 R4 R5 2014 NA NA 42565 84203 2015 NA NA 102211 158465 NA 2017 182018 1402738 102069 85146 NA 2018 1310004 340448 136226 50334 80424 9301 2019 182018 1402738 102069 85146 NA 2020 266890 242738 131203 170354 46417 148798 2021 463231 147234 146232 171038 27123 176801 2022 4602610 1373894 173164 1185705 68552 2207 2023 1200 100 12 0 0</p> <p>In general, we have been evaluating our performance metrics against indicators of expected FPI days (e.g., R1 and R2) for the last several years as well as tracking weather days. To provide more specific examples, we are normalizing for weather in the EPRS effectiveness/performance in the following ways: - For 2022, EPRS effectiveness was calculated by comparing the number of current year problems that occurred when EPRS was enabled, divided by the average number of problems that occurred each year from 2015-2022 (the base year) and EPRS criteria using an FPI track cut. - In order to normalize for weather in the operational conditions (as specified by the Fire Potential Index), system counts for each year were divided by the total number of "Critical Data Days" for that year. - Circuit Mile Days were defined as the circuit miles in HFTD/RA for a circuit, multiplied by the number of days the circuit was forecast to be in that rating when EPRS criteria, and added together to determine the total Circuit Mile Days for the year. - Note: If this calculation was performed mid-year, the normalization calculation was only performed through the largest base year. E.g., if effectiveness was measured through 2020, the calculation would only be normalized by Circuit Mile Days through 2019, 2018, and 2017, respectively. - The calculation accounts for the increased fire potential risk exposure on the system for each year, using the same criteria used to determine when EPRS is activated.</p> <p>In the referenced attachment, columns (d) and (e) are the average loading for individual 110kV adjacent to circuit mile and (f) and (g) are the average loading for 110kV adjacent to circuit mile being underground. The average loading is provided for Anderson 110kV but Anderson 110kV is not being underground. Anderson 110kV is not being underground in those years. As mentioned in the response to Q1004, "At the year level by year, the model does exhibit some level of noise that can be high for the top 100 or so of general system loads. For the reason, multiple development 6 generally gated by circuit segment aggregations that provide an improved indication of risk".</p> <p>The data below represents the model based on a set of all attributes in the wildfire mitigation project and geographically, in the fire-grained localization such as PG&E's risk modeling outputs, including the spatial use provided by WMPRA. The fire-grained localization such as PG&E's risk modeling outputs, including the spatial use provided by WMPRA (e.g. heavily forested areas next to non-forested areas). The causal effects of past "hard" mitigation history were not directly modeled in the WMPRA V2. To the extent an asset is replaced as part of a wildfire mitigation project, the asset health, age, and type would be reflected in WMPRA V2 and would contribute to fire-grained localization.</p>	Tom Long	5/5/2023	5/1/2023	5/1/2023	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities
346	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04	1	CPUC - SPD (Safety Policy Division)_04_01	<p>Provide detailed CPUC-operable ignition data (SPD) current data as attached for 2014-2021. The current data is an aggregated data set based on the data from here, under Fire Ignition Data (SPD) is requesting an updated data set to include our potential data.</p> <p>1. VSPD generally understands that some ignitions may have been excluded at the time the data was submitted if the cause of the fire was unclear. 2. Data may have been entered in excess of information was accepted. 3. Data may have been entered in excess of information was accepted. 4. Update the data to the actual number of acres burned rather than a sample of acres.</p> <p>Before submitting final agreed-upon data to VSPD, please send us a conference call to discuss the ignition data available and the incident when the data data is formatted to be used across VSPD.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increase in Risk Events
347	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04	2	CPUC - SPD (Safety Policy Division)_04_02	<p>In addition to the data requested above, please add the following data columns for each ignition: 1. "HFTD": Classify each ignition as whether it was located in a "Zone 1", "Zone 2", "Zone 3", or "Zone 4" 2. "FPI Potential Index": Provide the Fire Potential Index for the location on the day of each ignition.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increase in Risk Events
348	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04	3	CPUC - SPD (Safety Policy Division)_04_03	<p>Provide the total number of circuit-mile-days for each Fire Potential Index rating per year starting in 2014.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	0	NA	8.3.6	Stational Awareness and Forecasting	Fire Potential Index
349	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04_04	4	CPUC - SPD (Safety Policy Division)_04_04	<p>Provide the total number of days per year for each Fire Potential Index rating for each Fire Index Area starting in 2014.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	0	NA	8.3.6	Stational Awareness and Forecasting	Fire Potential Index
350	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04	5	CPUC - SPD (Safety Policy Division)_04_05	<p>Provide the total number of circuit-mile-days for each Fire Potential Index rating in the HFTD per year starting in 2014.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	0	NA	8.3.6	Stational Awareness and Forecasting	Fire Potential Index
351	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_04	6	CPUC - SPD (Safety Policy Division)_04_06	<p>Explain how the ability to normalize for the effect of weather and fuel conditions when understanding its performance each year on ignitions relative to changing weather and fuel conditions year over year.</p>	Henry Sweet	5/5/2023	5/1/2023	5/17/2023	0	NA	8.3.6	Stational Awareness and Forecasting	Fire Potential Index
352	CAI/PA	Set WMP-24	CAI/PA_Set WMP-24	1	CAI/PA_Set WMP-24_01	<p>In reference to your response to Question 11 of DR CAI/PA/CAI/PA-2023-WMP-16, on the excel spreadsheet (WMP-Discovery 2023_DR_016-021164021). On Tables (d) and (e), please identify the circuits with OH to the circuits with OH to US conversion projects in Table (d) through (g).</p>	Holly Walsman	5/5/2023	5/1/2023	5/11/2023	2	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment
353	MGRA	Data Request No. 5	MGRA_Data Request No. 5	1	MGRA_Data Request No. 5_01	<p>In the role source of this POI data the machine learning algorithm described in WDRM documentation? If not what other steps go into the POI?</p>	Joseph Mitchell	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD
354	MGRA	Data Request No. 5	MGRA_Data Request No. 5	2	MGRA_Data Request No. 5_02	<p>In the fire-grained POI distribution as a result of the localization of specific historical categories, characteristics of assets or environments, or both?</p>	Joseph Mitchell	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD
355	MGRA	Data Request No. 5	MGRA_Data Request No. 5	3	MGRA_Data Request No. 5_03	<p>Which of the following characteristics is known or suspected to contribute to the fire-grained localization of POI shown above, and to what degree: a. Vegetation b. True density and height c. Asset age d. Asset health e. Asset location f. Asset condition</p>	Joseph Mitchell	5/1/2023	5/1/2023	5/1/2023	0	NA	6.4.1, 6.4.1.2	Risk Methodology and Assessment	Geospatial Maps of Top Risk Areas Within the PFRA Proposed Updates to HFTD

372	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_01	1	CPUC - SPD (Safety Policy Division)_005_01	<p>1.Regarding costs inherent in PG&E's undergrounding grid hardware mitigation initiatives, please include in calculating cost efficiency and project feasibility as described in the 2023-2025 WMP (p. 340 and p. 368), a table and budgeting forecast.</p> <p>2.What was the average cost per circuit mile for undergrounding in 2022, 2021, and 2020, in the HF TDO, non-HF TDO, and better-weather?</p> <p>3.What is the average cost per circuit mile expected in 2023, 2024, and 2025, in the HF TDO, non-HF TDO, and better-weather?</p> <p>4.For subparts a and c, explain expected, average year-over-year cost changes.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
373	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_02	2	CPUC - SPD (Safety Policy Division)_005_02	<p>2.Provide the utility's cost estimate breakdown for undergrounding per mile. Provide the cost estimate in a commonly used cost-accounting format (e.g., Uniform). If the utility uses a different format, provide internal documentation on the format so CPUC can understand the cost estimate.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
374	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_03	3	CPUC - SPD (Safety Policy Division)_005_03	<p>3.How is PG&E incorporating subsurface variability (e.g., uncovering trench rock, slope, or other conditions preventing significant, physical obstacles) into undergrounding cost calculations? Provide an example.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
375	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_04	4	CPUC - SPD (Safety Policy Division)_005_04	<p>4.PG&E has stated that California trench depth requirements exceeded PG&E trench depth requirements. How has this impacted costs and planning? For planning purposes, what percentage of anticipated underground circuit miles will be impacted by the California trench depth requirements for 2023-2025?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
376	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_05	5	CPUC - SPD (Safety Policy Division)_005_05	<p>5.How does service life impact cost calculation?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
377	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_06	6	CPUC - SPD (Safety Policy Division)_005_06	<p>6.What is the estimated multiplier for conversion from overhead (OH) to underground (UG) (e.g., 1.25 like OH converts to 1.62 like UG)?</p> <p>7.How was this conversion rate derived?</p> <p>8.How was it established as a discounted/operating average for project planning purposes?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
378	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_07	7	CPUC - SPD (Safety Policy Division)_005_07	<p>7.On pilot projects completed to date:</p> <p>a)What is the total dollar cost per mile?</p> <p>b)What is the breakdown of project costs per mile? SPD expects to see the following components inside of the costs, although SPD understands they may not be broken down in the exact format: (Sourcing (e.g., primary line, secondary line, service drop) (Design (e.g., fees for both internal and external designers) (Design Estimating (e.g., labor, materials, other costs) (Construction (e.g., permits, contracts, long-lead materials) (Contractor (e.g., cost construction, electric construction) (Other) (e.g., direct payments to homeowners as homeowners may complex work such as landscaping or road repair)</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
379	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_08	8	CPUC - SPD (Safety Policy Division)_005_08	<p>8.Please provide WMP-Discovery2023_DR_TURB_007-001A001CONF.xlsx, used to address TURB Data Request 7, Question 1, Discovery/PSE calculation for system hardening.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
380	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005_09	9	CPUC - SPD (Safety Policy Division)_005_09	<p>9.On page 151 of the 2023-2025 WMP, PG&E states that the WDMM of ignition sources is PG&E's historical ignition data, 2012-2021 (approximately 2,500 CPUC-reportable ignitions and approximately 1,500 non-reportable ignitions).</p> <p>10.PG&E is using the 1,500 non-CPUC-reportable ignitions in its risk modeling.</p> <p>11.Possible that ~1,500 CPUC-reportable ignition data is approximately 10% similar to the existing CPUC-reportable ignition data (as per SPD_PGC_2023_004 and as per WDMM and WDMM Safety Policy) under Fire System Data?</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.2.1	Risk Methodology and Assessment	Risk and Risk Component Identification
381	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006_01	1	CPUC - SPD (Safety Policy Division)_006_01	<p>1.After it was pointed out by SPD that there appeared to be a discrepancy in the methodologies used to calculate the risk mitigation effectiveness of PSES, Undergrounding and Covered Conductor (CCC), PG&E stated that CCC probably the most "mature" mitigation effectiveness as the effectiveness based on empirical data and cross utility collaborations (PSES is the second most as it is based on empirical data, and that CCC is the least mature as it is effectiveness percentage calculation to account for secondary fire ignition).</p> <p>2.PG&E is providing an update on when this analysis will be finished and submit the analysis when it is finished.</p>	Kevin Miller	5/17/2023	5/22/2023	5/22/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.8.1.1	Grid Design, Operations, and Maintenance	Protective Equipment and Device Settings
382	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006_02	2	CPUC - SPD (Safety Policy Division)_006_02	<p>2.PG&E asserted that PG&E is addressing the risk from secondary lines and service drops in part via replacing the secondary lines and service drops and part via developing covered conductor (CCC) responses to Question 4 of SPD_PGC_2024_003 for additional description. PG&E also stated that there may need to be a wildfire risk assessment for the 195-mile CCC response. PG&E is only stating to apply to primary lines but not service lines. How does PG&E foresee classifying this information in its message?</p>	Kevin Miller	5/17/2023	5/22/2023	5/22/2023	https://www.cpuc.ca.gov/info/documents/undergrounding-electric-lines-and-equipment-distribution	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

397	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	4	CPUC - SPD (Safety Policy Division)_009_04	4)PG&E provides means to verify message receipt in Table 8-49 PG&E Protocols for Emergency Communication to Stakeholder Groups. How accurate is this information with regard to verifying messages are reaching intended recipients? Is it a verified safety customer (i.e., "ringing," but not filled) for messages not being sent to a new number or persons no longer in the household?	Kevin Mahr	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	8.4.1	Emergency Preparedness	Protocols for Emergency Communications
398	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	5	CPUC - SPD (Safety Policy Division)_009_05	5)PG&E issues notifications to AFNMB stakeholders. How does PG&E know that these notifications are received and that contact information is up to date? 6)Does PG&E have a way to corroborate/particularly verify that the contact information on file is current to help ensure such important notices are being received by the intended recipients?	Kevin Mahr	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
399	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	6	CPUC - SPD (Safety Policy Division)_009_06	6)PG&E maintains pre-pandemic customer engagement. Does PG&E have data comparing pre-pandemic engagement to pandemic timeframe engagement efforts and among other things, attendance? For instance, are there metrics on regarding non-AFNMB and AFNMB?	Kevin Mahr	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
400	CPUC - SPD (Safety Policy Division)	009	CPUC - SPD (Safety Policy Division)_009	7	CPUC - SPD (Safety Policy Division)_009_07	7)PG&E states that if an AFN customer does not answer the door, the notification is considered successful if a door hanger is left. What industry practices in PG&E following that classifies a door hanger as a successful notification?	Kevin Mahr	6/20/2023	6/8/2023	6/7/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	8.5.3	Community Outreach and Engagement	Engagement With Access and Functional Needs Populations
405	CaPA	Set WMP-26	CaPA_Set WMP-26	1	CaPA_Set WMP-26_01	a) Please describe your general process or strategy for developing load forecasts. (b) Do you have a written process or procedure for developing load forecasts? (c) If the answer to (b) is "yes," provide a copy. (d) If the answer to (b) is "no," explain why not.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	2	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
406	CaPA	Set WMP-26	CaPA_Set WMP-26	2	CaPA_Set WMP-26_02	a) Do you consider load growth projections when you determine which system hardening measures to deploy for wildfire mitigation purposes? (b) If the answer to (a) is "yes," explain how load growth projections influence your mitigation selection process. (c) If the answer to (a) is "no," explain why not.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
407	CaPA	Set WMP-26	CaPA_Set WMP-26	3	CaPA_Set WMP-26_03	a) When you plan system hardening projects for wildfire mitigation purposes, do you design projects to accommodate forecasted load growth? (b) If yes, what degree of load growth do you design for? (c) Describe your process for incorporating forecasted load growth into the design of system hardening projects (for instance, which scenarios of possible load growth are considered).	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
408	CaPA	Set WMP-26	CaPA_Set WMP-26	4	CaPA_Set WMP-26_04	a) In a typical bare conductor to covered conductor conversion project, is the intention to maintain, increase, or decrease the load capacity at peak operating temperatures? (b) If yes, what degree of load growth do you design for. (c) If the answer to (b) is "no," explain why not.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
409	CaPA	Set WMP-26	CaPA_Set WMP-26	5	CaPA_Set WMP-26_05	a) Are all new covered conductor installation projects designed to accommodate loads greater than current capacity for the same circuit? (b) If the answer to (a) is "yes," explain why not. (c) If the answer to (a) is "no," explain why not.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
410	CaPA	Set WMP-26	CaPA_Set WMP-26	6	CaPA_Set WMP-26_06	a) Are all overhead to underground conductor conversion projects designed to accommodate loads greater than current capacity for the same circuit? (b) If the answer to (a) is "yes," explain why not. (c) If the answer to (a) is "no," explain why not.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
411	CaPA	Set WMP-26	CaPA_Set WMP-26	7	CaPA_Set WMP-26_07	Describe the challenges or advantages realized in increasing load capacity on a circuit that has previously been hardened with covered conductor.	Holly Wathman	7/27/2023	8/10/2023	8/10/2023	https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols https://www.pge.com/en/energy/infrastructure/communications/communications-protocols	0	NA	6.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

432	CaPA	Set WMP-28	CaPA_Set WMP-28	01	CaPA_Set WMP-28_011	<p>1) The scoring of individual tags is not performed differently than the scoring of tags to include in isolation zone boundaries. The correct EC tags WORM-C2 risk scoring methodology begins with all open EC tags, specifically protocols B, E, F, and H. Each tag will be considered an actual performance (P) tag associated with a C2 tag. Each tag has all the PDA pertaining to the EC tag, as matched to the appropriate WORM-C2 risk model to collect the WORM-C2 risk score from the associated model. Once each tag has a WORM-C2 risk score, the scores are summed for the individual tag. If there is a WORM-C2 risk score for an isolation zone, the scores are summed for the entire zone for a final score.</p> <p>2) Use of WORM-C2 risk scores is based on the MAT code in which the notification will be assessed. The unit cost is calculated dividing historical annual total costs by annual total completion in a single MAT. To address the historical average, POSE will incorporate completion costs as it relates to the unit cost, and known opportunities to complete costs such as materials escalation for research.</p> <p>3) Use of WORM-C2 risk scores is based on the MAT code in which the notification will be assessed. The unit cost is calculated dividing historical annual total costs by annual total completion in a single MAT. To address the historical average, POSE will incorporate completion costs as it relates to the unit cost, and known opportunities to complete costs such as materials escalation for research.</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.4	Grid Operations and Procedures	NA
433	CaPA	Set WMP-28	CaPA_Set WMP-28	02	CaPA_Set WMP-28_012	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.4	Grid Operations and Procedures	NA
434	CaPA	Set WMP-28	CaPA_Set WMP-28	13	CaPA_Set WMP-28_013	<p>1) Describe the process by which an inspector performing a field safety assessment can recommend a notification be canceled?</p> <p>2) If an inspector performing a field safety assessment recommends that a notification be cancelled, do any additional checks or verifications take place prior to canceling the notification?</p> <p>3) If the answer to part (b) is yes, describe such additional checks or verifications.</p> <p>4) If the answer to part (b) is no, explain why not?</p>	Holly Waldman	8/10/2023	8/16/2023	8/16/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
435	CaPA	Set WMP-28	CaPA_Set WMP-28	14	CaPA_Set WMP-28_014	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
436	CaPA	Set WMP-28	CaPA_Set WMP-28	015	CaPA_Set WMP-28_015	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.8	Grid Operations and Procedures	NA
437	CaPA	Set WMP-28	CaPA_Set WMP-28	16	CaPA_Set WMP-28_016	<p>1) POSE has not considered them for overhead system hardening. Since line 2021 POSE has prohibited undergrounding as the preferred approach to permanently reduce the system risk.</p> <p>2) POSE has not ruled out these 79 circuit segments for future undergrounding work after completing projects with lower feasibility scores. POSE also already has undergrounding projects in scope through the remainder of the WMP period 2023-2025.</p> <p>3) POSE is in response to Revision Notice 23-05. POSE is in the process of conducting a revised risk assessment for the 79 circuit segments. POSE is conducting a revised risk assessment for the 79 circuit segments. POSE is conducting a revised risk assessment for the 79 circuit segments. POSE is conducting a revised risk assessment for the 79 circuit segments.</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
438	CaPA	Set WMP-28	CaPA_Set WMP-28	17	CaPA_Set WMP-28_017	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment
439	CaPA	Set WMP-28	CaPA_Set WMP-28	18	CaPA_Set WMP-28_018	<p>1) POSE developed a preliminary, updated mitigation effectiveness for undergrounding projects to reduce the residual risk associated with the WMP period 2023-2025.</p> <p>2) POSE developed a preliminary, updated mitigation effectiveness for undergrounding projects to reduce the residual risk associated with the WMP period 2023-2025.</p> <p>3) POSE developed a preliminary, updated mitigation effectiveness for undergrounding projects to reduce the residual risk associated with the WMP period 2023-2025.</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	1	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
440	CaPA	Set WMP-28	CaPA_Set WMP-28	19	CaPA_Set WMP-28_019	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	2	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
441	CaPA	Set WMP-28	CaPA_Set WMP-28	20	CaPA_Set WMP-28_020	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Holly Waldman	8/10/2023	8/15/2023	8/15/2023	0	NA	8.2.2	Vegetation Management and Inspections	Vegetation Management Inspections
442	OEIS	011	OEIS_011	1	OEIS_011_01	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Dakota Smith	8/18/2023	8/23/2023	8/23/2023	0	NA	8.1.3.2.1	Asset Inspections	Detailed Ground Inspections
443	OEIS	011	OEIS_011	2	OEIS_011_02	<p>1) POSE states that an isolation zone is "similar to a circuit protection zone" (Footnote 16 on page 12).</p> <p>2) In an isolation zone identified to a circuit protection zone?</p> <p>3) If the answer to part (b) is no, describe the difference?</p>	Dakota Smith	8/18/2023	8/23/2023	8/23/2023	0	NA	8.1.6	Quality Assurance and Quality Control	NA

479	CaPA	Set WMP-32	CaPA_Set WMP-32	1	CaPA_Set WMP-32_01	<p>Please provide the following data for the years 2020, 2021, 2022, and 2023:</p> <p>a) Number of miles of underground distribution that PG&E installed as part of overhead-to-underground conversion programs for the purpose of wildfire risk reduction.</p> <p>b) Number of miles of overhead distribution PG&E removed as part of the same projects as part (a).</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Projected Overall Risk Reduction
480	CaPA	Set WMP-32	CaPA_Set WMP-32	2	CaPA_Set WMP-32_02	<p>Please provide the same information as requested in Question 1 for underground projects that fall into each of the following categories:</p> <p>a) Rule 20 underground</p> <p>b) Wildfire related underground</p> <p>c) Any other underground not included in Question 1 or parts a and b of this question.</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
481	CaPA	Set WMP-32	CaPA_Set WMP-32	3	CaPA_Set WMP-32_03	<p>Please provide copies of all current, sole-source contracts PG&E has executed with other entities with regard to any of the following:</p> <p>a) Suppliers of materials related to distribution undergrounding projects.</p> <p>b) Entities who perform labor related to distribution undergrounding projects.</p> <p>c) Entities who assist PG&E with planning, permitting, environmental review, and other similar non-construction tasks related to distribution undergrounding projects.</p> <p>d) Any other entities who provide goods or services to PG&E in relation to distribution undergrounding projects.</p>	Holly Welman	10/31/2023	12/1/2023	12/1/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	5	NA	8.1.2	Grid Design, Operations, and Maintenance	Grid Design and System Hardening
482	CaPA	Set WMP-32	CaPA_Set WMP-32	4	CaPA_Set WMP-32_04	<p>Describe all vegetation management activities that PG&E regularly performs around the following line types. In its responses to parts (b) through (f), please describe if and in what ways PG&E's vegetation management activities for the category might differ compared to your response to part (a):</p> <p>a) Aboveground distribution mains located in HFTD/HFRA.</p> <p>b) Aboveground distribution accessories located in HFTD/HFRA.</p> <p>c) Aboveground distribution services located in HFTD/HFRA.</p> <p>d) Right-of-way for underground distribution located in HFTD/HFRA.</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	0	NA	8.2	Vegetation Management and Inspections	NA
483	CaPA	Set WMP-32	CaPA_Set WMP-32	5	CaPA_Set WMP-32_05	<p>Please estimate the typical, annual cost per mile of vegetation management activities that PG&E performs around the following line types:</p> <p>a) Aboveground distribution mains located in HFTD/HFRA.</p> <p>b) Aboveground distribution accessories located in HFTD/HFRA.</p> <p>c) Aboveground distribution services located in HFTD/HFRA.</p> <p>d) Right-of-way for underground distribution located in HFTD/HFRA.</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	9	NA	8.2	Vegetation Management and Inspections	NA
484	CaPA	Set WMP-32	CaPA_Set WMP-32	6	CaPA_Set WMP-32_06	<p>Can A&E understand that, in every project to replace overhead line distribution with covered conductor, PG&E performs pole loading calculations for every pole in the project?</p> <p>a) Is the above characterization correct? Please elaborate if incorrect.</p> <p>b) If not, please provide a threshold safety factor or other result from a pole loading calculation at which it will replace poles in a project.</p> <p>c) If the answer to part (b) is yes, please describe PG&E's threshold(s).</p> <p>d) If the answer to part (b) is no, please explain how PG&E determines which poles to replace in a project.</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy
485	CaPA	Set WMP-32	CaPA_Set WMP-32	7	CaPA_Set WMP-32_07	<p>Please provide the results of all pole loading calculations performed as part of all bare-to-covered conductor replacement projects in 2022 and 2023 as of October 1, 2023. This should contain the following information:</p> <p>a) Pole ID.</p> <p>b) Estimated safety factor before conductor replacement (covered conductor).</p> <p>c) Estimated safety factor after conductor replacement (covered conductor).</p> <p>d) Determination of whether the pole needed replacement based on safety factor.</p> <p>e) Whether the pole was actually replaced.</p>	Holly Welman	10/31/2023	11/14/2023	11/14/2023	<p>https://www.pge.com/content/dam/pge/docs/2023-02-01-Underground-Distribution-Program-Report-2020-2023.pdf</p>	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy

485	CaPA	Sat WMP-32	CaPA_Sat_WMP-32	8	CaPA_Sat_WMP-32_Q8	For each year from 2020 through 2023, please provide ten randomly-selected pole loading calculations performed as part of a base-to-covered conductor replacement program. For each calculation, please provide: a) The full calculation spreadsheet. b) A table summarizing the calculation (for example, an engineer's determination that the calculation demonstrates a pole must be replaced).	4) or PG&E is providing the requested ten randomly-selected pole loading calculations for covered conductors from 2020, 2021, and 2022. Please see attachment "WMP-Discovery2023_DR_CaPAInvoiced_033-0004A010202F.pdf" for the requested calculations. Each of these pole loading calculations contains the inputs, outputs, and associated information requested to clarify if the pole is covered or not being replaced. 5) The discrepancy between the two tables reflects expected multi-year planning where as compared to the moment requested tags to meet our risk reduction targets. The 46,000 tags represent the minimum amount of tags needed to meet our 60% reduce risk reduction in the tag backlog, which was set by the target or our WMP administration. Given the burdening approach proposed in the subsequent WMP administration, the WMP administration will be able to complete a larger amount of tags. This will reduce quantity and risk reduction targets that were initially set in 2023. For more information, please see the attached "WMP-Discovery2023-DR_CaPAInvoiced_033-0004A010202F.pdf" and "WMP-Discovery2023-DR_CaPAInvoiced_034-0001A0103.pdf".	Holly Wetmore	10/1/2023	11/14/2023	11/14/2023	https://www.pge.com/content/dam/pge/docs/2023/11/14/2023-11-14-2023-DR_CaPAInvoiced_033-0004A010202F.pdf https://www.pge.com/content/dam/pge/docs/2023/11/14/2023-11-14-2023-DR_CaPAInvoiced_034-0001A0103.pdf	1	NA	7.2	Widely Migration Strategy Development	Widely Migration Strategy
487	OEIS	015	OEIS_015	1	OEIS_015_01	Regarding confirmation of 2024/2025 targets A. PG&E's 2023-2025 WMP Revision 3 Table 8.1.7.2 (page 555) shows that PG&E expects to close 68,200 backing distribution ignition risk tags in 2024 and 68,200 backing distribution ignition risk tags in 2025. PG&E's targets in Tables 8.3 and 8.4 (pages 556-557) do not reflect the same expected number of backing ignition tag closures outlined in Tables 8.1.7.2, as these tables show targets of closing 46,000 backing ignition tags in 2024 and 50,000 backing ignition tags in 2025. B. Confirm that PG&E intends for targets in Tables 8.3 and 8.4 to be consistent with the 2023-2025 WMP Revision 3 Table 8.1.7.2 (page 555). C. If not, explain the discrepancy between the commitment to close 68,200 backing distribution ignition risk tags in 2024 and 50,000 backing distribution ignition risk tags in 2025 (Table 8.1.7.2, page 555) vs the targets outlined in Tables 8.3 and 8.4 (pages 556-557).	Dakota Smith	11/3/2023	11/8/2023	11/8/2023	https://www.pge.com/content/dam/pge/docs/2023/11/08/2023-11-08-2023-DR_CaPAInvoiced_033-0004A010202F.pdf https://www.pge.com/content/dam/pge/docs/2023/11/08/2023-11-08-2023-DR_CaPAInvoiced_034-0001A0103.pdf	0	NA	8.1.7	Open Work Orders	NA	
488	CaPA	Sat WMP-33	CaPA_Sat_WMP-33	1	CaPA_Sat_WMP-33_01	Please provide an Excel sheet listing (see rows) each work order for tag that was open as of June 30, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns: a) Work order ID number b) Equipment type c) IFTD tag d) Asset class: Distribution or transmission e) GO 95 Rule 18 priority level of the tag f) Utility-specific priority level (A or B) g) Date the tag was originally created h) Due date of the original work order i) Most recent date the work order was reworked or modified (if applicable) j) Due date of the work order after being reworked or modified (if applicable) k) Date the work order was completed & closed, if any. Note: tags in the work order are completed & closed by 6/30/23.	Aaron Louis	11/9/2023	11/28/2023	11/28/2023	https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_033-0004A010202F.pdf https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_034-0001A0103.pdf	1	NA	8.1.7	Open Work Orders	NA	
489	CaPA	Sat WMP-33	CaPA_Sat_WMP-33	2	CaPA_Sat_WMP-33_02	Please provide an Excel sheet listing (see rows) each work order for tag that was open as of September 30, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns: a) Work order ID number b) Equipment type c) IFTD tag d) Asset class: Distribution or transmission e) GO 95 Rule 18 priority level of the tag f) Utility-specific priority level (A or B) g) Date the tag was originally created h) Due date of the original work order i) Most recent date the work order was reworked or modified (if applicable) j) Due date of the work order after being reworked or modified (if applicable) k) Date the work order was completed & closed, if any. Note: tags in the work order are completed & closed by 9/30/23.	Aaron Louis	11/9/2023	11/28/2023	11/28/2023	https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_033-0004A010202F.pdf https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_034-0001A0103.pdf	1	NA	8.1.7	Open Work Orders	NA	
490	CaPA	Sat WMP-33	CaPA_Sat_WMP-33	3	CaPA_Sat_WMP-33_03	Please provide an Excel sheet listing (see rows) each work order for tag that was open as of November 8, 2023, and was a Level A or B tag. For each tag, provide the following information in separate columns: a) Work order ID number b) Equipment type c) IFTD tag d) Asset class: Distribution or transmission e) GO 95 Rule 18 priority level of the tag f) Utility-specific priority level (A or B) g) Date the tag was originally created h) Due date of the original work order i) Most recent date the work order was reworked or modified (if applicable) j) Due date of the work order after being reworked or modified (if applicable) k) Date the work order was completed & closed, if any. Note: tags in the work order are completed & closed by 11/8/23.	Aaron Louis	11/9/2023	11/28/2023	11/28/2023	https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_033-0004A010202F.pdf https://www.pge.com/content/dam/pge/docs/2023/11/28/2023-11-28-2023-DR_CaPAInvoiced_034-0001A0103.pdf	1	NA	8.1.7	Open Work Orders	NA	
491	CaPA	Sat WMP-34	CaPA_Sat_WMP-34	1	CaPA_Sat_WMP-34_01	The following questions pertain to PG&E's 2023-2025 WMP Revision 3, submitted on September 27, 2023: Page 1122 of your 2023 WMP R3 discusses the 2022 EPSS Reliability Study's Multiple Outage Review (MOR). a) How does the MOR program at 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198, 204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, 300, 306, 312, 318, 324, 330, 336, 342, 348, 354, 360, 366, 372, 378, 384, 390, 396, 402, 408, 414, 420, 426, 432, 438, 444, 450, 456, 462, 468, 474, 480, 486, 492, 498, 504, 510, 516, 522, 528, 534, 540, 546, 552, 558, 564, 570, 576, 582, 588, 594, 600, 606, 612, 618, 624, 630, 636, 642, 648, 654, 660, 666, 672, 678, 684, 690, 696, 702, 708, 714, 720, 726, 732, 738, 744, 750, 756, 762, 768, 774, 780, 786, 792, 798, 804, 810, 816, 822, 828, 834, 840, 846, 852, 858, 864, 870, 876, 882, 888, 894, 900, 906, 912, 918, 924, 930, 936, 942, 948, 954, 960, 966, 972, 978, 984, 990, 996, 1002, 1008, 1014, 1020, 1026, 1032, 1038, 1044, 1050, 1056, 1062, 1068, 1074, 1080, 1086, 1092, 1098, 1104, 1110, 1116, 1122, 1128, 1134, 1140, 1146, 1152, 1158, 1164, 1170, 1176, 1182, 1188, 1194, 1200, 1206, 1212, 1218, 1224, 1230, 1236, 1242, 1248, 1254, 1260, 1266, 1272, 1278, 1284, 1290, 1296, 1302, 1308, 1314, 1320, 1326, 1332, 1338, 1344, 1350, 1356, 1362, 1368, 1374, 1380, 1386, 1392, 1398, 1404, 1410, 1416, 1422, 1428, 1434, 1440, 1446, 1452, 1458, 1464, 1470, 1476, 1482, 1488, 1494, 1500, 1506, 1512, 1518, 1524, 1530, 1536, 1542, 1548, 1554, 1560, 1566, 1572, 1578, 1584, 1590, 1596, 1602, 1608, 1614, 1620, 1626, 1632, 1638, 1644, 1650, 1656, 1662, 1668, 1674, 1680, 1686, 1692, 1698, 1704, 1710, 1716, 1722, 1728, 1734, 1740, 1746, 1752, 1758, 1764, 1770, 1776, 1782, 1788, 1794, 1800, 1806, 1812, 1818, 1824, 1830, 1836, 1842, 1848, 1854, 1860, 1866, 1872, 1878, 1884, 1890, 1896, 1902, 1908, 1914, 1920, 1926, 1932, 1938, 1944, 1950, 1956, 1962, 1968, 1974, 1980, 1986, 1992, 1998, 2004, 2010, 2016, 2022, 2028, 2034, 2040, 2046, 2052, 2058, 2064, 2070, 2076, 2082, 2088, 2094, 2100, 2106, 2112, 2118, 2124, 2130, 2136, 2142, 2148, 2154, 2160, 2166, 2172, 2178, 2184, 2190, 2196, 2202, 2208, 2214, 2220, 2226, 2232, 2238, 2244, 2250, 2256, 2262, 2268, 2274, 2280, 2286, 2292, 2298, 2304, 2310, 2316, 2322, 2328, 2334, 2340, 2346, 2352, 2358, 2364, 2370, 2376, 2382, 2388, 2394, 2400, 2406, 2412, 2418, 2424, 2430, 2436, 2442, 2448, 2454, 2460, 2466, 2472, 2478, 2484, 2490, 2496, 2502, 2508, 2514, 2520, 2526, 2532, 2538, 2544, 2550, 2556, 2562, 2568, 2574, 2580, 2586, 2592, 2598, 2604, 2610, 2616, 2622, 2628, 2634, 2640, 2646, 2652, 2658, 2664, 2670, 2676, 2682, 2688, 2694, 2700, 2706, 2712, 2718, 2724, 2730, 2736, 2742, 2748, 2754, 2760, 2766, 2772, 2778, 2784, 2790, 2796, 2802, 2808, 2814, 2820, 2826, 2832, 2838, 2844, 2850, 2856, 2862, 2868, 2874, 2880, 2886, 2892, 2898, 2904, 2910, 2916, 2922, 2928, 2934, 2940, 2946, 2952, 2958, 2964, 2970, 2976, 2982, 2988, 2994, 3000, 3006, 3012, 3018, 3024, 3030, 3036, 3042, 3048, 3054, 3060, 3066, 3072, 3078, 3084, 3090, 3096, 3102, 3108, 3114, 3120, 3126, 3132, 3138, 3144, 3150, 3156, 3162, 3168, 3174, 3180, 3186, 3192, 3198, 3204, 3210, 3216, 3222, 3228, 3234, 3240, 3246, 3252, 3258, 3264, 3270, 3276, 3282, 3288, 3294, 3300, 3306, 3312, 3318, 3324, 3330, 3336, 3342, 3348, 3354, 3360, 3366, 3372, 3378, 3384, 3390, 3396, 3402, 3408, 3414, 3420, 3426, 3432, 3438, 3444, 3450, 3456, 3462, 3468, 3474, 3480, 3486, 3492, 3498, 3504, 3510, 3516, 3522, 3528, 3534, 3540, 3546, 3552, 3558, 3564, 3570, 3576, 3582, 3588, 3594, 3600, 3606, 3612, 3618, 3624, 3630, 3636, 3642, 3648, 3654, 3660, 3666, 3672, 3678, 3684, 3690, 3696, 3702, 3708, 3714, 3720, 3726, 3732, 3738, 3744, 3750, 3756, 3762, 3768, 3774, 3780, 3786, 3792, 3798, 3804, 3810, 3816, 3822, 3828, 3834, 3840, 3846, 3852, 3858, 3864, 3870, 3876, 3882, 3888, 3894, 3900, 3906, 3912, 3918, 3924, 3930, 3936, 3942, 3948, 3954, 3960, 3966, 3972, 3978, 3984, 3990, 3996, 4002, 4008, 4014, 4020, 4026, 4032, 4038, 4044, 4050, 4056, 4062, 4068, 4074, 4080, 4086, 4092, 4098, 4104, 4110, 4116, 4122, 4128, 4134, 4140, 4146, 4152, 4158, 4164, 4170, 4176, 4182, 4188, 4194, 4200, 4206, 4212, 4218, 4224, 4230, 4236, 4242, 4248, 4254, 4260, 4266, 4272, 4278, 4284, 4290, 4296, 4302, 4308, 4314, 4320, 4326, 4332, 4338, 4344, 4350, 4356, 4362, 4368, 4374, 4380, 4386, 4392, 4398, 4404, 4410, 4416, 4422, 4428, 4434, 4440, 4446, 4452, 4458, 4464, 4470, 4476, 4482, 4488, 4494, 4500, 4506, 4512, 4518, 4524, 4530, 4536, 4542, 4548, 4554, 4560, 4566, 4572, 4578, 4584, 4590, 4596, 4602, 4608, 4614, 4620, 4626, 4632, 4638, 4644, 4650, 4656, 4662, 4668, 4674, 4680, 4686, 4692, 4698, 4704, 4710, 4716, 4722, 4728, 4734, 4740, 4746, 4752, 4758, 4764, 4770, 4776, 4782, 4788, 4794, 4800, 4806, 4812, 4818, 4824, 4830, 4836, 4842, 4848, 4854, 4860, 4866, 4872, 4878, 4884, 4890, 4896, 4902, 4908, 4914, 4920, 4926, 4932, 4938, 4944, 4950, 4956, 4962, 4968, 4974, 4980, 4986, 4992, 4998, 5004, 5010, 5016, 5022, 5028, 5034, 5040, 5046, 5052, 5058, 5064, 5070, 5076, 5082, 5088, 5094, 5100, 5106, 5112, 5118, 5124, 5130, 5136, 5142, 5148, 5154, 5160, 5166, 5172, 5178, 5184, 5190, 5196, 5202, 5208, 5214, 5220, 5226, 5232, 5238, 5244, 5250, 5256, 5262, 5268, 5274, 5280, 5286, 5292, 5298, 5304, 5310, 5316, 5322, 5328, 5334, 5340, 5346, 5352, 5358, 5364, 5370, 5376, 5382, 5388, 5394, 5400, 5406, 5412, 5418, 5424, 5430, 5436, 5442, 5448, 5454, 5460, 5466, 5472, 5478, 5484, 5490, 5496, 5502, 5508, 5514, 5520, 5526, 5532, 5538, 5544, 5550, 5556, 5562, 5568, 5574, 5580, 5586, 5592, 5598, 5604, 5610, 5616, 5622, 5628, 5634, 5640, 5646, 5652, 5658, 5664, 5670, 5676, 5682, 5688, 5694, 5700, 5706, 5712, 5718, 5724, 5730, 5736, 5742, 5748, 5754, 5760, 5766, 5772, 5778, 5784, 5790, 5796, 5802, 5808, 5814, 5820, 5826, 5832, 5838, 5844, 5850, 5856, 5862, 5868, 5874, 5880, 5886, 5892, 5898, 5904, 5910, 5916, 5922, 5928, 5934, 5940, 5946, 5952, 5958, 5964, 5970, 5976, 5982, 5988, 5994, 6000, 6006, 6012, 6018, 6024, 6030, 6036, 6042, 6048, 6054, 6060, 6066, 6072, 6078, 6084, 6090, 6096, 6102, 6108, 6114, 6120, 6126, 6132, 6138, 6144, 6150, 6156, 6162, 6168, 6174, 6180, 6186, 6192, 6198, 6204, 6210, 6216, 6222, 6228, 6234, 6240, 6246, 6252, 6258, 6264, 6270, 6276, 6282, 6288, 6294, 6300, 6306, 6312, 6318, 6324, 6330, 6336, 6342, 6348, 6354, 6360, 6366, 6372, 6378, 6384, 6390, 6396, 6402, 6408, 6414, 6420, 6426, 6432, 6438, 6444, 6450, 6456, 6462, 6468, 6474, 6480, 6486, 6492, 6498, 6504, 6510, 6516, 6522, 6528, 6534, 6540, 6546, 6552, 6558, 6564, 6570, 6576, 6582, 6588, 6594, 6600, 6606, 6612, 6618, 6624, 6630, 6636, 6642, 6648, 6654, 6660, 6666, 6672, 6678, 6684, 6690, 6696, 6702, 6708, 6714, 6720, 6726, 6732, 6738, 6744, 6750, 6756, 6762, 6768, 6774, 6780, 6786, 6792, 6798, 6804, 6810, 6816, 6822, 6828, 6834, 6840, 6846, 6852, 6858, 6864, 6870, 6876, 6882, 6888, 6894, 6900, 6906, 6912, 6918, 6924, 6930, 6936, 6942, 6948, 6954, 6960, 6966, 6972, 6978, 6984, 6990, 6996, 7002, 7008, 7014, 7020, 7026, 7032, 7038, 7044, 7050, 7056, 7062, 7068, 7074, 7080, 7086, 7092, 7098, 7104, 7110, 7116, 7122, 7128, 7134, 7140, 7146, 7152, 7158, 7164, 7170, 7176, 7182, 7188, 7194, 7200, 7206, 7212, 7218, 7224, 7230, 7236, 7242, 7248, 7254, 7260, 7266, 7272, 7278, 7284, 7290, 7296, 7302, 7308, 7314, 7320, 7326, 7332, 7338, 7344, 7350, 7356, 7362, 7368, 7374, 7380, 7386, 7392, 7398, 7404, 7410, 7416, 7422, 7428, 7434, 7440, 7446, 7452, 7458, 7464, 7470, 7476, 7482, 7488, 7494, 7500, 7506, 7512, 7518, 7524, 7530, 7536, 7542, 7548, 7554, 7560, 7566, 7572, 7578, 7584, 7590, 7596, 7602, 7608, 7614, 7620, 7626, 7632, 7638, 7644, 7650, 7656, 7662, 7668, 7674, 7680, 7686, 7692, 7698, 7704, 7710, 7716, 7722, 7728, 7734, 7740, 7746, 7752, 7758, 7764, 7770, 7776, 7782, 7788, 7794, 7800, 7806, 7812, 7818, 7824, 7830, 7836, 7842, 7848, 7854, 7860, 7866, 7872, 7878, 7884, 7890, 7896, 7902, 7908, 7914, 7920, 7926, 7932, 7938, 7944, 7950, 7956, 7962, 7968, 7974, 7980, 7986, 7992, 7998, 8004, 8010, 8016, 8022, 8028, 8034, 8040, 8046, 8052, 8058, 8064, 8070, 8076, 8082, 8088, 8094, 8100, 8106, 8112, 8118, 8124, 8130, 8136, 8142, 8148, 8154, 8160, 8166, 8172, 8178, 8184, 8190, 8196, 8202, 8208, 8214, 8220, 8226, 8232, 8238, 8244, 8250, 8256, 8262, 8268, 8274, 8280, 8286, 8292, 8298, 8304, 8310, 8316, 8322, 8328, 8334, 8340, 8346, 8352, 8358, 8364, 8370, 8376, 8382, 8388, 8394, 8400, 8406, 8412, 8418, 8424, 8430, 8436, 8442, 8448, 8454, 8460, 8466, 8472, 8478, 8484, 8490, 8496, 8502, 8508, 8514, 8520, 8526, 8532, 8538, 8544, 8550, 8556, 8562, 8568, 8574, 8580, 8586, 8592, 8598, 8604, 8610, 8616, 8622, 8628, 8634, 8640, 8646, 8652, 8658, 8664, 8670, 8676, 8682, 8688, 8694, 8700, 8706, 8712, 8718, 8724											

496	CAIPA	Set WMP-34	CaPA_Set WMP-34	6	CaPA_Set WMP-34_Q6	<p>Please attach the data presented in question 5 into performance quartiles based on SAGI and SAFI. (An example table is included below the question's subpart.)</p> <p>a) Of the distribution circuits listed in response to Question 5, identify, in Excel spreadsheet format, the best performing (i.e., circuits experiencing the least number of sustained outages) 25% circuits by average combined SAGI for years 2017 to 2019 in each of your divisions.</p> <p>b) Of the distribution circuits listed in response to Question 5, identify, in Excel spreadsheet format, the worst performing (i.e., circuits experiencing the most sustained outages) 25% circuits by average combined SAGI for years 2017 to 2019 in each of your divisions.</p> <p>c) Of the distribution circuits listed in response to Question 5, identify, in Excel spreadsheet format, the best performing SAGI (i.e., circuits experiencing the lowest duration of sustained outages) 25% circuits by average combined SAFI for years 2017 to 2019 in each of your divisions.</p> <p>d) Of the distribution circuits listed in response to Question 5, identify, in Excel spreadsheet format, the worst performing SAFI (i.e., circuits experiencing the longest duration of sustained outages) 25% circuits by average combined SAFI for years 2017 to 2019 in each of your divisions.</p> <p>Example Table: Question 6, Part a)</p> <p>Division</p> <p>Circuit Name</p> <p>Average SAGI 2017-2019</p> <p>Los Palms</p> <p>Sat Peninsula 1101</p> <p>1,080</p> <p>Los Palms</p> <p>Los Angeles 1102</p> <p>1,071</p> <p>North Valley</p> <p>Decorators 1103</p> <p>1,038</p>	<p>Please see "WMP-Discovery2023-2025_DR_CalAdvocates_034-0054061401.xlsx" for sub-parts a-d.</p>	Justin Hegler	12/12/2023	1/22/2024	1/22/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-0054061401	0	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
497	CAIPA	Set WMP-34	CaPA_Set WMP-34	7	CaPA_Set WMP-34_Q7	<p>Provide an Excel table that lists (as rows) each sustained outage that occurred from January 1, 2017 through December 31, 2022 on any of the circuits identified in your response to Question 6. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID</p> <p>b) Circuit Name</p> <p>c) Circuit ID</p> <p>d) Was EPSS enabled on this circuit at the time of the outage?</p> <p>e) PNL (Post No Light)</p> <p>f) Change End Date & Time</p> <p>g) CESD (Count of Customers Experiencing Sustained Outages)</p> <p>h) Customer Mitigation</p> <p>i) Cause (if known)</p> <p>ii) Was the circuit scheduled in response to the memorandum?</p>	<p>I sustained outages with information for a-e, and g-i are provided in "WMP-Discovery2023-2025_DR_CalAdvocates_034-00740401.xlsx". The information of when the circuit was first made EPSS capable is provided in "WMP-Discovery2023-2025_DR_CalAdvocates_034-001740401.xlsx".</p>	Justin Hegler	12/12/2023	1/22/2024	1/22/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-00740401	2	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
498	CAIPA	Set WMP-34	CaPA_Set WMP-34	8	CaPA_Set WMP-34_Q8	<p>Provide an Excel table that lists (as rows) each intermittent outage that occurred from January 1, 2017 through December 31, 2022 on any of the circuits identified in your response to Question 6. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID</p> <p>b) Circuit Name</p> <p>c) Circuit ID</p> <p>d) Was EPSS enabled on this circuit at the time of the outage?</p> <p>e) PNL (Post No Light)</p> <p>f) Change End Date & Time</p> <p>g) CESD (Count of Customers Experiencing Sustained Outages)</p> <p>h) Customer Mitigation</p> <p>i) Cause (if known)</p> <p>ii) Was the circuit scheduled in response to the memorandum?</p>	<p>All intermittent outages with information for a-e, and g-i are provided in "WMP-Discovery2023-2025_DR_CalAdvocates_034-00840101.xlsx". The information of when the circuit was first made EPSS capable is provided in "WMP-Discovery2023-2025_DR_CalAdvocates_034-000740401.xlsx".</p>	Justin Hegler	12/12/2023	1/22/2024	1/22/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-00840101	1	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
499	CAIPA	Set WMP-34	CaPA_Set WMP-34	9	CaPA_Set WMP-34_Q9	<p>Regarding PGE's 2021 Reliability Report, PGE stated "Base reliability projects have been initiated on Garberville 1101 circuit to minimize the impacts of EPSS... and taking a more surgical approach in applying EPSS settings when the circuit is most at risk?"</p> <p>However, PGE did not report an EPSS outage for Garberville 1101 in 2021. PGE's first reported outage on Garberville 1101 was on July 24, 2022, which was after the 2021 Reliability Report was published. Please explain this discrepancy.</p>	<p>We confirm the Garberville 1101 had no 2021 outages categorized as EPSS outages as reported in PGE's January Monthly Report.</p> <p>The proposed base reliability project (PGE 2021 Annual Electric Distribution Reliability Report 2021).</p> <p>One Saver installation is listed in PGE's Annual Electric Distribution Reliability Report 2021.</p> <p>One Saver installation was published following the 2021 EPSS pilot effort, and informed by savings from the pilot, were identified as a proactive strategy to both minimize wildfire risk and also providing reliability improvement benefits under EPSS installation.</p>	Justin Hegler	12/12/2023	1/18/2024	1/18/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-00940101	0	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
500	CAIPA	Set WMP-34	CaPA_Set WMP-34	10	CaPA_Set WMP-34_Q10	<p>Regarding PGE's 2021 Reliability Report, PGE stated "Base reliability projects have been initiated on Otter 1102 circuit to minimize the impacts of EPSS... and taking a more surgical approach in applying EPSS settings when the circuit is most at risk?"</p> <p>However, PGE did not report an EPSS outage for Otter 1102 in 2021. PGE's first reported outage on Otter 1102 was on August 18, 2022, which was after the 2021 Reliability Report was published. Please explain this discrepancy.</p>	<p>We confirm Otter 1102 had no 2021 outages categorized as EPSS outages as reported in PGE's January Monthly Report.</p> <p>The proposed base reliability project (PGE Saver installation) as listed in PGE's Annual Electric Distribution Reliability Report 2021.</p> <p>The only Saver installation for the 2021 EPSS pilot effort and informed by savings from the pilot, were identified as a proactive strategy to both minimize wildfire risk and also providing reliability improvement benefits under EPSS installation.</p>	Justin Hegler	12/12/2023	1/18/2024	1/18/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-01040101	0	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
501	CAIPA	Set WMP-34	CaPA_Set WMP-34	11	CaPA_Set WMP-34_Q11	<p>PGE's November 2023 EPSS Monthly report, PGE reports that there have been 28 outages on EPSS-protected Transmission lines (7 EPSS outages in the year to date).</p> <p>a) Are there downstream outages (i.e., to distribution customers that may be served from a substation that may be fed by the transmission line) that resulted from outages that occur on EPSS-protected transmission lines?</p> <p>b) Did any of the reported 7-EPSS outages in 2023 cause downstream impacts to other transmission or distribution customers?</p> <p>c) If the answer to part (b) is yes, please describe the extent of the downstream impacts.</p> <p>d) If the answer to part (b) is yes, are those downstream outages reported as EPSS outages in PGE's monthly EPSS reports or in any other reporting system?</p> <p>e) If the answer to part (b) is yes, why did PGE not have a checklist or contingency transmission circuit(s) in place to avoid downstream distribution outages?</p>	<p>Yes, a Distribution outage that occurred as a result of an outage on an EPSS-protected Transmission line.</p> <p>The 7 EPSS outages reported in the EPSS Monthly Report represent the outages on Distribution lines that resulted from outages on Transmission lines while EPSS settings were implemented.</p> <p>If PGE sees responses (a) above:</p> <p>a) Transmission EPSS settings are only enabled on radial transmission lines to reduce impacts on the bulk electrical system. By design, these transmission lines serve as the only normal source for the substations they feed and as such, distribution circuits will be de-energized if an outage is experienced on the transmission circuit. This would be true even if there is an outage on those transmission circuits.</p>	Justin Hegler	12/12/2023	1/18/2024	1/18/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-01140101	0	N/A	8.1.8.1.1	Grid Operators and Procedures	Protective Equipment and Device Settings
502	CAIPA	Set WMP-35	CaPA_Set WMP-35	1	CaPA_Set WMP-35_Q1	<p>In Table 3-2 of PGE's 2023-2025 WMP, PGE indicates that system hardening is planned for certain frequency-dependent circuits. Please update Table 3-2 by providing the identified completion year and quarter for each of the region's circuits. (Marked items, or planned to be taken, to reduce the need for and impact of future PSPS or CIP) (If the timetable for completion is uncertain/unfirmed, please so state).</p>	<p>Please see attached "WMP-Discovery2023-2025_DR_CalAdvocates_034-00040101.xlsx" for an updated Table 3-2 as of 12/22/2023. The updated Table 3-2 of PGE's 2023-2025 WMP is in columns 5 to 6 and includes the following information: 4- identified transmission circuit hardening items; 5- planned to be taken; 6- taken; 7- Need for and impact of future PSPS or CIP. A note that has been appended is identified by red text.</p> <p>Additional information regarding the completion of each of the region's circuits is provided in the updated Table 3-2, however, was part of PGE's G&I System Hardening work.</p> <p>The attached correspondence with the content of Table 3-2 under the region 008-003 of our 2023-2025 WMP. (Please let us know if you would also like the requested information for the second version of Table 3-2 that starts on page 1509 of our 2023-2025 WMP.)</p>	Franky Leo	3/17/2024	2/23/2024	2/23/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=034-00040101	1	N/A	8.1.2	Identification of Frequently De-Energized Circuits	N/A
503	CAIPA	Set WMP-36	CaPA_Set WMP-36	1	CaPA_Set WMP-36_Q1	<p>PGE provided the following table in the response to CalAdvocates' PGE-2023WMP-08 question 5:</p> <p>Please provide an updated table showing actual values for 2023 and forecast values for 2024, with the EVM transitioned program disaggregated into the three initiatives described in PGE's response to CalAdvocates' PGE-2023WMP-08_Q5:</p> <p>1. Tree Removal Inventory</p> <p>2. Forested Tree Inspections</p> <p>3. WMP Operational Mitigations</p>	<p>Please see the updated table below for the requested information.</p> <p>2023 Actual (\$1,000)</p> <p>2024 Forecast (\$1,000)</p> <p>Positive EVM 446,854,325</p> <p>Saward Patrol \$125,148,598,112</p> <p>WMP-Discovery2023-2025_DR_CalAdvocates_038-0001</p> <p>VC (Pine Clearing) \$22,829,524,353</p> <p>Tree Removal Inventory \$34,841,823,153</p> <p>WMP for Operational Mitigations \$13,290,222,872</p> <p>Forecast Tree Inspections in AOC</p> <p>\$17,275,581,342</p> <p>Total \$1,002,582,044</p>	Franky Leo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=038-0001	0	N/A	N/A	Vegetation Management	N/A
504	CAIPA	Set WMP-36	CaPA_Set WMP-36	2	CaPA_Set WMP-36_Q2	<p>Please disaggregate the data in Table 11 of PGE's 2023 Q4 QDR such that there is only one Utility Initiative Tracking ID for each one. If this is not possible, please explain why and clarify the methodology for grouping certain tracking IDs.</p>	<p>Please refer to the upcoming 2023 WMP Annual Report on Compliance (ARC) that PGE is filing with the Office of Energy Infrastructure Safety on April 1, 2024. We will provide Cal Advocates a copy of this document once it is finalized and filed with the Office of Energy Safety.</p> <p>The 2023 WMP-ARC provides 2023 actual expenditure and planned budget by Utility Initiative. Tracking ID is the next in the Utility Tracking ID as we use the budget and objectives that PGE has outlined in 2023-2025 WMP and is subject to the cost requirements that PGE has made to mitigate wildfire. Please note that our 2023 Q4 QDR, Table 11, includes what we consider to be a more complete view of our wildfire prevention and management investments.</p> <p>Furthermore, some targets and objectives have opportunities that are limited to Provider Cost Centers (PCCs), which are the costs associated with the departments or groups that provide services to the greater company. The cost of these services is allocated across multiple workstreams and are typically charged to provider cost centers that are aligned to specific WMP initiatives. For example, an engineering team may be responsible for evaluating and comparing various on-demand technologies for potential use across the company. One of the technologies they evaluate may contribute to an objective set forth in the WMP. However, the time that spends on this specific evaluation, an objective to all the other evaluations they conduct, is not tracked as a discrete cost center in the WMP-ARC.</p>	Franky Leo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=036-0002	0	N/A	QDR	N/A	N/A
504	CAIPA	Set WMP-36	CaPA_Set WMP-36	204	CaPA_Set WMP-36_Q204	<p>Please disaggregate the data in Table 11 of PGE's 2023 Q4 QDR such that there is only one Utility Initiative Tracking ID for each one. If this is not possible, please explain why and clarify the methodology for grouping certain tracking IDs.</p>	<p>Please refer to the upcoming 2023 WMP Annual Report on Compliance (ARC) that PGE is filing with the Office of Energy Infrastructure Safety on April 1, 2024. We will provide Cal Advocates a copy of this document once it is finalized and filed with the Office of Energy Safety.</p> <p>The 2023 WMP-ARC provides 2023 actual expenditure and planned budget by Utility Initiative. Tracking ID is the next in the Utility Tracking ID as we use the budget and objectives that PGE has outlined in 2023-2025 WMP and is subject to the cost requirements that PGE has made to mitigate wildfire. Please note that our 2023 Q4 QDR, Table 11, includes what we consider to be a more complete view of our wildfire prevention and management investments.</p> <p>Furthermore, some targets and objectives have opportunities that are limited to Provider Cost Centers (PCCs), which are the costs associated with the departments or groups that provide services to the greater company. The cost of these services is allocated across multiple workstreams and are typically charged to provider cost centers that are aligned to specific WMP initiatives. For example, an engineering team may be responsible for evaluating and comparing various on-demand technologies for potential use across the company. One of the technologies they evaluate may contribute to an objective set forth in the WMP. However, the time that spends on this specific evaluation, an objective to all the other evaluations they conduct, is not tracked as a discrete cost center in the WMP-ARC.</p>	Franky Leo	3/8/2024	4/30/2024	4/30/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=036-0204	2	N/A	QDR	N/A	N/A
505	CAIPA	Set WMP-36	CaPA_Set WMP-36	3	CaPA_Set WMP-36_Q3	<p>Table 8 of PGE's 2023 Q4 QDR does not reflect the planned or actual net addition or removal values reported in Table 8.</p> <p>Please explain this discrepancy.</p> <p>Is Table 7 or Table 8 correct?</p>	<p>The data used in Table 7 is extracted from PGE's GIS systems, and other critical information. The data in PGE's GIS systems are also utilized for the submission of the Spatial Quarterly Data Report. Per the Data Guidelines, Table 7 breaks down utility equipment and customer records across multiple service area designations. Table 8 provides a summary of projected and actual additions or removals of equipment in their summary across service area designations. PGE will incorporate the calculation for Q4 2023 metrics into the difference between Q4 2023 and Q4 2022. The data in Table 8 is calculated based on the difference between Q4 2023 and Q4 2022. Table 7 and Table 8 are both accurate, and Table 8 is formatually derived from Table 7.</p>	Franky Leo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=036-0003	0	N/A	QDR	N/A	N/A
506	CAIPA	Set WMP-36	CaPA_Set WMP-36	4	CaPA_Set WMP-36_Q4	<p>For our 2023 QDR submissions, the term "utility infrastructure upgrades" included the following categories: 1) System Hardening, 2) System Reliability, 3) System Modernization, 4) System Expansion, and 5) System Replacement. Additional details about this work can be found in WMP submission 03471, System Hardening, in Section 8.2.2.2 of our 2023-2025 WMP (page 206-209).</p> <p>The 4 categories above were a mathematical error. Upon review of the submission and associated methods used to report the data reported in Table 5, we recognized the error and corrected the error. The error was identified in the following table:</p> <p>Misses Performed for Subpart:</p> <p>Please see the updated Table 5 below, with the corrections incorporated into the Table 5 template. This data included below is the cumulative, year-to-date System Hardening miss completed by quarter based on QDR1 WMP target commitments. PGE will submit a corrected QDR1 to report SAFI's QDR1 audit.</p>	<p>All the data used in Table 7 is extracted from PGE's GIS systems, and other critical information. The data in PGE's GIS systems are also utilized for the submission of the Spatial Quarterly Data Report. Per the Data Guidelines, Table 7 breaks down utility equipment and customer records across multiple service area designations. Table 8 provides a summary of projected and actual additions or removals of equipment in their summary across service area designations. PGE will incorporate the calculation for Q4 2023 metrics into the difference between Q4 2023 and Q4 2022. The data in Table 8 is calculated based on the difference between Q4 2023 and Q4 2022. Table 7 and Table 8 are both accurate, and Table 8 is formatually derived from Table 7.</p>	Franky Leo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/energy/who-we-are/our-values/our-values.aspx?cid=036-0004	0	N/A	QDR	N/A	N/A

507	CaPA	Set WMP-40	CaPA_Set WMP-40	1	CaPA_Set WMP-40_01	<p>PG&E states on page 23 of its 2025 WMP Update regarding its workplan for undergrounding and covered conductor projects:</p> <p>PG&E is currently refining our workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the disconnection of the 2023-2024 WMP. We continue the approach described in the Base 2023-2025 WMP of intentionally building additional miles into the workplan to account for unforeseen delays to related projects such as property owners, weather, permitting, but rights acquisition, materials, or other constraints. Thus, some of the projects included in this workplan may not be completed in the 2023-2025 timeframes. Generally, PG&E will continue working on these projects until they can be completed. Finally, additional projects may be identified and added to the workplan going forward to prevent completion between 2023 and 2025.</p> <p>Please identify PG&E's intended cost recovery venue for the abovementioned undergrounding projects not completed in the 2023-2025 timeframes.</p> <p>Please identify PG&E's intended cost recovery venue for the abovementioned overhead hardening projects not completed in the 2023-2025 timeframes.</p> <p>Please identify PG&E's intended cost recovery venue for the abovementioned "additional projects" that may be identified and added to the workplan.</p>	<p>a. The cost recovery venue for undergrounding projects depends on the year in which the project becomes operational (i.e., as described). Any undergrounding project made operational in 2023-2026 will be recovered through PG&E's 2023 General Rate Case (GRC) via the WRMIA Mitigation Balance Account (WMA). PG&E plans to submit its SB 884 10-Year Undergrounding Plan with a currently anticipated program launch date of January 1, 2027 and proposes that any undergrounding project that is operational on or after January 1, 2027 would be recovered through PG&E's SB 884 10-Year Undergrounding Plan.</p> <p>While PG&E intends to launch the SB 884 Undergrounding Program in 2027, PG&E is currently awaiting the SB 884 10-Year Plan guidelines from Energy Safety. Based on the review timeline of the legislation (i.e., nine-month review by Energy Safety, six months for electric utilities to submit to the GRC, and nine-month review by CPUC), final guidelines are issued mid-year 2024. The earliest we could expect to receive the SB 884 10-Year Plan is early 2025. Thus, PG&E anticipates our Plan period would begin in 2025. Our SB 884 Plan would begin to be allocated in 2027. The amount included in 2024 for cost recovery would be in the 2025 GRC. PG&E anticipates our Plan and cost recovery without requiring significant changes to our current program.</p> <p>Furthermore, given the typical undergrounding project lifecycle of approximately six to eight years, all projects in 2027 will require program funding in the 2025 GRC in 2025 and 2026. Thus, PG&E would begin requiring costs in 2025 and 2026 for projects that become operational during the SB 884 Plan period of 2027 and beyond. PG&E's cost recovery application will include these costs for real-time work for projects that become operational during the SB 884 Plan period.</p> <p>b. Any overhead hardening projects not fully completed in the 2023-2026 GRC timeframes will continue to be recovered through PG&E's next GRC period via the WMA.</p> <p>c. Please see the responses to subparts (a) and (b) for the requested information.</p>	Mixa Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	8.1.2	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment	
508	CaPA	Set WMP-40	CaPA_Set WMP-40	2	CaPA_Set WMP-40_02	<p>PG&E states on page 23 of its 2025 WMP Update regarding its workplan for undergrounding projects:</p> <p>PG&E is currently refining our workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the disconnection of the 2023-2024 WMP. We continue the approach described in the Base 2023-2025 WMP of intentionally building additional miles into the workplan to account for unforeseen delays to related projects such as property owners, weather, permitting, but rights acquisition, materials, or other constraints. Thus, some of the projects included in this workplan may not be completed in the 2023-2025 timeframes. Generally, PG&E will continue working on these projects until they can be completed. Finally, additional projects may be identified and added to the workplan going forward to prevent completion between 2023 and 2025.</p> <p>With respect to undergrounding projects specifically:</p> <p>a) In 2023-2025 WMP, PG&E's annual risk reduction target is to achieve by undergrounding in the 2023-2025 WMP period as a whole, does PG&E currently expect to fall short of, meet, or exceed the risk reduction target established in the GRC period?</p> <p>b) How does your answer to part (a) compare to the risk reduction target established in D-23-11-0897?</p> <p>c) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2025 due to undergrounding projects?</p> <p>d) How does your answer to part (c) compare to the risk reduction target established in D-23-11-0897?</p> <p>e) Does PG&E anticipate completing additional undergrounding mileage in 2023-2025 beyond the GRC-established 170 covered conductor miles?</p> <p>f) If yes, please state the number of miles and PG&E's intended cost recovery venue for said miles.</p>	<p>a. PG&E intends to meet the cumulative system hardening risk reduction requirement of 18% by 2025, using the risk reduction methodology described in Advice Letter 7150-E-A.</p> <p>b. Based on the workplan as of February 22, 2024, and using the GRC risk reduction methodology described in Advice Letter 7150-E-A, the 2024 targeted annual risk reduction for undergrounding projects is currently forecasted to be approximately 8.1%.</p> <p>c. Using the WMP risk reduction method (risk reduction based on WDRM % only), the targeted annual risk reduction for undergrounding projects currently forecasted for completion in 2024 is approximately 1.5%.</p> <p>d. While these values only include projects in Maintenance Activity Type (MAT) codes WRM and 34.0, Annual risk reduction forecasts established in D-23-11-0897 are cumulative for the GRC period (2023-2026). Risk reduction forecasts for specific mitigation types were not established. The response to subpart (d) includes the undergrounding contribution to the GRC System Hardening cumulative risk reduction target as follows:</p> <p>System Hardening GRC Risk Reduction Target: 18% (GRC 2023-2026, DP 23)</p> <p>System Hardening GRC Risk Reduction Target: 18% (GRC 2023-2026, DP 23)</p> <p>Overall Target: 18%</p> <p>2023-2026 Cumulative Risk Reduction Target: 2% (5% 10% 18% 18%)</p> <p>For all system hardening work, including overhead covered conductor, underground and line removal, the 2024 cumulative risk reduction target established in D-23-11-0897 is 5% for 2023-2024. Based on the system hardening workplan as of February 22, 2024 and using the GRC risk reduction methodology described in Advice Letter 7150-E-A, PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>e. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>f. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p>	Mixa Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	8	8.1.2.2	Section 8.1.2 - Grid Design and System Hardening	8.1.2.2 Undergrounding of electric lines and/or equipment
509	CaPA	Set WMP-40	CaPA_Set WMP-40	3	CaPA_Set WMP-40_03	<p>PG&E states on page 23 of its 2025 WMP Update regarding its workplan for overhead conductor projects:</p> <p>PG&E is currently refining our workplans for both overhead hardening and undergrounding projects through the end of the GRC period (2026) to account for the disconnection of the 2023-2024 WMP. We continue the approach described in the Base 2023-2025 WMP of intentionally building additional miles into the workplan to account for unforeseen delays to related projects such as property owners, weather, permitting, but rights acquisition, materials, or other constraints. Thus, some of the projects included in this workplan may not be completed in the 2023-2025 timeframes. Generally, PG&E will continue working on these projects until they can be completed. Finally, additional projects may be identified and added to the workplan going forward to prevent completion between 2023 and 2025.</p> <p>With respect to covered conductor projects specifically:</p> <p>a) In 2023-2025 WMP, PG&E's annual risk reduction target is to achieve by installing covered conductors in the 2023-2025 WMP period as a whole, does PG&E currently expect to fall short of, meet, or exceed the risk reduction target established in the GRC period?</p> <p>b) How does your answer to part (a) compare to the risk reduction target established in D-23-11-0897?</p> <p>c) According to PG&E's current workplan, what is the amount of risk reduction that PG&E expects to achieve in 2025 due to covered conductor projects?</p> <p>d) How does your answer to part (c) compare to the risk reduction target established in D-23-11-0897?</p> <p>e) Does PG&E anticipate completing additional covered conductor mileage in 2023-2025 beyond the GRC-established 170 covered conductor miles?</p> <p>f) If yes, please state the number of miles and PG&E's intended cost recovery venue for said miles.</p>	<p>a. PG&E intends to meet the cumulative system hardening risk reduction requirement of 18% by 2025, using the risk reduction methodology described in Advice Letter 7150-E-A.</p> <p>b. Based on the workplan as of February 22, 2024 and advancing the GRC risk reduction methodology described in Advice Letter 7150-E-A, the 2024 target informal risk reduction for overhead hardening projects is currently forecasted to be approximately 6.0%.</p> <p>c. Using the WMP risk reduction method (risk reduction based on WDRM % only), the targeted informal risk reduction for overhead hardening projects currently forecasted for completion in 2024 is approximately 0.7%.</p> <p>d. While these values only include projects in Maintenance Activity Type (MAT) codes WRM and 34.0, Annual risk reduction forecasts established in D-23-11-0897 are cumulative for the GRC period (2023-2026). Risk reduction forecasts for specific mitigation types were not established. The response to subpart (d) includes the overhead hardening contribution to the GRC System Hardening cumulative risk reduction target as follows:</p> <p>System Hardening GRC Risk Reduction Target: 18% (GRC 2023-2026, DP 23)</p> <p>System Hardening GRC Risk Reduction Target: 18% (GRC 2023-2026, DP 23)</p> <p>Overall Target: 18%</p> <p>2023-2026 Cumulative Risk Reduction Target: 2% (5% 10% 18% 18%)</p> <p>For all system hardening work, including overhead covered conductor, underground and line removal, the 2024 cumulative risk reduction target established in D-23-11-0897 is 5% for 2023-2024. Based on the system hardening workplan as of February 22, 2024 and using the GRC risk reduction methodology described in Advice Letter 7150-E-A, PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>e. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>f. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p>	Mixa Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	8	8.1.2.1	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1 Covered Conductor Installation - Distribution
510	CaPA	Set WMP-40	CaPA_Set WMP-40	4	CaPA_Set WMP-40_04	<p>PG&E states on page 23 of its 2025 WMP Update. "PG&E proposes to add a 2025 target (System Hardening - Transmission Conductor Segment Replacement (DH11)) to perform conductor segment replacement on two transmission lines."</p> <p>What the above-mentioned work requested and authorized in PG&E's Year 2023 GRC?</p> <p>If it is, please provide the subpart and page number in PG&E's Year 2023 GRC history that discusses this work, as well as the relevant Major Activity Type (MAT) code or codes.</p> <p>If it is, please provide the total authorized funding amount for this program as set forth in D-23-11-0897, with a reference to the relevant page of that document.</p>	<p>a. No. System Hardening - Transmission Conductor Segment Replacement was not requested or authorized in the 2023 General Rate Case (GRC).</p> <p>b. No applicable, please see the response to subpart (a).</p> <p>c. No applicable, please see the response to subpart (a).</p>	Mixa Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	8	8.1.2.1	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1 Traditional Overhead Hardening - Transmission Conductor
511	CaPA	Set WMP-40	CaPA_Set WMP-40	5	CaPA_Set WMP-40_05	<p>PG&E states on page 31 of its 2025 WMP update that it is introducing a new evolution of its WRMIA Distribution Risk Model (WRM), called WDRM v4. What the output from the WDRM v4 are expected to inform some risk-prioritized, short-cycle work in 2025 and other risk-prioritized long-cycle work in 2026 and beyond?</p> <p>Please identify each WMP initiative for which WDRM v4 is expected to "inform risk-prioritized short-cycle work in 2025 and beyond."</p> <p>If for undergrounding projects:</p> <p>a) When does WDRM v4 begin to inform the scoping and execution of undergrounding projects in 2025 and beyond?</p> <p>b) When does PG&E expect to begin constructing undergrounding projects that are accepted using WDRM v4?</p> <p>c) When will WDRM v4 begin to inform the scoping and execution of covered conductor projects?</p> <p>d) When does PG&E expect to begin constructing covered conductor projects that are accepted using WDRM v4?</p> <p>If for overhead hardening (covered conductor) projects:</p> <p>a) When does WDRM v4 begin to inform the scoping and execution of overhead hardening (covered conductor) projects in 2025 and beyond?</p> <p>b) When does PG&E expect to begin constructing overhead hardening (covered conductor) projects that are accepted using WDRM v4?</p> <p>c) When will WDRM v4 begin to inform the scoping and execution of overhead hardening (covered conductor) projects that are accepted using WDRM v4?</p> <p>d) When does PG&E expect to begin constructing overhead hardening (covered conductor) projects that are accepted using WDRM v4?</p>	<p>a. At this time, 2025 workplans are still being developed. PG&E cannot say with certainty when WDRM v4 will be implemented. PG&E is currently working on the WDRM v4 and expects to "inform risk-prioritized short-cycle work in 2025." PG&E's 2025-2028 WMP will provide details on whether WDRM v4 will be implemented in 2025.</p> <p>b. PG&E cannot say with certainty what long-cycle work it is expected to inform risk-prioritized long-cycle work in 2025 and beyond. PG&E's 2025-2028 WMP will provide details on whether WDRM v4 will be implemented in 2025.</p> <p>c. WDRM v4 will begin to inform the scoping of undergrounding projects as early as the second half of 2024 for undergrounding projects planned for completion in 2027 and beyond.</p> <p>d. For undergrounding projects accepted using WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for construction may begin in 2026 for projects to be completed in 2027.</p> <p>e. WDRM v4 will begin to inform the scoping of overhead hardening (covered conductor) projects as early as the second half of 2024 for projects expected to be completed in 2027 and beyond.</p> <p>f. For overhead hardening (covered conductor) projects accepted using WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for construction may begin in 2026 for projects to be completed in 2027.</p>	Mixa Gordon	4/5/2024	4/16/2024	4/12/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	6	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
512	CaPA	Set WMP-40	CaPA_Set WMP-40	6	CaPA_Set WMP-40_06	<p>PG&E states on page 31 of its 2025 WMP update that it is introducing a new evolution of its WRMIA Distribution Risk Model (WRM), called WDRM v4. What the output from the WDRM v4 are expected to inform some risk-prioritized, short-cycle work in 2025 and other risk-prioritized long-cycle work in 2026 and beyond?</p> <p>Please identify each WMP initiative for which WDRM v4 is expected to "inform risk-prioritized short-cycle work in 2025 and beyond."</p> <p>If for undergrounding projects:</p> <p>a) When does WDRM v4 begin to inform the scoping and execution of undergrounding projects in 2025 and beyond?</p> <p>b) When does PG&E expect to begin constructing undergrounding projects that are accepted using WDRM v4?</p> <p>c) When will WDRM v4 begin to inform the scoping and execution of covered conductor projects?</p> <p>d) When does PG&E expect to begin constructing covered conductor projects that are accepted using WDRM v4?</p>	<p>a. No. The System Hardening Accountability Report (SHAR) required by D-23-11-0897 will only include projects completed in the GRC period (2023 - 2026). Project details that are not included for projects that will be completed in 2027 and beyond. At this time, we are planning for projects identified using the WDRM v4 in accordance with the SB 884 as set forth in the 2025 WMP. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>b. WDRM v4 will begin to inform the scoping of overhead hardening (covered conductor) projects as early as the second half of 2024 for projects expected to be completed in 2027 and beyond.</p> <p>c. Please see the response to subpart (b) above for how PG&E reports this risk reduction in the SHAR.</p>	Mixa Gordon	4/5/2024	4/16/2024	4/12/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	6	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
513	CaPA	Set WMP-40	CaPA_Set WMP-40	7	CaPA_Set WMP-40_07	<p>PG&E states on page 31 of its 2025 WMP Update. "In response to AGC PG&E-23-09 - Updating Grid Hardening Decision Making, PG&E is developing a new (WDRM) to be used to incorporate cost-effective components, reliability considerations, and customer-specific mitigation effectiveness calculations." PG&E further states that undergrounding projects included in the WDRM v4 2024 and 2025 will have a completion date of 2027 or later."</p> <p>If the answer to part (a) is yes, please explain how this will be identified in the SHAR.</p> <p>If the answer to part (b) is yes, please identify any changes to the SHAR template (if adding fields) that would need to be made to include the necessary information to track this work.</p> <p>Does PG&E expect to require any changes to the SHAR to facilitate tracking projects accepted using the WDRM v4?</p>	<p>a. No. The System Hardening Accountability Report (SHAR) required by D-23-11-0897 will only include projects completed in the GRC period (2023 - 2026). Project details that are not included for projects that will be completed in 2027 and beyond. At this time, we are planning for projects identified using the WDRM v4 in accordance with the SB 884 as set forth in the 2025 WMP. PG&E's current forecasted cumulative risk reduction for system hardening in 2023-2024 is 4.7% (MAT codes 34.0 and 000 only). The actual risk reduction values of completed system hardening work are expected to meet the overall cumulative target of 18% by 2025.</p> <p>b. WDRM v4 will begin to inform the scoping of overhead hardening (covered conductor) projects as early as the second half of 2024 for projects expected to be completed in 2027 and beyond.</p> <p>c. Please see the response to subpart (b) above for how PG&E reports this risk reduction in the SHAR.</p> <p>d. No applicable, please see the response to subpart (a) above.</p> <p>e. No applicable, please see the response to subpart (a) above.</p> <p>f. No applicable, please see the response to subpart (a) above.</p> <p>g. Please see the response to subpart (a) above for the requested information.</p>	Mixa Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/customer-service/undergrounding-and-covered-conductor-projects	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 AGC PG&E-24-05 - Updating Grid Hardening Decision Making	

541	CaPA	Set WMP-42	CaPA_Set WMP-42	3	CaPA_Set WMP-42_03	<p>Page 7 of PG&E's 2025 WMP Update states, with regard to PG&E's distribution event probability models, "Significant efforts were made to improve system, options, and outage data quality." List and explain the significant efforts discussed above.</p>	<p>As mentioned on page 7 of PG&E's 2025 WMP, the following is a more detailed list of specific data quality improvements that are a result of the continuous effort to improve the quality and utilization of model data for assets, options, and outages.</p> <p>Asset data quality improvements included:</p> <ul style="list-style-type: none"> *Tracing asset failures and asset history back in time to identify the asset that failed and its characteristics. *Gathering asset information related to causal pathways as recommended by Subject Matter Experts (SME). *For support structures, this included: <ul style="list-style-type: none"> * Incorporating peak snowing strength as a failure in the model. * For primary conductors, this included: <ul style="list-style-type: none"> * Gathering distribution load flow software outputs. * Utilizing conductor models and data from original model results to continuous model inputs (i.e. conductor diameter, conductor strength, and conductor weight). * Including LDMR data and video observations where available in HFT areas. <p>Options data quality improvements included:</p> <ul style="list-style-type: none"> * Incorporating the impact of the Applied Technology Services (ATS) team that assessed fault current and wind data for line segments. * Including open logs. * For generic protective devices, fuses, switches, capacitor banks, and voltage regulators. * Gathering asset attributes as captured in EDSOS over time (2016-2022). * Including open logs. * Creating methodologies to estimate asset age when missing. * Reporting asset data quality issues to the Asset Knowledge Management team to resolve. <p>Outage data quality improvements were primarily focused on:</p> <ul style="list-style-type: none"> * Enhancing weather option data for use in the wildfire consequence model. * Reporting data quality issues back to the System Investigation team to resolve. <p>Change data quality improvements included:</p> <ul style="list-style-type: none"> * Improving the incorporating vegetation outage report latitude & longitude locations to the data for incorporating vegetation data from the power forward orientation and Risk Assessment of Weather-Related Outages, by Ryan Yoo four hours into each asset's location (2019-2022). The "Weather" option. When this paper, a probability density function is defined (equation 14) which quantifies the probability per angle of a conductor given the conductor's normal vector and direction of the wind. The probability density function is defined as the conductor's angle, to calculate the total probability of a line given a wind's direction, the line's location, and the location of the conductor segments. Due to the unavailability of LDMR for the distribution system, Power's canopy height data (2020) is used; the shape of the distribution and left an average distribution height of 8 meters to determine which of the poles within the canopy might cause a fault on a conductor and, approximately, which poles immediately have a chance of overhanging from the tree falling into a conductor. For wind vectors, Meteorology's POWER system is used. Data is 2 m by 2 m grids and communicates the wind vector components at 10m the response length to easily calculate specific wind heights over the system. For wind vectors, Meteorology's POWER system is used. Data is 2 m by 2 m grids and communicates the wind vector components at 10m the response length to easily calculate specific wind heights over the system. Since 07 meters per second is considered. Please note that the value 0.7 m/s was the value that the data of a tree falling in a storm are equal to a tree falling in a storm, based on the calculation as follows. The grid is divided into six segments of 6 meters in length. For each 5-meter segment, and for each tree in that segment, the probability of a tree falling into a line segment is calculated for all one-hour intervals of wind speeds greater than 0.7 m/s. All calculated probabilities are summed to get the total probability of a tree falling into a line segment. This is calculated by weighting each hourly probability by the increased odds of wind damage during the storm by using the log-cumulative distribution function (CDF) then multiply by the directional probability and finally multiplying by the inverse distance from the vegetation pole to the conductor. For each hour for each 5-meter segment by summing over all trees that fall within it. Finally, each 5-meter segment is summed to get the 100-meter by 100-meter resolution meter used in the WTRM and all associated data. 	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>6.2.2.2</p>	<p>6.0 Risk Methodology and Assessment</p>	<p>6.2.2.2 Consequence</p>
542	CaPA	Set WMP-42	CaPA_Set WMP-42	4	CaPA_Set WMP-42_04	<p>Table PG&E-11.1 on page 8 of PG&E's 2025 WMP Update indicates that WORM v4 includes wind direction in vegetation models.</p> <p>a) Describe how wind direction is incorporated in the vegetation models in WORM v4.</p> <p>b) List the data sources that PG&E uses to incorporate wind direction into its model.</p> <p>c) Describe the benefits of incorporating wind direction into the model.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>6.2.1</p>	<p>6.0 Risk Methodology and Assessment</p>	<p>6.2.1 Risk and Risk Component Identification</p>	
543	CaPA	Set WMP-42	CaPA_Set WMP-42	5	CaPA_Set WMP-42_05	<p>Page 16 of PG&E's 2025 WMP Update states, "In the WTRM v2 update, we corrected the wind direction conversion by applying a remaining strength of 92% (equivalent to Condition Code 2) to reinforced poles. In order to provide more accurate results."</p> <p>State the basis for applying a remaining strength of 92% to reinforced poles.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>6.2.2.2</p>	<p>6.0 Risk Methodology and Assessment</p>	<p>6.2.2.2 Consequence</p>	
544	CaPA	Set WMP-42	CaPA_Set WMP-42	6	CaPA_Set WMP-42_06	<p>Page 17 of PG&E's 2025 WMP Update states, "When viewed on a log-weighted basis, the relative average risk of each transmission line was viewed for strength. It should be noted that these three weighted values will tend to highlight different areas of concern."</p> <p>a) Does PG&E plan to correct for the fact that the weighted values tend to highlight short lines? If the answer to part (a) is no, explain why not.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>6.2.2.2</p>	<p>6.0 Risk Methodology and Assessment</p>	<p>6.2.2.2 Consequence</p>	
545	CaPA	Set WMP-42	CaPA_Set WMP-42	7	CaPA_Set WMP-42_07	<p>Page 24 of PG&E's 2025 WMP Update states that PG&E is adjusting P5-07 (Poletop P5PS impacts to Customers) in 2025 compared by 40% to account for a 40% decrease in underground cables.</p> <p>Does PG&E expect a similar reduction in the number of EPSS customer events impacted in 2025? Explain your answer.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E-25-14 Effectiveness Analysis for EPSS Including Implementation of DCD</p>	
546	CaPA	Set WMP-42	CaPA_Set WMP-42	8	CaPA_Set WMP-42_08	<p>Page 29 of PG&E's 2025 WMP Update states that PG&E's 2025 forecast capital expenditure associated with covered conductor installation will increase by \$1.1 billion from \$4.1 billion in 2024 to \$5.2 billion in 2025. The update Table PG&E-1.2.1 on page 402 of PG&E's 2025 WMP v4 notes indicate that, in 2025, 10% of the covered conductor installation will increase by a factor of 4, from 50 miles to 200 miles. Please explain why PG&E's capital forecast for 2025 will increase by a factor of 5.8 while the mileage will increase by a factor of 4.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>0</p> <p>NA</p> <p>4.3</p>	<p>4.0 Overview of WMP</p>	<p>4.3 Proposed Expenditures</p>	
547	CaPA	Set WMP-42	CaPA_Set WMP-42	9	CaPA_Set WMP-42_09	<p>In comparison to PG&E's WORM v3, does WORM v4:</p> <p>a) Move 10 percent or more of ignition risk into or out of the top ignition risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.1 in section 1.1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM v3 and v4.</p> <p>b) Move 10 percent or more of P5PS risk into or out of the top P5PS risk circuits, segments, or spans? If yes, please provide the data in the format of Table 1.2 in section 1.1.1 of the 2025 Wildfire Mitigation Plan Update Guidelines for both WORM v3 and v4.</p>	<p>July 2024</p> <p>4/30/2024</p> <p>4/12/2024</p> <p>4/12/2024</p>	<p>1</p> <p>NA</p> <p>6.2.1</p>	<p>6.0 Risk Methodology and Assessment</p>	<p>6.2.1 Risk and Risk Component Identification</p>	
548	CaPA	Set WMP-43	CaPA_Set WMP-43	1	CaPA_Set WMP-43_01	<p>Does not appear to be an option of covered conductor with both EPSS and DCD.</p> <p>a) Did PG&E consider an alternative that consists of covered conductor with EPSS and DCD? If the answer to part (a) is yes, why, the option not included as one of the possible alternatives in the WBCA? If the answer to part (a) is no, why not?</p>	<p>July 2024</p> <p>4/12/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E-25-05 - Updating Old Hardening Decision Making</p>	
549	CaPA	Set WMP-43	CaPA_Set WMP-43	2	CaPA_Set WMP-43_02	<p>The directed average effectiveness for alternatives 9 (REFCL with covered conductors, EPSS, and DCD) is lower than alternative 4 (covered conductors with EPSS).</p> <p>a) Why does the effectiveness for alternative 9 appear lower than alternative 4, although alternative 9 appears to include more mitigation techniques?</p>	<p>July 2024</p> <p>4/12/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E-25-05 - Updating Old Hardening Decision Making</p>	

550	CaPA	Set WMP-43	CaPA_Set WMP-43	3	CaPA_Set WMP-43_03	<p>The assumptions for each of the 10 alternatives are as follows:</p> <p>AL 1 - Baseline There are no assumed savings or ignition reduction in the Baseline scenario.</p> <p>AL 2 - Underground Primary All primary overhead outages for lines that are underground are mitigated. 100% of ignition risk is reduced. Secondary/tertiary conductor phase-to-phase outage ignition reduction is significant, however, there is still a chance for contact failure. Secondary/tertiary conductor phase-to-ground ignition reduction is less than average. No additional ignition risk reduction is achieved via enhanced settings.</p> <p>AL 3 - Underground All All primary and secondary overhead outages for lines that are underground are mitigated. 100% of ignition risk is reduced. The additional ignition risk reduction is achieved via enhanced settings.</p> <p>AL 4 - Covered Conductor (CC) Overhead with EPSS and DCD Phase-to-phase outage ignition risk is not reduced, but overhead conductor still leaves potential for ignition. Phase-to-ground and line-to-ground outage ignition reduction less than average. Secondary/tertiary conductor phase-to-phase outage ignition reduction, but overhead conductor still leaves potential for ignition. Pole-mounted towers (PMT) are not included in the study. Ignition risk is not reduced. Secondary/tertiary conductor phase-to-phase outage ignition risk reduction is significant but there is still a chance for contact failure. Secondary/tertiary conductor phase-to-ground outage ignition risk reduction is less than average. Additional ignition risk mitigation is achieved via enhanced settings.</p> <p>AL 5 - Bare Conductor (BC) Overhead with EPSS and DCD Secondary/tertiary conductor phase-to-phase outage ignition risk reduction is significant, but overhead conductor still leaves potential for ignition. Pole-mounted towers (PMT) are not included in the study. Ignition risk is not reduced. Secondary/tertiary conductor phase-to-phase outage ignition risk reduction is significant but there is still a chance for contact failure. Secondary/tertiary conductor phase-to-ground outage ignition risk reduction is less than average. Additional ignition risk mitigation is achieved via enhanced settings.</p> <p>AL 6 - Line Removal with Remote Call All primary overhead outages are mitigated, there are no overhead ignition events. Secondary/tertiary conductor phase-to-phase outage ignition risk reduction is significant, however, there is still a chance for contact failure. Secondary/tertiary conductor phase-to-ground outage ignition risk reduction is less than average. Additional ignition risk mitigation is achieved via enhanced settings.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/17/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
551	CaPA	Set WMP-43	CaPA_Set WMP-43	4	CaPA_Set WMP-43_04	<p>The table notes, "All of these effectiveness values represent a blended average effectiveness of the circuit segment level with the exception of AL 9 - REFL, CC Overhead, EPSS and DCD which is a substation effectiveness score. Not all substations are capable of having REFL applied, and it cannot be isolated to a circuit segment only."</p> <p>1) Does alternative nine assume that, for circuits where REFL cannot be applied at the substation, there are no ignition events? 2) If the answer to part (b) is yes, state the basis for this assumption. 3) Describe how PG&E would implement alternative 9 on circuits served by substations where REFL could be applied. 4) Describe how PG&E would implement alternative 9 on circuits served by substations where REFL could not be applied.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/26/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
552	CaPA	Set WMP-43	CaPA_Set WMP-43	5	CaPA_Set WMP-43_05	<p>Alternative 10 is the only alternative that appears to include PG&E. As a PG&E considered in any of the other alternatives? 2) Why is the effectiveness for alternative 10 lower than alternative that appear to include more mitigation techniques? 3) If the answer to part (b) is no, why not?</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/17/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
553	CaPA	Set WMP-43	CaPA_Set WMP-43	6	CaPA_Set WMP-43_06	<p>The table notes, "Not all substations are capable of having REFL applied, and it cannot be isolated to a circuit segment only."</p> <p>1) Does PG&E have plans to include overhead degradation of assets in its mitigation effectiveness analysis in the future? 2) How many of the substations in your response to part (a) are not capable of having REFL applied? 3) How many of the substations in part (b) for each substation, are the reasons why REFL cannot be applied? 4) If PG&E has not conducted the analysis necessary to respond to parts (b) and (c) in full, please explain why not.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/26/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>1</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
554	CaPA	Set WMP-43	CaPA_Set WMP-43	7	CaPA_Set WMP-43_07	<p>The table lists the assumption, "Mitigation effectiveness for other Environmental caused outages. None for Overhead and All for Underground". State the basis for this assumption.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/26/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
555	CaPA	Set WMP-43	CaPA_Set WMP-43	8	CaPA_Set WMP-43_08	<p>The table lists the assumption, "Analysis assumes no Overhead degradation for life of the asset". 1) State the basis for this assumption. 2) Does PG&E have plans to include overhead degradation of assets in its mitigation effectiveness analysis in the future? 3) How many of the substations in your response to part (a) are not capable of having REFL applied? 4) How many of the substations in part (b) for each substation, are the reasons why REFL cannot be applied? 5) If PG&E has not conducted the analysis necessary to respond to parts (b) and (c) in full, please explain why not.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/17/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
556	CaPA	Set WMP-43	CaPA_Set WMP-43	9	CaPA_Set WMP-43_09	<p>The table lists the assumption, "EPSS and DCD are only active when conditions are greater than 81". State the basis for this assumption. 1) Are weather events an applicable attribute in the outage combinations used in PG&E's ignition effectiveness assessment? 2) Please provide a list of applicable attributes to be used in outage combinations.</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/17/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-05 - Updating Old Hardware Decision Making</p>
557	CaPA	Set WMP-43	CaPA_Set WMP-43	10	CaPA_Set WMP-43_010	<p>Page 66 of PG&E's 2023 WMP Update states, "The Joint Utilities have met monthly in 2023 to discuss the results of recorded and estimated effectiveness for covered conductor." 1) Provide the results of recorded effectiveness for covered conductor that were discussed in 2023 for each of the Joint Utilities. 2) Provide the results of estimated effectiveness for covered conductor that were discussed in 2023 for each of the Joint Utilities. 3) Identify the outages from the monthly meetings in 2023 and include:</p>	<p>Andy Williams</p>	<p>4/12/2024</p>	<p>4/17/2024</p>	<p>4/17/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>1</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-09 - Continuation of Old Hardware Joint Studies</p>
557	CaPA	Set WMP-43	CaPA_Set WMP-43	10a)	CaPA_Set WMP-43_010a)	<p>Cal Advocates requested results of meetings held in 2023 regarding the effectiveness for covered conductor. PG&E's response appears to be identical to the Joint IOU report from its 2023-2025 Base WMP (2023-03-01-27_PGSE_2023_WMP_PD_Appendix D ACI PG&E 23-11_Acct'd.pdf, provided to OESB March 2023), and does not include results of meetings held in 2023. 1) If yes, please provide those in response to the data request. 2) PG&E will include the results of recorded and estimated effectiveness for covered conductor working group in the 2023-2025 WMP Update located on pages 64-65 of the ACI PG&E 2023-05 report. PG&E does not have response materials in addition to what was provided in the 2023 WMP Update. 3) Please see the assumption, "WMP Update 2023-05-01-27_PGSE_2023_WMP_PD_Appendix D ACI PG&E 23-11_Acct'd.pdf" for the Joint IOU Covered Conductor Working Group Report which includes the results of recorded and estimated effectiveness for covered conductors discussed during 2023 monthly Joint Utility meetings. 4) Please see the response to subject (a) for the requested information. 5) PG&E is not aware of additional findings outside of those in the Joint IOU Covered Conductor Working Group Report.</p>	<p>Andy Williams</p>	<p>4/19/2024</p>	<p>4/24/2024</p>	<p>4/24/2024</p>	<p>https://www.pge.com/assets/pge/docs/2023/2023-03-01-CA-PA-Substation-Effectiveness-Analysis-04-13-2024.pdf</p>	<p>0</p>	<p>N/A</p>	<p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p>	<p>11.4 ACI PG&E 23-06 - Continuation of Old Hardware Joint Studies</p>

558	CAIPA	Set WMP-43	CAIPA_Set WMP-43	11	CAIPA_Set WMP-43_011	<p>Pages 68-67 of PG&E's 2025 WMP Update for three workshops the Joint Utilities held with Energy Safety, June 2023 Distribution Fault Mitigation (DFM) workshop, July 2023 Early Fault Detection, August 2023 REFLC.</p> <p>Provide a copy of any materials prepared by PG&E for each of the three workshops.</p> <p>List any findings from each of the three workshops.</p> <p>List any action items PG&E took on from each of the three workshops.</p>	<p>4/12/2024</p>	4/17/2024	4/17/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-011.pdf</p>	4	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-08 – Continuation of Grid Resiliency Joint Studies
558	CAIPA	Set WMP-43	CAIPA_Set WMP-43	11(b)	CAIPA_Set WMP-43_011(b)	<p>In response to part (b), PG&E stated, "No reports, minutes, recordings were taken or prepared at the referenced workshop." However, Slide 6 of attachment 2 lists "meeting minutes" under "next steps."</p> <p>Please verify whether PG&E possesses any meeting minutes associated with the workshops discussed in question 11.</p> <p>If yes, please provide these in response to this data request.</p>	<p>4/19/2024</p>	4/24/2024	4/24/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-011(b).pdf</p>	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-08 – Continuation of Grid Resiliency Joint Studies
559	CAIPA	Set WMP-43	CAIPA_Set WMP-43	12	CAIPA_Set WMP-43_012	<p>Page 67 of PG&E's 2025 WMP Update states, "In 2023, the utilities discussed the unit costs of JCC and underpinning and completed a JCC report. The effort cost drivers.</p> <p>Provide the unit costs of covered conductor that were discussed in 2023 for each of the JCC utilities.</p> <p>Describe the unit costs of underpinning that were discussed in 2023 for each of the JCC utilities.</p> <p>List any other findings from the monthly meetings in 2023 noted above.</p>	<p>4/12/2024</p>	4/17/2024	4/17/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-012.pdf</p>	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-08 – Continuation of Grid Resiliency Joint Studies
559	CAIPA	Set WMP-43	CAIPA_Set WMP-43	12(b)	CAIPA_Set WMP-43_012(b)	<p>CAI Advocates requested results of meetings held in 2023 regarding the unit costs and cost drivers of covered conductor and underpinning. PG&E's response refers to the attachment to Question 12(a), as noted above does not discuss results from 2023 meetings.</p> <p>Please verify whether PG&E possesses documents responsive to question 12 that include the unit costs and cost drivers of covered conductor and underpinning based on meetings held in 2023.</p> <p>If yes, please provide these in response to this data request.</p>	<p>4/19/2024</p>	4/24/2024	4/24/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-012(b).pdf</p>	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-08 – Continuation of Grid Resiliency Joint Studies
560	CAIPA	Set WMP-43	CAIPA_Set WMP-43	13	CAIPA_Set WMP-43_013	<p>Page 68 of PG&E's 2025 WMP Update states, with regard to the REFLC pilot at the Calistoga substation, "Although we are committed to continuing this demonstration project, several factors have caused delays in commissioning the program, including equipment failures, extended lead time of equipment, and the need to procure additional equipment to further stabilize the system."</p> <p>List and describe each equipment failure that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>List and describe each instance of extended lead time that occurred during 2021, 2022, or 2023 and delayed the commissioning of the program.</p> <p>What does PG&E currently anticipate receiving additional results from the REFLC pilot at the Calistoga substation?</p> <p>List each of the efforts PG&E makes in 2023 to accelerate the REFLC pilot at the Calistoga substation.</p> <p>List each of the efforts PG&E plans to make in 2024 to accelerate the REFLC pilot at the Calistoga substation.</p> <p>List each of the efforts PG&E plans to make in 2025 to accelerate the REFLC pilot at the Calistoga substation.</p>	<p>4/12/2024</p>	4/17/2024	4/17/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-013.pdf</p>	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 – Deployment of New Technologies
561	CAIPA	Set WMP-43	CAIPA_Set WMP-43	14	CAIPA_Set WMP-43_014	<p>Page 69 of PG&E's 2025 WMP Update states, "As of December 2023, PG&E moved beyond pilot and into implementation of these technologies, having installed EFD technology on 103 locations over 8 distribution circuits and DFA technology at 79 substations."</p> <p>State the approximate number of circuit miles on which DFA is currently active.</p> <p>State the approximate number of circuit miles on which DFA is currently active.</p> <p>Describe PG&E's standards and criteria for determining where to install EFD technology.</p> <p>Describe PG&E's standards and criteria for determining where to install DFA technology.</p> <p>Provide the results of the pilot program mentioned in the quote above, which prompted PG&E to move into production and deployment of these technologies in December 2023.</p> <p>Provide any reports, analysis, or other documentation of the results of the pilot program.</p>	<p>4/12/2024</p>	4/17/2024	4/17/2024	<p>https://www.pge.com/assets/pge/2025/2025-Workshops-CAIPA-Set-WMP-43-014.pdf</p>	0	N/A	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 – Deployment of New Technologies

562	CaPA	Set WMP-43	CaPA_Set WMP-43	16	CaPA_Set WMP-43_016	<p>Table ACI-PG&E-23-09-1 on page 75 of PG&E's 2025 WMP Update lists the number of HFTD structures at each consequence level from E&S to Medium.</p> <p>Provide an updated version of the table with additional rows to show the structures with a consequence risk lower than that reported in the HFTD table.</p> <p>Please provide an updated version of the table (including the additional rows from part (a)) for the structures in the HFTD table that are not HFTD.</p> <p>Explain the methodology PG&E used to segregate its pit maps by consequence risk.</p> <p>Provide any procedures, reports, analyses, or other documents to support your responses to part (c).</p>	<p>0 Please see below for an updated Table ACI-PG&E-23-09-1.</p> <p>Row #1 HFTD/HFRA</p> <p>Structure</p> <p>Size-on-Risk</p> <p>EDR</p> <p>HeadStructure</p> <p>E&S - Tier 1 1,464.1 0.00% 3.2 x 1.04</p> <p>E&S - Tier 2 2,874.2 0.00% 3.7 x 1.04</p> <p>CPZ - Tier 1</p> <p>CPZ - Tier 2</p> <p>CPZ - Tier 3</p> <p>High 18,481 37.00% 5.5 x 1.04</p> <p>High - Tier 1 27,897 15.00% 5.5 x 1.04</p> <p>High - Tier 2</p> <p>High - Tier 3 33,408 10.00% 3.0 x 1.04</p> <p>Medium - Tier 1</p> <p>Medium - Tier 2</p> <p>Medium - Tier 3</p> <p>Low 485,498 24.30% 0.5 x 1.04</p> <p>Low - Tier 1 3,083,663 0.50% 0.5 x 1.04</p> <p>Low - Tier 2</p> <p>Low - Tier 3</p> <p>346,522 16.80% 0.3 x 1.04</p> <p>1) Table ACI-PG&E-23-09-1 includes HFTD/HFRA structures in its Tier 2 counts and should have been labeled as such to begin with. PG&E has corrected the labels in the table above.</p> <p>2) PG&E uses WORM v4 to create the maps, which provides wildfire consequence analysis.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>1</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-09 - Decrease in Dashed Distribution Inspections</p>
563	CaPA	Set WMP-43	CaPA_Set WMP-43	16	CaPA_Set WMP-43_016	<p>Table ACI-PG&E-23-09-1 on page 75 of PG&E's 2025 WMP Update lists the number of HFTD structures at each consequence level from E&S to Medium.</p> <p>Provide an updated version of the table with additional rows to show the structures with a consequence risk lower than that reported in the HFTD table.</p> <p>Please provide an updated version of the table (including the additional rows from part (a)) for the structures in the HFTD table that are not HFTD.</p> <p>Explain the methodology PG&E used to segregate its pit maps by consequence risk.</p> <p>Provide any procedures, reports, analyses, or other documents to support your responses to part (c).</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-09 - Decrease in Dashed Distribution Inspections</p>	
564	CaPA	Set WMP-43	CaPA_Set WMP-43	17	CaPA_Set WMP-43_017	<p>Table ACI-PG&E-23-09-1 on page 75 of PG&E's 2025 WMP Update lists the number of HFTD structures at each consequence level from E&S to Medium.</p> <p>Provide an updated version of the table with additional rows to show the structures with a consequence risk lower than that reported in the HFTD table.</p> <p>Please provide an updated version of the table (including the additional rows from part (a)) for the structures in the HFTD table that are not HFTD.</p> <p>Explain the methodology PG&E used to segregate its pit maps by consequence risk.</p> <p>Provide any procedures, reports, analyses, or other documents to support your responses to part (c).</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-09 - Decrease in Dashed Distribution Inspections</p>	
565	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	1	MGRA_Data_Request No. 10_01	<p>Please provide a spreadsheet listing (in rows) of every undergrounding project completed during the period of January 1, 2023, through December 31, 2023, including non-CPZ projects. For each project, please provide the following information (in columns):</p> <p>a) Project ID number or other identifier</p> <p>b) CPZ ID</p> <p>c) ID of each circuit segment that was fully undergrounded in the project</p> <p>d) Total number of underground conductor installed</p> <p>e) Total number of customers served by the project</p> <p>f) Total number of minutes of PSPS experienced by the project circuit segments since 2015.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>1</p> <p>NA</p> <p>8</p>	<p>Section 8.1.2 - Grid Design and System Hardening</p> <p>8.1.2.2 Undergrounding of electric lines and/or equipment</p>	
566	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	2	MGRA_Data_Request No. 10_02	<p>Please provide a spreadsheet listing (in rows) of every planned undergrounding project to be fully or partially completed by the end of 2024. This includes work currently underway, completed in 2024, or to be performed in 2024.</p> <p>a) Project number</p> <p>b) CPZ ID</p> <p>c) Circuit segment name or ID number (if the project affects more than one circuit segment, please identify each one)</p> <p>d) Circuit segment risk level(s) from the wildfire risk model that you are using to estimate distribution risk in your 2025 WMP Update</p> <p>e) The expected start date of the project</p> <p>f) The expected completion date of the project</p> <p>g) Length (in circuit miles) of overhead conductor to be permanently removed prior to the end of 2025</p> <p>h) Length (in circuit miles) of overhead conductor to be permanently removed prior to the end of 2025 and replaced by underground conductor (note that this may differ slightly from the previous section due to differing overhead and underground conductors)</p> <p>i) Length (in circuit miles) of overhead conductor to be permanently removed in 2025 and not replaced with covered conductor or undergrounded</p> <p>j) Total number of customers served by the project</p> <p>k) Total number of minutes of PSPS experienced by the project circuit segments since 2015.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>1</p> <p>NA</p> <p>8</p>	<p>Section 8.1.2 - Grid Design and System Hardening</p> <p>8.1.2.2 Undergrounding of electric lines and/or equipment</p>	
567	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	3	MGRA_Data_Request No. 10_03	<p>Are DCD algorithms based on prevailing weather conditions? If so, please describe how severity of DCD is adjusted according to weather.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NR</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD</p>	
568	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	4	MGRA_Data_Request No. 10_04	<p>During the last AGP 8R8 review and under the AGMS technology was mentioned that could allow much faster switching of feed configurations. Please describe AGMS and what mitigations it could be used and how much it might help to reduce the wildfire risk.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD</p>	
569	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	5	MGRA_Data_Request No. 10_05	<p>Please provide the 2022 and 2023 EPSS reliability studies related to p. 8 and p. 12 of TNY08_20240402T11298_20240402_PGE_2025_WMP_Update_Ann_A02315_A0207.pdf</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>3</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD</p>	
570	MGRA	Date Request No. 10	MGRA_Data_Request No. 10	6	MGRA_Data_Request No. 10_06	<p>As an addendum to the April 8th meet and confer, please provide distribution unpermitted outage data for the 2023 calendar year in any format required to remove that could show much faster switching of feed configurations. Please describe the format required by the Statewide Outage Data Report.</p>	<p>0</p> <p>1</p>	<p>4/17/2024</p> <p>4/17/2024</p> <p>4/17/2024</p>	<p>1</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-14 Effectiveness Analysis for EPSS Including Implementation of DCD</p>	
571	CaPA	Set WMP-44	CaPA_Set WMP-44	1	CaPA_Set WMP-44_01	<p>Page 52 of PG&E's 2025 WMP Update states:</p> <p>"We assessed the effectiveness of each of the mitigation alternatives against more than 2,300 outage combinations that have occurred in PG&E's HFTD during wildfire season. PG&E SMEs reviewed each of the outage combinations and identified the most effective mitigation at preventing each outage combination."</p> <p>How many SMEs were involved in reviewing outage combinations and assigning effectiveness ratings? Please also show which wildfire risk model was used for the configuration. Please describe the methodology used to assign a specific time period? Please explain your answer.</p> <p>Do the 2,300 outage combinations include outage combinations that occurred in PG&E's HFRA but not in the HFTD? Please explain your answer.</p>	<p>0</p> <p>1</p>	<p>4/15/2024</p> <p>4/16/2024</p> <p>4/16/2024</p>	<p>0</p> <p>NA</p> <p>11.4</p>	<p>Appendix D - Areas for Continued Improvement</p> <p>11.4 ACI PG&E-23-05 - Updating Grid Hardening Decision Making</p>	

572	CAIPA	Set WMP-44	CAIPA_Set WMP-44	2	CAIPA_Set WMP-44_02	<p>As an add-on to the WMP Update, please provide the following information:</p> <p>1) Please describe the methods used in the WBCA to adjust for the outage combinations likely to occur on a given circuit segment. For estimated frequency, and that contribution to overall risk on the circuit segment.</p> <p>2) Please describe the methods used in the WBCA to adjust for the estimated frequency likely to occur on a given circuit segment.</p> <p>3) Please describe the methods used in the WBCA to adjust for the contribution of outage combinations to overall risk on a given circuit segment.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Hardening Decision Making
573	CAIPA	Set WMP-44	CAIPA_Set WMP-44	3	CAIPA_Set WMP-44_03	<p>Page 54 of PG&E's 2023 WMP Update states, "To determine circuit segment-level mitigation effectiveness, the WBCA will adjust for outage combinations likely to occur on a given circuit segment, their estimated frequency, and that contribution to overall risk on the circuit segment."</p> <p>1) Please describe the methods used in the WBCA to adjust for the estimated frequency likely to occur on a given circuit segment.</p> <p>2) Please describe the methods used in the WBCA to adjust for the contribution of outage combinations to overall risk on a given circuit segment.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Hardening Decision Making
574	CAIPA	Set WMP-44	CAIPA_Set WMP-44	4	CAIPA_Set WMP-44_04	<p>Page 56 of PG&E's 2023 WMP Update discusses Understanding versus Overhead Hardening. Understanding is used to make greater total investment risk reduction, but takes longer and costs more to install.</p> <p>1) Has PG&E conducted an analysis of the transmission and distribution system to determine the estimated remaining useful life of its assets?</p> <p>2) If the answer to part (a) is no, does PG&E consider the remaining life of assets when evaluating benefits of overhead hardening, which is faster to deploy?</p> <p>3) If the answer to part (a) is yes, please provide any applicable analysis related to the condition of PG&E's transmission and distribution system assets.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Hardening Decision Making
575	CAIPA	Set WMP-44	CAIPA_Set WMP-44	5	CAIPA_Set WMP-44_05	<p>Page 57 of PG&E's 2023 WMP Update states, "Regarding cost effectiveness scores, the undergrounding project's current scores were previously assessed using methodology (FORM) 12 and 13 but did not incorporate cost effectiveness scores for individual projects. Therefore, cost effectiveness scores are not available."</p> <p>1) Define the term "undergrounding project" in the above statement.</p> <p>2) Has PG&E used the output from WORM v4 to calculate the cost effectiveness scores for all projects in PG&E's current undergrounding portfolio?</p> <p>3) If the answer to part (b) is no, explain why not.</p> <p>4) Does PG&E plan to use the output from WORM v4 to calculate the cost effectiveness scores for the undergrounding projects in PG&E's current portfolio?</p> <p>5) If the answer to part (a) is no, when does PG&E anticipate completing this analysis?</p> <p>6) If the answer to part (a) is no, explain why not.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Updating Grid Hardening Decision Making
576	CAIPA	Set WMP-44	CAIPA_Set WMP-44	6	CAIPA_Set WMP-44_06	<p>Figure ACP-FIG-23-02-1 on page 40 of PG&E's 2023 WMP Update states, "When considering the overall wildfire risk with EPSS and PSPS, this is the 'Cost Distribution Overhead'."</p> <p>1) Define the phrase "Distribution Overhead" in the context of the overall wildfire risk with EPSS and PSPS compared to "Distribution Overhead."</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - PSPS and Wildfire Risk Trade-Off Transparency
577	CAIPA	Set WMP-44	CAIPA_Set WMP-44	7	CAIPA_Set WMP-44_07	<p>Figure ACP-FIG-23-02-1 on page 40 of PG&E's 2023 WMP Update indicates that wildfire risk is approximately \$20.68 million, and PSPS and EPSS combined reduce the wildfire risk by approximately \$16.35 million.</p> <p>1) Are the \$20.68 million wildfire risk and the \$16.35 million risk reduction estimates annual? Please provide the estimate in years.</p> <p>2) Do the \$20.68 million wildfire risk and the \$16.35 million risk reduction estimates apply to PG&E's entire service territory? Please explain why.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - PSPS and Wildfire Risk Trade-Off Transparency
578	CAIPA	Set WMP-44	CAIPA_Set WMP-44	8	CAIPA_Set WMP-44_08	<p>Figure ACP-FIG-23-02-1 on page 40 of PG&E's 2023 WMP Update indicates that wildfire risk is approximately \$20.68 million, and PSPS and EPSS combined reduce the wildfire risk by approximately \$16.35 million.</p> <p>1) Has PG&E estimated the incremental wildfire risk reduction (in dollars) attributed to wildfire deployment of REFL? Please provide the estimate in years.</p> <p>2) If the answer to part (a) is no, why has PG&E not conducted that analysis?</p> <p>3) If the answer to part (a) is yes, why has PG&E not conducted that analysis? Please provide the estimate in years.</p> <p>4) Has PG&E estimated the incremental wildfire risk reduction attributed to wildfire deployment of REFL? Please provide the estimate in years.</p> <p>5) If the answer to part (a) is no, why has PG&E not conducted that analysis?</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - PSPS and Wildfire Risk Trade-Off Transparency
579	CAIPA	Set WMP-44	CAIPA_Set WMP-44	9	CAIPA_Set WMP-44_09	<p>Page 67 of PG&E's 2023 WMP Update states, "COPC responsible fire systems on EPSS installed circuits were reduced by approximately 72% relative to the three-year historical average."</p> <p>1) Please provide copies of any reports, analysis, or other documentation supporting PG&E's claim on the reduction of COPC responsible fire systems on EPSS installed circuits.</p> <p>2) If the answer to part (a) is no, please state how such outputs are distinguishable.</p> <p>3) If the answer to part (a) is no, does PG&E plan to make such outputs distinguishable in future EPSS monthly reports?</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-14 - Effectiveness Analysis for EPSS Including Implementation of DCD
580	CAIPA	Set WMP-44	CAIPA_Set WMP-44	10	CAIPA_Set WMP-44_10	<p>The following table is from PG&E's 2022 Annual Electric Reliability Report, page 12:</p> <p>1) Please provide an updated version of the table with an additional row for 2023.</p> <p>2) If PG&E is unable to provide any of the requested data from (a), please provide a reason for each data point.</p> <p>3) If PG&E is unable to provide any of the requested data from (b), please provide an estimate of when this data will be available.</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	NA	NA	NA
581	CAIPA	Set WMP-44	CAIPA_Set WMP-44	11	CAIPA_Set WMP-44_11	<p>Table ACP-FIG-23-23-1 on page 112 of PG&E's 2023 WMP Update includes the following entry:</p> <p>1) Explain why the last calibration date of this weather station was recorded as 9/12/2022, over three months after the station was removed on September 17, 2022.</p> <p>2) Provide any records of the calibration on 9/12/2022.</p> <p>3) Was PG&E able to confirm the date the station had been destroyed?</p> <p>4) When does PG&E plan to replace the destroyed station?</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-19 - Continued Progression of System Management Maturity
582	CAIPA	Set WMP-44	CAIPA_Set WMP-44	12	CAIPA_Set WMP-44_12	<p>Table ACP-FIG-23-23-2 on page 113 of PG&E's 2023 WMP Update includes the following entry:</p> <p>1) Explain why the last calibration date of this weather station was recorded as 11/17/2022, over one month after the station was removed on September 17, 2022.</p> <p>2) Provide any records of the calibration on 11/17/2022.</p> <p>3) Was PG&E able to confirm the date the station had been destroyed?</p> <p>4) When does PG&E plan to replace the destroyed station?</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-23 - Weather Station Maintenance and Calibration
583	CAIPA	Set WMP-44	CAIPA_Set WMP-44	13	CAIPA_Set WMP-44_13	<p>Table ACP-FIG-23-23-3 on page 113 of PG&E's 2023 WMP Update includes the following entry:</p> <p>1) Explain why the last calibration date of this weather station was recorded as 11/17/2022, over one month after the station was removed on September 17, 2022.</p> <p>2) Provide any records of the calibration on 11/17/2022.</p> <p>3) Was PG&E able to confirm the date the station had been destroyed?</p> <p>4) When does PG&E plan to replace the destroyed station?</p>	July/Walman	4/15/2024	4/18/2024	4/18/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-23 - Weather Station Maintenance and Calibration

660	CPUC - SPD (Safety Policy Division)	016	CPUC - SPD (Safety Policy Division)_016	17	CPUC - SPD (Safety Policy Division)_016_017	CONFIDENTIAL - This question refers to the table titled "AG Population & Risk Rating" on slide 29 of the presentation to the Wildlife Risk Governance Committee presented on October 19, 2023 (sent to SPD on "WMP-Discovery2023-2025_DR_SPD_016-018-019-020-021-022-023-024-025-026-027-028-029-030-031-032-033-034-035-036-037-038-039-040-041-042-043-044-045-046-047-048-049-050-051-052-053-054-055-056-057-058-059-060-061-062-063-064-065-066-067-068-069-070-071-072-073-074-075-076-077-078-079-080-081-082-083-084-085-086-087-088-089-090-091-092-093-094-095-096-097-098-099-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-12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07-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-265
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Pre-Discovery 80	CaPA	Set WMP-39	CaPA_Set WMP-39	19	CaPA_Set WMP-39_Q19	<p>In response to data request CalAdvocates-POE-2023WMP-39 question 5, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023.</p> <p>a) Has PG&E completed the 2023 Electric Asset Management Plan?</p> <p>b) If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan.</p> <p>c) If the answer to part (a) is no, please explain the delay.</p> <p>d) If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.</p>	<p>PG&E is working on completing final updates to the 2023 Electric Asset Management Plan and tentatively plans to publish the document in June 2024.</p> <p>PG&E will provide the completed document once it is finalized and published.</p> <p>Not applicable.</p> <p>The 2023 Electric Asset Management Plan has been reviewed and approved by PG&E leadership. However, the document is still going through the technical writer formatting and processing, along with the other functional areas' asset management plans.</p> <p>PG&E tentatively expects to publish the 2023 Electric Asset Management Plan in June 2024.</p>	Holly Wahlen	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/energy/development/asset-management/2023-electric-asset-management-plan	0	N/A	N/A	N/A	N/A
Pre-Discovery 80	CaPA	Set WMP-39	CaPA_Set WMP-39	19(a)	CaPA_Set WMP-39_Q19(a)	<p>In response to data request CalAdvocates-POE-2023WMP-39 question 5, September 27, 2023, PG&E stated that it expected to publish its 2023 Electric Asset Management Plan by the end of 2023.</p> <p>a) Has PG&E completed the 2023 Electric Asset Management Plan?</p> <p>b) If the answer to part (a) is yes, please provide a copy of the 2023 Electric Asset Management Plan.</p> <p>c) If the answer to part (a) is no, please explain the delay.</p> <p>d) If the answer to part (a) is no, please state when PG&E currently expects to publish the 2023 Electric Asset Management Plan.</p>	<p>Yes</p> <p>Please see "WMP-Discovery2023-2023_DR_CaPAAdvocates_038-Q019Supp1Ain611COFN.pdf" for the completed 2023 Electric Asset Management Plan.</p>	Holly Wahlen	3/22/2024	6/21/2024	6/18/2024	https://www.pge.com/energy/development/asset-management/2023-electric-asset-management-plan	1	N/A	N/A	N-G237-C0856A	N/A
Pre-Discovery 81	CaPA	Set WMP-39	CaPA_Set WMP-39	20	CaPA_Set WMP-39_Q20	<p>In response to data request CalAdvocates-POE-2023WMP-39 question 6, September 27, 2023, PG&E stated the following: "We will evaluate the history of responses to wire down conditions in the HFRA/NFTD occurring during the traditional peak wildfire season of (between) May 1 and November 1, going back to 2020. We can complete the analysis by December 31, 2023."</p> <p>a) Has PG&E completed the analysis mentioned above?</p> <p>b) If the answer to part (a) is yes, briefly describe your findings.</p> <p>c) If the answer to part (a) is no, please provide a copy of any reports or other output from the analysis.</p> <p>d) If the answer to part (a) is no, please explain the delay.</p> <p>e) If the answer to part (a) is no, please state when PG&E currently expects to complete this analysis.</p>	<p>PG&E has not yet completed its evaluation. PG&E is currently evaluating outages in High Fire Risk Areas (HFRA), High Fire Threat Districts (HFTD) areas with only normal conditions during peak wildfire season between May 1 and November 1 at this time.</p> <p>If not applicable, please see the response to subpart (a).</p> <p>If not applicable, please see the response to subpart (a).</p> <p>If the HFRA / HFTD Wire Down Outage Response time analysis has been delayed due to wildfire concerns shown by the extended 2023 wildfire season and the 2024 wildfire season planning activities.</p> <p>PG&E expects to complete the analysis by May 2024.</p>	Holly Wahlen	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/energy/development/asset-management/2023-electric-asset-management-plan	0	N/A	8.2.3.4	Vegetation Management and Inspections	Fall in Mitigation