

Count	Party Name	Data Set	Data Request	Question No.	Question ID	Question Text	Response	Requester	Date Rec'd	Final Due Date	Data Set	Links	Number of Answers	NDA Required	2023 WMP Section	Category	Subcategory
1	CaPA	Sat WMP-07	CaPA_Sat WMP-07	1	CaPA_Sat WMP-07_01	In the review of PG&E's WORM (3) 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 regularly received meteorological datasets." a) Please confirm that no asset data collected after January 1, 2022 was used in the WORM (3). b) Please describe how PG&E's WORM (3) data was used in the WORM (3). Please specify the dataset on which the asset data was collected. c) Please confirm that "asset data" is part of the geospatial (GIS) data from the geospatial system of record. If not, please state the source of the asset data.	a) All distribution asset data utilized in the Wildlife Distribution Risk Model (WDRM) (3) was extracted from PG&E's EDGIS 2022 on January 1, 2022, with the exception of the transformer model which was extracted from EDGIS on February 2, 2022. b) The WDRM (3) was developed in part a) and b) to geospatial (GIS) data from the geospatial system of record. If not, please state the source of the asset data. c) Please see the response to 2b.	Joshua Borowski	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework
2	CaPA	Sat WMP-07	CaPA_Sat WMP-07	2	CaPA_Sat WMP-07_02	Page 15 of the E3 Review includes a list of components included in the WORM (3). 4 of these items are the data for the WORM (3) was finalized. 3) If the list of components that are used in the E3 Review, please provide an updated and complete list of components that are used in PG&E's WORM (3). If any items are included in your response to Question 2(b) 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 given in response to Question 2(b) are different from those given in question 1b), please explain why they are different.	a) The Wildlife Distribution Risk Model (WDRM) (3) was finalized by approval of the Wildlife Risk Management Steering Committee (WRMISC) on April 13, 2022. b) The latest version of the WDRM (3) was finalized on April 13, 2022. The E3 Review included the WDRM (3) data as presented in the sub-model listed in Figure 5 Sub-model Positive Performance Measures on page 21 of the E3 Review document. The applicable data for the WDRM (3) was finalized on April 13, 2022. c) Not applicable, please see response to 2b.	Joshua Borowski	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework
3	CaPA	Sat WMP-07	CaPA_Sat WMP-07	3	CaPA_Sat WMP-07_03	a) Please confirm the date that the WDRM (4) was finalized. If it has not been finalized, please provide an explanation as to why it has not been finalized. b) Please provide a current list of components that are used in the WDRM (4). Please include the most recent date for any asset data used in the model, and any updates on which the data used in the model was collected. c) Please confirm that "asset data" is part of the geospatial (GIS) data from the geospatial system of record. If not, please state the source of the asset data.	a) The Wildlife Distribution Risk Model (WDRM) (4) has not been finalized. Model review and approval is scheduled for Q2 2023. b) The list of equipment components in the WDRM (4) has not been finalized at this time. c) The asset data for the WDRM (4) was extracted from PG&E's EDGIS on January 1, 2023. d) Please see the response to 2b.	Joshua Borowski	3/27/2023	3/30/2023	3/30/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.2	Risk Methodology and Assessment	Risk Analysis Framework
4	MSRA	Data Request No. 1	MSRA_Data Request No. 1	1	MSRA_Data Request No. 1_01	Please provide the Asset Point data for Camera, Fuse, Support Structure, and Weather Station.	In response to this request, PG&E is providing Camera and Weather Station data, as defined in the Q4 2022 O&S GIS 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 Fuse feature class as this data is confidential critical energy infrastructure information (CEII).	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	1	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
4	MSRA	Data Request No. 1	MSRA_Data Request No. 1	1(b)	MSRA_Data Request No. 1_01(b)	Please provide the Asset Point data for Camera, Fuse, Support Structure, and Weather Station.	In response to this request, PG&E is providing Camera and Weather Station data, as defined in the Q4 2022 O&S GIS 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 Fuse feature class as this data is confidential critical energy infrastructure information (CEII).	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	4	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
5	MSRA	Data Request No. 1	MSRA_Data Request No. 1	2	MSRA_Data Request No. 1_02	Please 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 CEII.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
5	MSRA	Data Request No. 1	MSRA_Data Request No. 1	2(b)	MSRA_Data Request No. 1_02(b)	Please 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 CEII.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
6	MSRA	Data Request No. 1	MSRA_Data Request No. 1	3	MSRA_Data Request No. 1_03	Please provide PPS Event data, including Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Please provide PPS Event Asset Damage data including photos.	In response to this request, PG&E is unable to provide PPS Event data, PPS Event Damage data, and PPS Event Damage photos since these were not PPS's events but tasks throughout 2022.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
6	MSRA	Data Request No. 1	MSRA_Data Request No. 1	3(b)	MSRA_Data Request No. 1_03(b)	Please provide PPS Event data, including Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Please provide PPS Event Asset Damage data including photos.	In response to this request, PG&E is unable to provide PPS Event data, PPS Event Damage data, and PPS Event Damage photos since these were not PPS's events but tasks throughout 2022.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
7	MSRA	Data Request No. 1	MSRA_Data Request No. 1	4	MSRA_Data Request No. 1_04	Please provide Risk Event Point data, including Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Caused Upstream Outage, 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 Caused Upstream Outage, and Risk Event Asset Log feature classes and related tables. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
7	MSRA	Data Request No. 1	MSRA_Data Request No. 1	4(b)	MSRA_Data Request No. 1_04(b)	Please provide Risk Event Point data, including Wire Down, Ignition, Transmission Upstream Outage, Distribution Upstream Outage, Distribution Vegetation Caused Upstream Outage, 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 Caused Upstream Outage, and Risk Event Asset Log feature classes and related tables. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
8	MSRA	Data Request No. 1	MSRA_Data Request No. 1	5	MSRA_Data Request No. 1_05	Please provide photo data for Risk Events.	PG&E does not have any non-confidential or non-privileged photo data provided in response to this request. The photos provided 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 CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
8	MSRA	Data Request No. 1	MSRA_Data Request No. 1	5(b)	MSRA_Data Request No. 1_05(b)	Please provide photo data for Risk Events.	PG&E does not have any non-confidential or non-privileged photo data provided in response to this request. The photos provided 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 CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
9	MSRA	Data Request No. 1	MSRA_Data Request No. 1	6	MSRA_Data Request No. 1_06	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this item.	In response to this request, PG&E is providing non-confidential data for the System Hardening, Bule County Rural, and Grid Hardening Point and Grid Hardening Line feature classes and related tables. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
9	MSRA	Data Request No. 1	MSRA_Data Request No. 1	6(b)	MSRA_Data Request No. 1_06(b)	Under Initiatives, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this item.	In response to this request, PG&E is providing non-confidential data for the System Hardening, Bule County Rural, and Grid Hardening Point and Grid Hardening Line feature classes and related tables. Additional initiative projects reported in these feature classes includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
10	MSRA	Data Request No. 1	MSRA_Data Request No. 1	7	MSRA_Data Request No. 1_07	Under Initiatives, please provide Other Initiative data for port, 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 this feature class and related tables includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These items are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
10	MSRA	Data Request No. 1	MSRA_Data Request No. 1	7(b)	MSRA_Data Request No. 1_07(b)	Under Initiatives, please provide Other Initiative data for port, 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 this feature class and related tables includes data on where PG&E has implemented, or plans to implement, or ESC&A enabled work has been performed, and where future work is planned to take place. These items are confidential CEII because they reveal physical facility and critical infrastructure locations. As such, these have been removed from the response.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
11	MSRA	Data Request No. 1	MSRA_Data Request No. 1	8	MSRA_Data Request No. 1_08	Under Other Required Data, please provide Red Flag Warning polygon data.	PG&E is providing the Red Flag Warning polygon data, as requested by MSRA.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
11	MSRA	Data Request No. 1	MSRA_Data Request No. 1	8(b)	MSRA_Data Request No. 1_08(b)	Under Other Required Data, please provide Red Flag Warning polygon data.	PG&E is providing the Red Flag Warning polygon data, as requested by MSRA.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
12	MSRA	Data Request No. 1	MSRA_Data Request No. 1	9	MSRA_Data Request No. 1_09	Please provide a layer indicating calculated circuit-level risk using the methodology presented in the WMP.	The method described in the 2023 WMP to aggregate model results is conducted to produce a circuit segment level risk value but it is not used to produce a circuit level risk value. However, the geospatial representation of circuit segments that would be provided in response to the data request involves the identification of CEII, which we are required by law to maintain as confidential and cannot provide without the requesting party agreeing to protect the information through a non-disclosure agreement.	Joseph Michal	3/29/2023	4/10/2023	4/7/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
12	MSRA	Data Request No. 1	MSRA_Data Request No. 1	9(b)	MSRA_Data Request No. 1_09(b)	Please provide a layer indicating calculated circuit-level risk using the methodology presented in the WMP.	The method described in the 2023 WMP to aggregate model results is conducted to produce a circuit segment level risk value but it is not used to produce a circuit level risk value. However, the geospatial representation of circuit segments that would be provided in response to the data request involves the identification of CEII, which we are required by law to maintain as confidential and cannot provide without the requesting party agreeing to protect the information through a non-disclosure agreement.	Joseph Michal	3/29/2023	4/13/2023	4/13/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	1	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
13	CaPA	Sat WMP-08	CaPA_Sat WMP-08	1	CaPA_Sat WMP-08_01	PG&E's WMP status: The EVM Program concluded at the end of 2022. PG&E will continue to strengthen our existing WMP programs. PG&E is implementing the maintenance of enhanced clearances that were achieved in EVM to Resilience (VM) assets. The established routine maintenance requirements for electric distribution circuits where EVM scope clearances have been performed in HFTD designated areas) and passed to work verification. a) Please describe how PG&E intends to strengthen its other existing WMP programs as stated above. b) Does PG&E intend to achieve enhanced clearances in areas where they have not previously been achieved through EVM, or is 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: 1) Identifying which assets and/or locations need enhanced clearances 2) Identifying which areas to focus in a given project location 3) Identifying the clearance and inspection of enhanced clearances projects 4) Setting the schedule and sequence of enhanced clearance projects d) If PG&E only intends to maintain existing enhanced clearances, please explain why.	a) PG&E is extending the minimum clearance recommendations of 12 feet in HFTD per G.O. 35 Rule 35, Appendix E) to 2 feet when EVM. 2) There is an anticipated increase of fire network in time with the fast closure of action recommended at time of being per the Distribution Vegetation Inspection Procedure (DVIP). Funding has been provided to occur to increased removal. 3) There are further controls through reports and monitoring of work completion. b) PG&E will maintain clearances where EVM work occurred. PG&E will also be presenting a minimum radial clearance of 12 feet around the power lines and HFTD. For new programs, Vegetation Management for Operational Resilience (VMOR) and Focused Tree Inspection, we likely to result in individual trees that warrant enhanced clearances. 1) We intend to implement these programs. These programs focus on clearances that are available through site and forest, as well as site and tree specific conditions, which are called out as uniform scope, clearances in portions of these targeted asset segments have been submitted to EVM. c) 1) Applying the recommendation of 12 feet minimum clearance in HFTD(HRA), at time of item 2) Doubling which we intend to implement these programs. These programs focus on clearances that are available through site and forest, as well as site and tree specific conditions, which are called out as uniform scope, clearances in portions of these targeted asset segments have been submitted to EVM. d) 1) Based on specific ADC output analysis of species and failure types when available. 2) Based on analysis of outage data and trends by ADC. Additionally, we use which we use MDR, will allow the MDR to define next work completion cycle as a warning sign of imminent failure before next work completion cycle. 3) Minimum of 12 feet minimum clearance or enough resources to mitigate risk to failure in less than 6 hours or more. 4) Failure work to occur. e) PG&E prioritizes enhanced 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.	Holly Waltham	3/30/2023	4/5/2023	4/5/2023	https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf https://www.pge.com/content/dam/assets/documents/wildlife-distribution-risk-model-2022-01-01.pdf	0	NA	8.2.2.2.6	Vegetation Management and Inspections	Discouraged Programs

Row ID	Agency	Project Name	Section	Page	Project Title	Start Date	End Date	Review Date	Priority	Status	Notes		
14	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	2	CaPIA_Sat WMP-08_02	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
15	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	3	CaPIA_Sat WMP-08_03	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.3	Vegetation Management and Inspections	VM for Operational Mitigations
16	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	4	CaPIA_Sat WMP-08_04	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
17	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	5	CaPIA_Sat WMP-08_05	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Fail-In Migration
18	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	6	CaPIA_Sat WMP-08_06	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Fail-In Migration
19	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	7	CaPIA_Sat WMP-08_07	3/30/2023	4/30/2023	4/30/2023	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Inherm Migration Initiatives
20	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	8	CaPIA_Sat WMP-08_08	3/30/2023	4/30/2023	4/30/2023	0	NA	7.2.3	Wildfire Mitigation Strategy Development	Inherm Migration Initiatives
21	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	9	CaPIA_Sat WMP-08_09	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.4	Vegetation Management and Inspections	Tree Removal Inventory
22	CAPIA	Sat WMP-08	CaPIA_Sat WMP-08	10	CaPIA_Sat WMP-08_10	3/30/2023	4/30/2023	4/30/2023	0	NA	8.2.2.5	Vegetation Management and Inspections	Focused Tree Inspections

116	CaPA	Sat WMP-13	CaPa_Sat WMP-13	3	CaPa_Sat WMP-13_03	<p>Table 7-3-1 on p. 281 of PG&E's WMP states the following objective with an estimated completion date of 12/31/2022:</p> <p>Develop process of certifying constraints resolution. As part of the build-out of the centralized constraints team, these major categories will be addressed: customer constraints, environmental constraints (including stream PGE procedures required to perform work) and permitting constraints (including both Land and Environmental permits).</p> <p>These describe the benefits PG&E plans to realize to centralize customer constraints.</p> <p>These describe the process PG&E plans to take to centralize environmental constraints.</p> <p>These describe the process PG&E plans to take to centralize permitting constraints.</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.2.6	Vegetation Management and Inspections	Open Work Orders
117	CaPA	Sat WMP-13	CaPa_Sat WMP-13	4	CaPa_Sat WMP-13_04	<p>Table 7-3-1 on p. 282 of PG&E's WMP states the following objective with an estimated completion date of 12/31/2022:</p> <p>For each major constraint category build a process for addressing each constraint type, implement the new process, and create metrics to track each constraint type.</p> <p>When does PG&E expect to begin implementing the process for centralizing customer constraints?</p> <p>When does PG&E expect to begin implementing the process for centralizing environmental constraints?</p> <p>When does PG&E expect to begin implementing the process for centralizing permitting constraints?</p> <p>What is the earliest date PG&E expects to begin realizing benefits (e.g. reduced time to resolve constraints) as a result of the objective stated above?</p> <p>Why does PG&E expect that it will take until December 2023 to achieve the objective in the passage quoted above?</p> <p>Between now and December 2023, how is PG&E addressing each constraint type?</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.2.6	Vegetation Management and Inspections	Open Work Orders
118	CaPA	Sat WMP-13	CaPa_Sat WMP-13	5	CaPa_Sat WMP-13_05	<p>Table 7-4 on pp. 307-313 of PG&E's WMP lists the top five critical segments (i.e., habitat segments when sorted by wildfire risk).</p> <p>Of the values in the column entitled "Jan. 1, 2024 Overall Risk" across for risk reduction associated with EPSS: "Please explain how PG&E qualified the risk reduction associated with EPSS for each of the circuit segments in Table 7-4."</p> <p>Of the values in the column entitled "Jan. 1, 2024 Overall Risk" across for risk reduction associated with EPSS: "Please explain how PG&E qualified the risk reduction associated with EPSS for each of the circuit segments in Table 7-4."</p> <p>Of the values in the column entitled "Jan. 1, 2024 Overall Risk" across for risk reduction associated with EPSS: "Please explain how PG&E qualified the risk reduction associated with EPSS for each of the circuit segments in Table 7-4."</p> <p>Of the values in the column entitled "Jan. 1, 2024 Overall Risk" across for risk reduction associated with EPSS: "Please explain how PG&E qualified the risk reduction associated with EPSS for each of the circuit segments in Table 7-4."</p> <p>Of the values in the column entitled "Jan. 1, 2024 Overall Risk" across for risk reduction associated with EPSS: "Please explain how PG&E qualified the risk reduction associated with EPSS for each of the circuit segments in Table 7-4."</p>	Holly Wetteman	4/8/2023	4/8/2023	4/8/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	1	NA	7.2.3	Wildfire Mitigation Strategy Development	Promoted Risk Reduction on High-Voltage Circuits Over the 3-Year WMP Cycle
119	CaPA	Sat WMP-13	CaPa_Sat WMP-13	6	CaPa_Sat WMP-13_06	<p>Table PG&E 6.2-2.1 on p. 188 of PG&E's WMP lists four consequence values derived from the mean MAF of historical fires.</p> <p>How does PG&E perform a sensitivity analysis to determine the effect of these values on the output of PG&E's WRF model? A sensitivity analysis could involve (for example) perturbations to how the mean MAF of historical fires is determined or which historical fires are included in the calculation.</p> <p>If the answer to part (a) is yes, please summarize the results of this sensitivity study. If the answer to part (a) is no, please explain why not. If the answer to part (a) is no, does PG&E plan to conduct a study or analysis similar to what is described in part (a)?</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	6.2.2.2	Risk Methodology and Assessment	Consequence
120	CaPA	Sat WMP-13	CaPa_Sat WMP-13	7	CaPa_Sat WMP-13_07	<p>In section 7.2.1 on pp. 275-276 of PG&E's WMP, PG&E states: "We determined that EPSS is more effective at mitigating wildfire risk at a lower cost or by down to completing the RSEs for the two programs at the time we filed the 2023 DRIC. The RSE for EVM has 143 compared to the RSE of 10.7."</p> <p>EPSS is a reactive mitigation program compared to EVM which is proactive. Does this reactive vs. proactive difference have any impact on PG&E's conclusions to transition away from EVM?</p> <p>How does PG&E's RSE estimate for EPSS take into account the negative volatility impacts on customers?</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Overview of Mitigation Initiatives and Activities
121	CaPA	Sat WMP-13	CaPa_Sat WMP-13	8	CaPa_Sat WMP-13_08	<p>For each of the following programs, what metrics does PG&E track to validate their impact and effectiveness at mitigating the impacts of PSPS events?</p> <p>Temporary Distribution Reliability</p> <p>Community Managed Enrollment Program</p> <p>Managed Inservice Program</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.7	Grid Design and System Hardening	Microgrids
122	CaPA	Sat WMP-13	CaPa_Sat WMP-13	9	CaPa_Sat WMP-13_09	<p>Do the following programs have any impact on customer reliability (e.g. frequency or duration of outages) in general? Please explain your response to each program.</p> <p>Temporary Distribution Reliability</p> <p>Community Managed Enrollment Program</p> <p>Managed Inservice Program</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.7	Grid Design and System Hardening	Microgrids
123	CaPA	Sat WMP-13	CaPa_Sat WMP-13	10	CaPa_Sat WMP-13_10	<p>Figure 7-1 on p. 298 shows a sharp decline in risk after 2026.</p> <p>Are these models correct or do you think the decline is overstated?</p> <p>Why does PG&E anticipate a significantly more rapid rate of decline in residual risk after 2026 than in the 2022-2026 period?</p>	Holly Wetteman	4/8/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	7.2.1	Wildfire Mitigation Strategy Development	Projected Overall Risk Reduction
124	CaPA	Sat WMP-14	CaPa_Sat WMP-14	1	CaPa_Sat WMP-14_01	<p>If 341 of PG&E's WMP-14 values (regarding PG&E's undergrounding program) "Among other benefits, the reduced pace (as compared to prior projections) will decrease costs in the later years of the program." Please list the "other benefits" referenced in the quote above.</p>	Holly Wetteman	4/12/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
125	CaPA	Sat WMP-14	CaPa_Sat WMP-14	2	CaPa_Sat WMP-14_02	<p>If 341 of PG&E's WMP-14 values (regarding PG&E's undergrounding program) "Among other benefits, the reduced pace (as compared to prior projections) will decrease costs in the later years of the program." Please list the "other benefits" referenced in the quote above.</p>	Holly Wetteman	4/12/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.6.1	Grid Design and System Hardening	Distribution, Transmission, and Substation: Fire Action Schemes and Technology
126	CaPA	Sat WMP-14	CaPa_Sat WMP-14	3	CaPa_Sat WMP-14_03	<p>If 341 of PG&E's WMP-14 values (regarding PG&E's undergrounding program) "Among other benefits, the reduced pace (as compared to prior projections) will decrease costs in the later years of the program." Please list the "other benefits" referenced in the quote above.</p>	Holly Wetteman	4/12/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.6.2	Grid Design and System Hardening	Breakaway Connector
127	CaPA	Sat WMP-14	CaPa_Sat WMP-14	4	CaPa_Sat WMP-14_04	<p>If 339 of PG&E's WMP-14 values (regarding PG&E's undergrounding program) "Among other benefits, the reduced pace (as compared to prior projections) will decrease costs in the later years of the program." Please list the "other benefits" referenced in the quote above.</p>	Holly Wetteman	4/12/2023	4/12/2023	4/12/2023	<p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p> <p>https://www.pge.com/content/dam/pge/customer-service/centralized-constraints-team/centralized-constraints-team-implementation-plan-2022-2023.pdf</p>	0	NA	8.1.2.6.2	Grid Design and System Hardening	Breakaway Connector

142	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	19	CaPA_Sat WMP-14_019	<p>Please provide a list of all dig-in incidents that occurred from 2020-2022 and involved an underground electric distribution line. For each incident, please provide:</p> <ul style="list-style-type: none"> a) Date of incident b) Whether the dig-in was caused by PG&E employees, PG&E contractors, or a third party c) Cause of the incident d) Injuries associated with the dig-in, if any e) Facilities associated with the dig-in, if any f) Damage to non-PG&E structures associated with the dig-in, if any. 	Holly Wetmore	4/1/2023	4/28/2023	4/28/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/underground-distribution-line-dig-in-incident-report-2020-2022.pdf</p>	1	NA	8.4.2.1	Emergency Preparedness	Overview of Wildfire and PSES
143	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	20	CaPA_Sat WMP-14_020	<p>a) During the period from 2020-2022, did PG&E replace any distribution poles as part of its WMP activities for which PG&E had not fully recovered the original cost of the pole?</p> <p>b) If 2022, how many gallons did PG&E expense related to overhead bare conductor distribution lines?</p> <p>c) If the answer to part (a) is yes, please provide the number of such poles PG&E replaced.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/overhead-bare-conductor-distribution-lines-2020-2022.pdf</p>	0	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements
144	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	21	CaPA_Sat WMP-14_021	<p>a) During the period from 2020-2022, did PG&E replace any distribution conductors as part of its WMP activities for which PG&E had not fully recovered the original cost of the conductor? This may include upgrading a conductor, hardware, line, or insulator.</p> <p>b) If the answer to part (a) is yes, what was PG&E's practice regarding cost recovery on the unrecovered portion of the pole and conductor?</p> <p>c) If the answer to part (a) is yes, please provide the number of circuit miles of such conductor that PG&E replaced.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/distribution-conductor-replacement-2020-2022.pdf</p>	0	NA	8.1.2.5.2	Grid Design and System Hardening	Traditional Overhead Hardening - Distribution
145	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	22	CaPA_Sat WMP-14_022	<p>a) During the period from 2020-2022, did PG&E replace any distribution transformers as part of its WMP activities for which PG&E had not fully recovered the original cost of the transformer?</p> <p>b) If the answer to part (a) is yes, what was PG&E's practice regarding cost recovery on the unrecovered portion of the value associated with the replaced transformer?</p> <p>c) If the answer to part (a) is yes, please provide the number of such transformers that PG&E replaced.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/distribution-transformer-replacement-2020-2022.pdf</p>	0	NA	8.1.4.1	Equipment Maintenance and Repair	Transformers
146	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	23	CaPA_Sat WMP-14_023	<p>a) In 2022, PG&E observed 1 PG&E responsible ignition associated with overhead secondary distribution lines?</p> <p>b) In 2022, how many gallons did PG&E expense related to overhead secondary distribution lines?</p> <p>c) In 2022, how many gallons did PG&E expense related to underground distribution lines?</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/overhead-secondary-distribution-lines-2022.pdf</p>	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increase in Risk Events
147	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	24	CaPA_Sat WMP-14_024	<p>a) In 2022, PG&E observed 44 PG&E responsible ignitions associated with overhead secondary facilities.</p> <p>b) In 2022, PG&E observed 14 PG&E responsible ignitions associated with overhead distribution service facilities.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/overhead-secondary-facilities-2022.pdf</p>	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E-22-06 - Addressing Increase in Risk Events
148	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	25	CaPA_Sat WMP-14_025	<p>a) PG&E's 2022 Joint Annual Report to Shareholders states: "On October 26, 2022, the Utility notified the CPUC that the Utility's procedure for wood pole replacements did not comply with the CPUC's requirements for replacement of certain conductors and, accordingly, it intends to revise the Utility's procedure to replace wood poles with safety factors before the required minimum 50 years." b) Describe the population of wood poles that had not received inspection in accordance with GO 150's deadline due to the specific non-compliance referenced in the statement. The Utility's procedure for wood pole replacements did not comply with CPUC requirements for replacement of certain conductors." c) List the corrective actions PG&E has implemented to remediate the non-compliance described in its self-report.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/wood-pole-replacements-2022.pdf</p>	1	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements
149	CAIPA	Sat WMP-14	CaPA_Sat WMP-14	26	CaPA_Sat WMP-14_026	<p>a) PG&E's 2022 Joint Annual Report to Shareholders states: "On September 22, 2022, the CPUC notified the Utility that it had identified a population of wood poles that had not received inspection in accordance with GO 150's deadline due to the specific non-compliance referenced in the statement. The Utility's procedure for wood pole replacements did not comply with CPUC requirements for replacement of certain conductors." b) Describe the population of wood poles that had not received inspection in accordance with GO 150's deadline due to the specific non-compliance referenced in the statement. The Utility's procedure for wood pole replacements did not comply with CPUC requirements for replacement of certain conductors." c) List the corrective actions PG&E has implemented to remediate the non-compliance described in its self-report.</p>	Holly Wetmore	4/1/2023	4/17/2023	4/17/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/wood-pole-replacements-2022.pdf</p>	1	NA	8.1.2.3	Grid Design and System Hardening	Distribution Pole Replacements and Reinforcements
150	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	1	CaPA_Sat WMP-15_01	<p>PG&E issues in response to Question 1 (b) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
151	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	2	CaPA_Sat WMP-15_02	<p>PG&E issues in response to Question 1 (c) (ii) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
152	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	3	CaPA_Sat WMP-15_03	<p>PG&E issues in response to Question 1 (c) (iii) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Tree Removal Inventory
153	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	4	CaPA_Sat WMP-15_04	<p>PG&E issues in response to Question 1 (c) (iv) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Discontinued Programs
154	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	5	CaPA_Sat WMP-15_05	<p>PG&E issues in response to Question 1 (c) (v) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Tree Removal Inventory
155	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	6	CaPA_Sat WMP-15_06	<p>PG&E issues in response to Question 1 (c) (vi) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Tree Removal Inventory
156	CAIPA	Sat WMP-15	CaPA_Sat WMP-15	7	CaPA_Sat WMP-15_07	<p>PG&E issues in response to Question 2 (ii) of California's PG&E-2022WMP-08 PG&E will monitor clearances where it has an interest. PG&E will also be providing a minimum radial clearance of 12 feet throughout the system with HTFD and HFPA. The new programs, Vegetation Management for Operational Mitigation (VMO) and Focused Tree Inspections (FTI), are being implemented to address the current clearance issues. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions. VMO and Focused Tree Inspections are being implemented based on available outage data and trends, as well as site and tree specific conditions.</p>	Holly Wetmore	4/1/2023	4/14/2023	4/14/2023	<p>https://www.pge.com/content/dam/pg&e/customer-service/vegetation-management-for-operational-mitigation-2022.pdf</p>	0	NA	8.2.2.6	Vegetation Management and Inspections	Tree Removal Inventory

233	CAIPA	Set WMP-17	CAIPA_Set WMP-17-02	2	CAIPA_Set WMP-17-02	In general, identify all the factors PG&E considers when deciding that a CPZ with a large average risk profile or large total risk in WDRM V3 should be prioritized in 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 leverages WDRM V3 risk data, to prioritize for project selection. As part of the WFE analysis, for operational efficiency, individual Critical Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together, an adjacent CPZ that was also identified for targeted undergrounding, the combined bundled WFE score is 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 projects 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> <ol style="list-style-type: none"> 1. Provides continuity with other projects to minimize re-work, temporary facilities, and allows for a more complete design solution. 2. Allows for more efficient P&SP and E&SP benefits by bundling nearby segments together. 3. Provides for more comprehensive, consistent and community engagement as opposed to multiple projects being developed sequentially, our workplan as presented in the 2023 WMP was developed using numerous factors that could cause a particular project to be prioritized for project selection. 4. Due to the typically long timelines required to develop and construct an underground project, 2022 WDRM V3 risk data was WFE only externally informed the early years in the 2023-2025 estimates with much of the portfolio being informed by 2021 WDRM V3. 5. This approach is to carry over work from previous workplans that must be completed. If a project had been started in a prior period it will be worked to completion. 6. The WFE selection strategy utilizing WDRM V3 takes various cost and schedule optimization inputs into its selection methodology including: <ul style="list-style-type: none"> - Area selection - Underground difficulty and long-term permitting risks - Circuit segment bundling - Resource readiness and availability - Previously hardened facilities - Privatization-related facilities 	Matthew Tait	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
234	CAIPA	Set WMP-17	CAIPA_Set WMP-17-03	3	CAIPA_Set WMP-17-03	In general, identify all the factors PG&E considers when deciding that a CPZ with small total risk profile and small average risk profile in WDRM V3 should be prioritized in PG&E's 2023 WMP project selection.	<p>As of our review, we respectfully find that the CPZ mitigates presented in Table 2 are accurate. As a result of the mitigates presented in the Table, the Calculated Risk/Mile figures are corrected as well. We also note that we do not use the term "cumulative risk" but use the term "cumulative risk" and instead the question involving "cumulative risk" across any influence between these two terms is not relevant to our response.</p> <p>The estimated risk for the CPZs in WDRM V3 is not relevant to our response.</p> <p>The CPZs that represent the total OH miles combined within each circuit segment, but the total project US miles from the CPZs are not relevant to our response. Our response to this question is to include multiple circuit segments and represent the total US miles to be installed. The OH miles remained used to calculate the risk value. Each of the segments referenced in this question were bundled together for project selection. Annual such that undergrounding early in the program allows for better resource cost effectiveness and will provide a larger benefit in terms of reduced P&SP/E&SP risks as well. Therefore, the analysis performed here in terms of miles for a single circuit segment is not relevant to our response.</p> <p>Our bundled project (which includes multiple circuit segments) is not a complete cost/benefit and decommission. It is a project that includes multiple circuit segments with a total risk value of 2.08, and a total average risk value of 0.28. This project is a high risk project with a relatively low difficulty score (1.0) is a very cost efficient, especially when combined with other nearby mile segments.</p> <p>1) Straniska 1702188 is a 1.5 mile segment, with a mean risk value of 379, and is well within the top 20% of the circuit segments. It is a high risk project with a relatively low difficulty score (1.17) is a very cost efficient, especially when combined with other nearby mile segments. This segment was combined into an operationally efficient bundle. Additionally, total segment value as a separate other segment planned for undergrounding to take years coming during the life of the primary construction project. Annual such that undergrounding early in the program allows for better resource cost effectiveness and will provide a larger benefit in terms of reduced P&SP/E&SP risks as well. Therefore, the analysis performed here in terms of miles for a single circuit segment is not relevant to our response.</p> <p>2) The CPZs that represent the total OH miles combined within each circuit segment, but the total project US miles from the CPZs are not relevant to our response. Our response to this question is to include multiple circuit segments and represent the total US miles to be installed. The OH miles remained used to calculate the risk value. Each of the segments referenced in this question were bundled together for project selection. Annual such that undergrounding early in the program allows for better resource cost effectiveness and will provide a larger benefit in terms of reduced P&SP/E&SP risks as well. Therefore, the analysis performed here in terms of miles for a single circuit segment is not relevant to our response.</p> <p>3) Straniska 1702188 was brought forward for inclusion in the currently scoped workplan due to our bundling strategy to provide efficient segments, improve field operational efficiency, consistent with the community, and overall save design costs, as discussed in the response to Question 1 above.</p> <p>4) Bundling feasibility approach to improve the total risk analysis for each of the three circuit segments. We have included this information in the response to Question 1 of this data request.</p> <p>5) See the response to Question 1.</p> <p>6) See the response to Question 1.</p>	Matthew Tait	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
235	CAIPA	Set WMP-17	CAIPA_Set WMP-17-04	4	CAIPA_Set WMP-17-04	In general, identify all the factors PG&E considers when deciding that a CPZ with small total risk profile and small average risk profile in WDRM V3 should be prioritized in 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 leverages WDRM V3 risk data, to prioritize for project selection. As part of the WFE analysis, for operational efficiency, individual Critical Protection Zones (CPZs) were bundled together for project selection and design. Once bundled together, an adjacent CPZ that was also identified for targeted undergrounding, the combined bundled WFE score is 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 projects 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> <ol style="list-style-type: none"> 1. Provides continuity with other projects to minimize re-work, temporary facilities, and allows for a more complete design solution. 2. Allows for more efficient P&SP and E&SP benefits by bundling nearby segments together. 3. Provides for more comprehensive, consistent and community engagement as opposed to multiple projects being developed sequentially, our workplan as presented in the 2023 WMP was developed using numerous factors that could cause a particular project to be prioritized for project selection. 4. Due to the typically long timelines required to develop and construct an underground project, 2022 WDRM V3 risk data was WFE only externally informed the early years in the 2023-2025 estimates with much of the portfolio being informed by 2021 WDRM V3. 5. This approach is to carry over work from previous workplans that must be completed. If a project had been started in a prior period it will be worked to completion. 6. The WFE selection strategy utilizing WDRM V3 takes various cost and schedule optimization inputs into its selection methodology including: <ul style="list-style-type: none"> - Area selection - Underground difficulty and long-term permitting risks - Circuit segment bundling - Resource readiness and availability - Previously hardened facilities - Privatization-related facilities <p>1) PG&E Public Safety Specialist PG&E PSS team members with extensive, local wildlife operations experience. Many had a previous career with CAL FIRE or other fire agencies.</p> <p>2) FSD - Field Support Division Meeting. Meeting to review potential undergrounding project sites held in office as requested to the field.</p> <p>3) E&SP - Economic Analysis Software Program. Program used by PG&E to evaluate project economics. A DEC - Decision Committee - makes decisions about developing and prioritizing projects.</p> <p>4) WGC - Wildlife Governance Committee. Also referred to as PG&E's Wildlife Risk Governance Steering Committee.</p> <p>5) WDRM - Wildlife Damage Risk Model. Used to estimate the risk of wildlife damage to infrastructure.</p> <p>6) EDCO - Electric Circuit Optimization Program. This program conducts existing open electric work when prioritizing projects for undergrounding.</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
236	TURN	006	TURN_006	1	TURN_006_Q1	Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 1, please define the following acronyms used in the Decision Tree: P&SP E&SP WDRM E&SP	<p>1) P&SP - Planning and Scheduling 2) E&SP - Economic Analysis Software Program 3) WDRM - Wildlife Damage Risk Model 4) E&SP - Electric Circuit Optimization Program</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
237	TURN	006	TURN_006	2	TURN_006_Q2	Regarding the System Hardening Decision Tree provided as Attachment 3 to the response to TURN data request 1, and discussed in that response, please define the following acronyms used in the Decision Tree for future projects during the 2023-2025 period for selecting which system hardening mitigation to apply a given location? If the answer is "A" anything other than an operational "no," please explain each and every circumstance under which PG&E intends to use this Decision Tree for future projects.	<p>1) P&SP - Planning and Scheduling 2) E&SP - Economic Analysis Software Program 3) WDRM - Wildlife Damage Risk Model 4) E&SP - Electric Circuit Optimization Program</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
238	TURN	006	TURN_006	3	TURN_006_Q3	Regarding the Undergrounding Decision Tree provided as Attachment 1 to the response to TURN data request 1, and discussed in that response, please provide a term range in months for each of the "Key Phases" listed in the box in the lower left corner. Please explain how PG&E defines the words "feasible," as used in the text of the response related to the possibility that undergrounding may ultimately be determined to be "infeasible" and "unfeasible" as used in the Decision Tree.	<p>1) Feasible - The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements.</p> <p>2) Unfeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p> <p>3) Infeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
239	TURN	006	TURN_006	4	TURN_006_Q4	Regarding the Fire Related Decision Tree provided as Attachment 2 to the response to TURN data request 1, and discussed in that response, please define the following acronyms used in the Decision Tree: P&SP E&SP WDRM E&SP	<p>1) P&SP - Planning and Scheduling 2) E&SP - Economic Analysis Software Program 3) WDRM - Wildlife Damage Risk Model 4) E&SP - Electric Circuit Optimization Program</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
240	TURN	006	TURN_006	5	TURN_006_Q5	Regarding the response to TURN data request 4, please explain the following terms used in the last paragraph of that response: 1) "feasible" 2) "unfeasible" 3) "infeasible"	<p>1) Feasible - The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements.</p> <p>2) Unfeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p> <p>3) Infeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
241	TURN	006	TURN_006	6	TURN_006_Q6	Regarding the response to TURN data request 5, please explain the following terms used in the last paragraph of that response: 1) "feasible" 2) "unfeasible" 3) "infeasible"	<p>1) Feasible - The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements. The cost/benefit analysis indicates that the project is economically viable and meets all regulatory requirements.</p> <p>2) Unfeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p> <p>3) Infeasible - The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements. The cost/benefit analysis indicates that the project is not economically viable and does not meet all regulatory requirements.</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
242	TURN	007	TURN_007	1	TURN_007_Q1	Regarding the 2023-2025 Undergrounding Mitigation referenced on page 910 of the WMP (P1) and provided in Excel format in response to TURN Data Request 4: 1) Please explain how, if at all, either of the Empirical Wildlife Risk Spurred Efficiency (SWRSE) or Wildlife Feasibility Effectiveness (WFE) values (discussed on page 908 of the WMP (P1)) were used in developing the workplan. Please explain what measures PG&E used to prioritize projects in this workplan and how such measures) were used. 2) Please add to the Excel spreadsheet columns showing the SWRSE and WFE for each listed circuit segment. 3) Comparing the Workplan with Table 7.2 of the WMP, please explain how the WFD miles in Table 7.2 for a given circuit segment relate to the Planned US Miles in Columns 4 through 6A of the Undergrounding Workplan. For example, the second highest total circuit segment in Table 7.2, Straniska 1702188, is shown to be 10.5 miles, but the Undergrounding Workplan shows projects to be 232-2025 totaling only 0.8 miles. Please explain all of the reasons for the miles in the Undergrounding Workplan being only 0.8 miles in Table 7.2 for a given circuit segment, while the total miles in the Undergrounding Workplan are 232-2025 totaling 0.8 miles in segment, why the planned undergrounding mileage only accounts a small portion of the mileage identified in Table 7.2.	<p>1) The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan.</p> <p>2) The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan.</p> <p>3) The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan. The SWRSE and WFE values were used to prioritize projects in the workplan.</p>	Tom Long	4/10/2023	4/26/2023	4/26/2023	1	Yes	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

270	CAIQA	Sat WMP-19	CaIQA_Sat WMP-19	12	CaIQA_Sat WMP-19_012	<p>a) The delay was due to this being primarily impacted upon our legacy inspection system, which did not release prevention records until the inspection project was closed, resulting in the prevention records not being captured in the legacy inspection system. Inspection projects were created with a finite volume of jobs (generally between 100 and 200 jobs) and the project volume was not increased as the project risk evolved. Due to this finite volume and other constraints, it was not unusual for projects to remain open for multiple months.</p> <p>b) An advantage of the new legacy inspection system is that it allows for the creation of multiple inspection projects on the updated inspection application, which allows inspection records in real time and create corrective action notifications on the same day as the inspection.</p> <p>c) We did not take any remedial action on this issue between November 18, 2019 and January 14, 2020.</p> <p>d) Please reference WMP-Chicago2023_DR_CaIQA/CAIQA_019-02015ASST/CONF.pdf for our internal PG&E investigation from May 2022.</p> <p>e) Please reference WMP-Chicago2023_DR_CaIQA/CAIQA_019-02015ASST/CONF.pdf for our internal PG&E investigation from May 2022.</p> <p>f) Specifically, the references are found on Slide number 16. We clarify that "prevention is available" refers to expected condition results on health performance information. Actual condition of the assets such as their physical assessment, loading conditions, inspection results, etc. may adjust the useful life. The language was provided to show, on a high level, where we may need to focus attention on asset renewal efforts.</p> <p>g) Please reference WMP-Chicago2023_DR_CaIQA/CAIQA_019-02015ASST/CONF.pdf included in part (a) of this response.</p>	Holly Wetman	4252003	4262003	4262003	0	NA	8.1.3.2.3	Asset Inspection	Intrinsic Pole Inspectors
271	CAIQA	Sat WMP-19	CaIQA_Sat WMP-19	13	CaIQA_Sat WMP-19_013	<p>The PG&E Independent Safety Member Status Review by Fluor Energy Partners on October 4, 2022, (IQR) states:</p> <p>During the control, the ISM reviewed data provided by PG&E related to PG&E Underground Transmission assets and the average age of certain PG&E Underground Transmission assets. For example, 62% of the one type of underground transmission cable is beyond its useful life (UL).</p> <p>Footnote 18 states, "Internal PG&E Report"</p> <p>Pages 6 of the ISM report further states, "PG&E also states in an internal report published in May 2022 that underground transmission provides a low-risk asset."</p> <p>a) Please provide a copy of the internal PG&E report referenced in footnote 18.</p> <p>b) Please reference WMP-Chicago2023_DR_CaIQA/CAIQA_019-02015ASST/CONF.pdf for our internal PG&E investigation from May 2022.</p>	Holly Wetman	4252003	4262003	4262003	1	NA	8.1.2.5	Grid Design and System Hardening	Traditional Overhead Hardening - Transmission Control and Distribution
272	CAIQA	Sat WMP-19	CaIQA_Sat WMP-19	14	CaIQA_Sat WMP-19_014	<p>On April 10, 2023, CalAdvocates met with a Senior Director of Grid Research, Innovation and Development at PG&E. During this meeting, PG&E stated that REFC is not a viable product.</p> <p>a) Does the above statement accurately reflect PG&E's current assessment of REFC? Please explain your answer.</p> <p>b) If the answer is part (a) is yes, please state all the reasons why PG&E believes REFC is not a viable product.</p>	Holly Wetman	4252003	4262003	4262003	0	NA	8.1.1.3.1	Grid Design, Operations, and Maintenance	8.1.1.3.1 Rapid Earth Fault Current Limiter
273	CAIQA	Sat WMP-19	CaIQA_Sat WMP-19	15	CaIQA_Sat WMP-19_015	<p>a) PG&E is actively analyzing the effectiveness of Covered Conductor (CC) in combination with EPSS and OCCDP. In addition, we are actively analyzing the effectiveness of Bare Conductor (BC) in combination with EPSS and OCCDP. PG&E in the initial phases of these two studies and intends to use the results to compare the effectiveness of CC and BC. As needed the response to subpart (a) will be updated. We have not done any analysis previously, as 2022 was the first year of in-service data available. While CC is viable as an alternative to BC, we have not done any analysis previously, as 2022 was the first year of in-service data available. While CC is viable as an alternative to BC, we have not done any analysis previously, as 2022 was the first year of in-service data available. While CC is viable as an alternative to BC, we have not done any analysis previously, as 2022 was the first year of in-service data available.</p> <p>b) We have no records (2023) regarding the analysis. At this time, a completion date for the analysis has not been established and is anticipated to be completed in 2023.</p> <p>c) In alignment with the response to subpart (a), we do not yet have results from an analysis or study as requested, so there are no reports, workshops, or other work products at this time. We anticipate completing these two studies by the end of 2023. The analysis will also inform our planned filing of the SBSSA 10 Year Undergrounding Plan.</p>	Holly Wetman	4252003	4262003	4262003	0	NA	8.1.2	Grid Design and System Hardening	Ventus
274	CAIQA	Sat WMP-19	CaIQA_Sat WMP-19	16	CaIQA_Sat WMP-19_016	<p>a) We have not performed a similar analysis of covered conductor (CC) with the same methodology as used in Table 7. b) Not applicable.</p> <p>c) We did not conduct a similar analysis of the combined effectiveness of covered conductor, asset inspections, and several WMP programs based on Figure 4, Table 6 and Table 7 in the Joint IOU Covered Conductor Working Group Report. However, we did conduct a similar analysis of the combined effectiveness of covered conductor, asset inspections, and several WMP programs based on Figure 4, Table 6 and Table 7 in the Joint IOU Covered Conductor Working Group Report. However, we did conduct a similar analysis of the combined effectiveness of covered conductor, asset inspections, and several WMP programs based on Figure 4, Table 6 and Table 7 in the Joint IOU Covered Conductor Working Group Report. However, we did conduct a similar analysis of the combined effectiveness of covered conductor, asset inspections, and several WMP programs based on Figure 4, Table 6 and Table 7 in the Joint IOU Covered Conductor Working Group Report.</p> <p>d) As stated on page 17 of 18 in the alternative section of the Joint IOU Covered Conductor Working Group Report, the Joint IOU group is open to support Table 7 as a condition of how that information is presented. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group.</p> <p>e) As stated on page 17 of 18 in the alternative section of the Joint IOU Covered Conductor Working Group Report, the Joint IOU group is open to support Table 7 as a condition of how that information is presented. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group.</p> <p>f) As stated on page 17 of 18 in the alternative section of the Joint IOU Covered Conductor Working Group Report, the Joint IOU group is open to support Table 7 as a condition of how that information is presented. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group.</p> <p>g) As stated on page 17 of 18 in the alternative section of the Joint IOU Covered Conductor Working Group Report, the Joint IOU group is open to support Table 7 as a condition of how that information is presented. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group. PG&E is not currently able to provide a similar analysis to that of the Joint IOU group.</p>	Holly Wetman	4252003	4262003	4262003	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	AD PG&E-22-11 - Covered Conductor Effectiveness Lessons Learned
275	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	1	CaIQA_Sat WMP-20_01	<p>a) Describe PG&E's standard practice for retiring an asset from service.</p> <p>b) Describe how PG&E records the retirement of an asset from service.</p>	Holly Wetman	4262003	503003	503003	1	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
276	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	2	CaIQA_Sat WMP-20_02	<p>a) In 2022, as part of its WMP system hardening activities, did PG&E retire from service (i.e., retire, remove, destroy, or decommission) any assets that had not been depreciated at the time of retirement?</p> <p>b) Please describe how PG&E records the retirement of assets during 2022 system hardening activities.</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1.2	Grid Design and System Hardening	All
277	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	3	CaIQA_Sat WMP-20_03	<p>a) In 2023, as part of its WMP system hardening activities, does PG&E intend to retire from service (i.e., retire, remove, destroy, or decommission) any assets that are not fully depreciated at the time of retirement?</p> <p>b) Please describe how PG&E records the retirement of assets during 2023 system hardening activities.</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1.2	Grid Design and System Hardening	All
278	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	4	CaIQA_Sat WMP-20_04	<p>What is PG&E's standard practice for backing assets that are retired from service before they are fully depreciated?</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
279	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	5	CaIQA_Sat WMP-20_05	<p>a) PG&E retires from service an asset that has not been fully depreciated; does it remove the remaining undepreciated value of the asset from its site base?</p> <p>b) How does PG&E determine the remaining undepreciated value of an asset at the time the asset is retired from service?</p> <p>c) Please explain any scenario in which PG&E would retire from service an asset that has not been fully depreciated, but would keep the remaining undepreciated value of the asset in its site base.</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
280	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	6	CaIQA_Sat WMP-20_06	<p>a) As of the date of this data request, does PG&E's site base currently include any portion of the value of any assets that are no longer in service?</p> <p>b) If the answer is part (a) is yes, please explain why.</p> <p>c) If the answer is part (a) is no, the controls in place that ensure PG&E's site base does not currently include any portion of the value of assets that are no longer in service.</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1.5	Asset Management and Inspection Enterprise Systems	NA
281	CAIQA	Sat WMP-20	CaIQA_Sat WMP-20	7	CaIQA_Sat WMP-20_07	<p>In response to data request CaIQA/CAIQA_PGE-2023WMP-14, questions 20-22, PG&E stated, "We cannot provide the requested data. Our asset registry and work execution systems are not set up to enable this cross-referenced data compilation, and we do not track the volume of assets retired that have not been fully depreciated."</p> <p>a) Please explain what is meant by the statement, "Our asset registry and work execution systems are not set up to enable this cross-referenced data compilation."</p> <p>b) PG&E asks to determine the number of assets that have not been fully depreciated that retired from service as part of its 2020-2022 WMP activities?</p> <p>c) PG&E asks to determine the total remaining undepreciated value of assets that it retired from service as part of its 2020-2022 WMP activities?</p>	Holly Wetman	4262003	503003	503003	0	NA	8.1	Grid Design, Operations, and Maintenance	Distribution Pole and Replacements Traditional Overhead Hardening Transformers

282	TURN	009	TURN_009	1	TURN_009_Q1	<p>1. Regarding the 2023-2026 Undergrounding Workplan referenced on page 910 of the WMP (R1) and provided in Excel format in response to TURN Data Request 2-4.</p> <p>For each undergrounding project listed in this document, please provide the RSE calculated in accordance with the OJUC's S&MP Settlement (see pg. 342) as well as PG&E's WMP (R1) (see DWRS&E in WFE) that PG&E calculated for the undergrounding project. Please provide inputs and calculations for these RSE values, in five (5) categories: S&MP Settlement, OJUC's S&MP Settlement, OJUC's S&MP Settlement, OJUC's S&MP Settlement, and OJUC's S&MP Settlement.</p> <p>For each undergrounding project listed in this document, please provide the RSE calculated in accordance with the OJUC's S&MP Settlement (see pg. 342) as well as PG&E's WMP (R1) that PG&E calculated for the undergrounding project. Please provide inputs and calculations for these RSE values, in five (5) categories: S&MP Settlement, OJUC's S&MP Settlement, OJUC's S&MP Settlement, OJUC's S&MP Settlement, and OJUC's S&MP Settlement.</p>	Tom Long	4/06/2023	5/1/2023	5/1/2023	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	ACI PG&E 2018 - Progress and Update on Undergrounding and Risk Prioritization
283	MGRA	Data Request No. 3	MGRA_Data Request No. 3	1	MGRA_Data Request No. 3_Q1	<p>Please provide for Asset Point data for Camera, Fuse, Support Structures, and Weather Station.</p>	Joseph Michal	4/27/2023	5/0/2023	4/27/2023	0	NA	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_Q2	<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	5/0/2023	4/27/2023	0	NA	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_Q3	<p>Provide PPSV Event data, include Event Log, Event Line, Event Polygon data. Please exclude customer meter data. Provide all PPSV Event Asset Damage data including photos.</p>	Joseph Michal	4/27/2023	5/0/2023	4/27/2023	0	NA	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_Q4	<p>Provide Risk Event Point data, including Wire Down, Ignition, Transmission ungrounded outage line classified non-compliance, Distribution Ungrounded Outage data, Distribution Vegetation Caused Ungrounded Outage, Risk Event Asset Log.</p>	Joseph Michal	4/27/2023	5/0/2023	4/27/2023	0	NA	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_Q5	<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	5/0/2023	4/27/2023	0	NA	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_Q6	<p>Under Initiatives, please provide Other Initiative data for pole line, polygon features and Other Initiative Log.</p>	Joseph Michal	4/27/2023	5/0/2023	4/27/2023	0	NA	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_Q7	<p>Under Other Required Data, please provide Red Flag Warning Day polygon data.</p>	Joseph Michal	4/27/2023	5/0/2023	4/27/2023	0	NA	6.4	Risk Methodology and Assessment	Risk Analysis Results and Presentation
290	CaPA	Sat WMP-21	CaPA_Sat WMP-21	1	CaPA_Sat WMP-21_Q1	<p>Re Table 8-12 Vegetation Management Implementation Objectives, PG&E's Focused Tree Inspection (FTI) Program is currently under development. By the end of 2023, PG&E plans to fully implement AOC cross-sectional scans to implement guidelines across all AOC's.</p> <p>PG&E plans to implement a question 11 of data request. Callouts to PG&E WMP-15 due to FTI pilot of 300 individual trees to "inspect" to pilot the program needed to support and inform future work.</p> <p>Please provide an anticipated schedule for PG&E's rollout of the Focused Tree Inspection Program in the table below (adding as needed), include start, when and how PG&E will conduct the pilots, sample data collected from these pilots, and translate said data into a fully realized Focused Tree Inspection Program. Steps in implementing the Focused Tree Inspection Program.</p> <p>Beginning Date Completion Date</p>	Holy Wetman	4/27/2023	5/0/2023	5/0/2023	0	NA	8.2, 2.2.5	Vegetation Management and Inspections	Focused Tree Inspections
291	CaPA	Sat WMP-21	CaPA_Sat WMP-21	2	CaPA_Sat WMP-21_Q2	<p>The Table 2 in PG&E's Revised Quarterly Data Report for quarter 4 of 2022. PG&E had the following numbers of Distribution Inspection Findings in HFTD 2020, 2021, and 2022.</p> <p>2020 2021 2022 Disabled Findings Level 2 Findings 43,309 11,179 1,542 Detailed Inspection Level 2 Findings 13,024 2023 107 Partial Inspection Level 2 Findings 200 104 20 Partial Inspection Level 2 Findings 15 0 Other Inspection Level 2 Findings 11,179 12,195 1,028 Other Inspection Level 2 Findings</p> <p>After reviewing the data to provide a response to this request, PG&E realized that the data provided in our prior submission was incorrect. The discrepancy was the result of an Excel error that occurred when PG&E revised Table 2 with the additional inspection type details required for Q4 2022. Please see attachment.</p> <p>WMP-Distribution2022_Dist_Calculations_021-02023.xlsx for updated distribution inspection findings in HFTD from 2020 to 2022. Based on the corrected data, PG&E addresses the patterns in the findings below.</p> <p>(A) & (B) For our detailed ground inspections, increases in findings over these three years specifically in 2022 in each Tier 2 and Tier 3 HFTD areas can be attributed to our renewed focus on training and quality of inspectors. These key improvements to our inspection process included the following:</p> <ul style="list-style-type: none"> • The addition of indicators for ignition risk conditions on training. • Increased number of data and field reviews by in-house inspection team. • Weekly sessions with supervisors to review findings and address. • The increased participation of certain conductors on the inspection. • Conducted in 2022 highly increased camera level 2 findings. • 80% of all for our partial inspections, given the low number of L2 and Level 3 findings in HFTD areas from patches, we cannot conclude that there are any patterns other than those years in Tier 2 or Tier 3. • (A) & (B) For our other inspections, the increases in lag findings in 2021 were a result of two inspection-related factors: <ul style="list-style-type: none"> • PG&E inspectors had validated a less correct inventory and identified dead and dying trees for replacement and • PG&E inspectors had checked inventoried site facilities. • "Other" inspections" include distribution notifications generated from PG&E's pole line and tree inspection and aerial pilot as well as notifications that are not from inspection programs, which include notifications generated by the construction, restoration, estimating, and work verification teams. 	Holy Wetman	4/27/2023	5/0/2023	5/0/2023	1	NA	QDR	NA	NA
292	CaPA	Sat WMP-21	CaPA_Sat WMP-21	3	CaPA_Sat WMP-21_Q3	<p>In response to data request Callouts to PG&E WMP-15, question 10, PG&E stated: "The five most common problems identified in the OJUC process are: Chocks, insulators, cotter pins, wire issues, and structural issues."</p> <p>For each of the five problems listed above, please list any charges PG&E has made to the inspection process, procedures, or training to reduce the number of inspections with these problems.</p>	Holy Wetman	4/27/2023	5/0/2023	5/0/2023	3	NA	QDR	NA	NA
293	CaPA	Sat WMP-21	CaPA_Sat WMP-21	4	CaPA_Sat WMP-21_Q4	<p>1) In response to data request Callouts to PG&E WMP-15, question 10, PG&E stated: "The five most common problems identified in the OJUC process are: Chocks, insulators, cotter pins, wire issues, and structural issues."</p> <p>For each of the five problems listed above, please list any charges PG&E has made to the inspection process, procedures, or training to reduce the number of inspections with these problems.</p>	Holy Wetman	4/27/2023	5/0/2023	5/0/2023	0	NA	5.2.1	Public Safety Power Shutoff	Risk Thresholds (e.g., W5, PFI, etc.) and Decision-Making Process That Determine the Need for a PPSV
294	MGRA	Data Request No. 4	MGRA_Data Request No. 4	1	MGRA_Data Request No. 4_Q1	<p>Section 6.4.1.1 is provided in response to Energy Safety's 2023-2025 WMP guidelines which requested a granular risk map with risk levels presented in three layers as top 5%, 25%, and bottom 80% within the HRA. PG&E provided the risk ranked presentation of risk levels their requested. For this reason, the current risk values is not provided as a final deliverable.</p> <p>As described in Attachment 2023-03-27_PGE_2023_WMP_R1_Appendix C_Ash01/Section_6.4.1.1 in the current WMP, the risk values are provided in three layers as top 5%, 25%, and bottom 80% within the HRA. PG&E provided the risk ranked presentation of risk levels their requested. For this reason, the current risk values is not provided as a final deliverable.</p> <p>As described in Attachment 2.0.2.3, pages 171 and 172 in PG&E's 2023-2025 WMP, the top level risk value is the highest risk value of material base that are included in inspection rated and estimator training, as well as in job aid TD-101M-JA-07.</p>	Joseph Michal	4/26/2023	5/0/2023	5/0/2023	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Conceptual Maps of Top Risk Areas Within the HRA Proposed Updates to HFTD
295	MGRA	Data Request No. 4	MGRA_Data Request No. 4	2	MGRA_Data Request No. 4_Q2	<p>PG&E objects to the question in the map. Subject to and without waiving the objection, PG&E responds as follows: High risk polygons are other than low risk polygons, as the highest wildfire risk category. This distribution of risk can be seen in Figure 2.1.</p>	Joseph Michal	4/26/2023	5/0/2023	5/0/2023	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Conceptual Maps of Top Risk Areas Within the HRA
296	MGRA	Data Request No. 4	MGRA_Data Request No. 4	3	MGRA_Data Request No. 4_Q3	<p>From review, PG&E has confirmed that the original Attachment 2023-03-27_PGE_2023_WMP_R1_Appendix C_Ash01/Section_6.4.1.1 gets the methodology input correct some maps. Please see "WMP-Distribution2022_Dist_Calculations_021-02023.xlsx" for an updated GDS file. We will reach out to Energy Safety to provide the updated information pursuant to Energy Safety's guidelines.</p>	Joseph Michal	4/26/2023	5/0/2023	5/0/2023	1	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Conceptual Maps of Top Risk Areas Within the HRA 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 associated differences between the two. The information provided below consists of summary 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 Milegrams (2023-2025 WMP, R1, pages 205-206); The WMP Operational Milegrams (2023-2025 WMP, R1, pages 208-211); The WMP System Resilience Milegrams (2023-2025 WMP, R1, pages 211-212); Wildfire mitigation included in PG&E's Fall Year (FY) 2022 GRC but not included in the 2023-2025 WMP. <p>1. The information in this table documents what PG&E's wildfire mitigation programs contribute to reduce from the time we first filed our 2022 GRC (June 30, 2021) when we submitted our 2023-2025 WMP. Most of the mitigation programs listed in the FY 2023 GRC were also included in the 2023-2025 WMP. The table shows that there are some differences between the WMP and GRC for the following programs:</p> <ul style="list-style-type: none"> From the 2022 (when PG&E developed our GRC forecasts) through each 2023 (when PG&E filed our 2023-2025 WMP) we have changed the number of wildfire mitigation programs such as Enhanced Vegetation Management (EVM) and replacing it with new EVM programs that are designed to target vegetation risk more effectively in the highest risk areas of the High Fire Threat District/High Fire Risk Area (HFTD/HFRA). Additionally, PG&E selected the scope of work for other mitigations, an enhancement from risk models were updated and/or we learned more about the interactions of combined mitigation strategies. For example, in the GRC, PG&E noted that an observed event 100 wireless SCADA monitoring devices each year between 2023 and 2026, but that plans could change pending results of our assessment to address the state of Meter Switch Operator (MSO) and integration with other enhanced automation and wildfire mitigation efforts. <p>Wildfire Mitigation Program Description 2023-2025 WMP 2023 GRC Comprehensive Monitoring and Data Collection Milegrams Disabled Asset Inspections</p>	Tom Long	5/8/2023	5/12/2023	5/12/2023	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)_004	1	CPUC - SPD (Safety Policy Division)_004_01	<p>Please update CPUC-reportable system data. SPD's current data is submitted for 5/14/2021. The content is an aggregated data set based on the data found here, under Fire Ignition Data. WSPS is requesting an update due to incorrect reporting dates.</p> <p>1. SPD generally understands that some systems may have been excluded at the time the data was submitted if the cause of the fire was unclear.</p> <p>2. Data may have been considered once additional information was acquired.</p> <p>3. Data may have been entered inconsistently between years, which makes it difficult to perform analysis.</p> <p>4. Update the data to the actual number of acres burned rather than a range of acres.</p> <p>Before submitting final agreement data to WSPS, please set up a conference to discuss the ignition data addition and the potential areas the data may be formatted to be more useful to WSPS.</p>	Henry Dawit	5/8/2023	5/19/2023	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)_004	2	CPUC - SPD (Safety Policy Division)_004_02	<p>In addition to the data requested above, please add the following data columns for each ignition:</p> <p>1. "HFTD": Classify each ignition as whether it was located in a "Zone 1", "Zone 2" or "Zone 3" or "HFTD" or "Zone 1 Potential Index". Provide the Fire Potential Index for the location on the day of each ignition.</p> <p>Please Note</p> <p>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 (but not always) align with HFTDs. The ignitions that have blanks in column E did not occur on a circuit segment located in a FIA polygon and therefore do not have associated Fire Potential Index ratings.</p> <p>For column L (Accrual), this field is used to capture acreage for wildfires (i.e. fires greater than 10 acres). It will not typically be populated if the fire is less than 10 acres.</p> <p>Please Note the requested information is identified in column H.</p> <p>1. The requested information is identified in column H.</p> <p>Please Note</p> <p>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 (but not always) align with HFTDs. The ignitions that have blanks in column E did not occur on a circuit segment located in a FIA polygon and therefore do not have associated Fire Potential Index ratings.</p> <p>For column L (Accrual), this field is used to capture acreage for wildfires (i.e. fires greater than 10 acres). It will not typically be populated if the fire is less than 10 acres.</p>	Henry Dawit	5/8/2023	5/19/2023	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)_004	3	CPUC - SPD (Safety Policy Division)_004_03	<p>Provide the total number of circuit-mile days for each Fire Potential Index rating per year starting in 2014.</p> <p>Please Note the requested information below.</p> <p>This analysis was completed by first counting the number of days each Fire Index Area (FIA) was forecasted as a certain rating per year. These day counts were then multiplied by the number of OH line miles in each FIA to provide the circuit-mile-days.</p> <p>Please note that between 2014 and 2016 we did not record FIA ratings below R4, and between 2014 and 2017 we did not record FIA ratings R5+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>FPI Rating Circuit Mile Days. Total OH Miles</p> <p>Year/R1 R2 R3 R4 R5</p> <p>2014 NA NA 57121 12822 NA</p> <p>2015 NA NA 127878 22087 NA</p> <p>2016 NA NA 127478 22087 NA</p> <p>2017 41422 22474 12828 118245 14232 NA</p> <p>2018 252826 387426 181838 594085 7016 10736</p> <p>2019 482524 187294 182824 1111328 21473 17893</p> <p>2020 320005 272958 152818 188877 57837 101844</p> <p>2021 148373 202973 22474 NA 148844 114828 27794</p> <p>2022 632007 198779 201280 1351483 112436 0</p> <p>2023 281842 241458 181318 0 0</p>	Henry Dawit	5/8/2023	5/19/2023	5/17/2023	0	NA	8.3.6	Statistical Awareness and Forecasting	Fire Potential Index
349	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	4	CPUC - SPD (Safety Policy Division)_004_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> <p>Please Note the requested information below.</p> <p>This analysis was completed by counting the number of days each Fire Index Area (FIA) was forecasted as a certain rating per year.</p> <p>Please note that between 2014 and 2016 we did not record FIA ratings below R4, and between 2014 and 2017 we did not record FIA ratings R5+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>FPI Rating Days per Year</p> <p>Year/R1 R2 R3 R4 R5</p> <p>2014 NA NA 241817 NA</p> <p>2015 NA NA 345172 NA</p> <p>2016 NA NA 345172 NA</p> <p>2017 1878 707 2447 141 NA</p> <p>2018 17047 13564 4952 2054 1755 12</p> <p>2019 23803 8844 5447 4927 803 389</p> <p>2020 1821 8076 4876 5846 1802 328</p> <p>2021 15719 1705 7811 8816 880 19</p> <p>2022 16374 4555 5923 5381 791 0</p> <p>2023 1428 3010 1510 0 0</p>	Henry Dawit	5/8/2023	5/19/2023	5/17/2023	0	NA	8.3.6	Statistical Awareness and Forecasting	Fire Potential Index
350	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	5	CPUC - SPD (Safety Policy Division)_004_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> <p>Please Note the requested information below.</p> <p>This analysis was completed by first counting the number of days each Fire Index Area (FIA) was forecasted as a certain rating per year. These day counts were then multiplied by the number of OH line miles in each FIA and the HFTD to provide the circuit-mile-days.</p> <p>This is a slight variation of question 3 that includes all circuit miles in each FIA, not the available only circuit OH circuit miles in a FIA and HFTD. We also exclude HFRA.</p> <p>Please note that between 2014 and 2016 we did not record FIA ratings below R4, and between 2014 and 2017 we did not record FIA ratings R5+ in our databases. Also, 2023 contains data only through the first few weeks of May.</p> <p>FPI Rating Circuit Mile Days. Total OH Miles</p> <p>Year/R1 R2 R3 R4 R5</p> <p>2014 NA NA 83183 85 NA</p> <p>2015 NA NA 181415 1415 NA</p> <p>2016 NA NA 485510 642 NA</p> <p>2017 10021 18100 14788 110200 8718 NA</p> <p>2018 210004 340448 136295 53334 60423 9361</p> <p>2019 37978 142817 142817 1818 171854</p> <p>2020 28650 242737 131123 173038 48417 14098</p> <p>2021 148373 202973 22474 NA 148844 114828 27794</p> <p>2022 282626 137384 173844 118525 9882 2207</p> <p>2023 121381 14818 818 0 0</p>	Henry Dawit	5/8/2023	5/19/2023	5/17/2023	0	NA	8.3.6	Statistical Awareness and Forecasting	Fire Potential Index
351	CPUC - SPD (Safety Policy Division)	004	CPUC - SPD (Safety Policy Division)_004	6	CPUC - SPD (Safety Policy Division)_004_06	<p>Explain how the ability to normalize for the effect of weather and fuel conditions when understanding its performance each year on systems relate to changing weather and fuel conditions year over year.</p> <p>In general, we have been evaluating our performance metrics against indicators of weather (FPI, Day 15, and others) for the last several years and we've had very strong days.</p> <p>1) In order to more specifically evaluate, we are normalizing for weather in the EPSS effectiveness performance in the following ways:</p> <ul style="list-style-type: none"> For 2022, EPSS effectiveness was calculated by comparing the number of consecutive year systems that occurred while EPSS was enabled, divided by the average number of systems that occurred each year from 2018-2022 that would have the EPSS enabled using an FPI back cast. In order to normalize for variance in the potential conditions (as quantified by the Fire Potential Index), system counts for each year are divided by the total number of "Circuit Miles Enabled" for the year. Circuit Mile Days are defined as the circuit miles in HFTD/HFRA for a circuit, multiplied by the number of days that EPSS was enabled on that circuit while the EPSS circuit, and added together to determine the total Circuit Mile Days for the year. Note: If the calculation was performed mid-year, the normalization calculation was only performed through the target date. E.g., if effectiveness was measured through 6/30/22, years would only be normalized to "Circuit Mile Days" through 6/30/18, 6/30/19, and 6/30/20 respectively. The calculation accounts for the increased the potential risk exposure on the system for each year, using the same criteria used to determine when EPSS is enabled. 	Henry Dawit	5/8/2023	5/19/2023	5/17/2023	0	NA	8.3.6	Statistical Awareness and Forecasting	Fire Potential Index
352	CAI/PA	Set WMP-24	CAI/PA_WMP-24	1	CAI/PA_WMP-24_01	<p>In reference to your response to Question 11 of DR CAI/PA-PGE-2023WMP-16, on the excel spreadsheet WMP-Discovery_2023_DR_16-001-001A01.</p> <p>1. In table (a) through (g), please identify the adjacent circuits with the CAI/PA to US connection projects that have no adjacent circuits.</p> <p>2. In table (h) and (i), please identify the adjacent circuits with the CAI/PA to US connection projects that have (a) through (h).</p>	Holly Wetman	5/8/2023	5/12/2023	5/12/2023	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>Is the data source of the POI data the machine learning algorithm described in WDRM documentation? If not what other steps go into the POI?</p> <p>Yes, the POI data stream is the result of the process and data described in section 6.2.1 and shown in Table PG&E 6.2.1-1.</p>	Joseph Michalek	5/10/2023	5/15/2023	5/15/2023	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Generated Maps of Top Risk Areas Within the HFRA Proposed Updates to HFTD
354	MGRA	Data Request No. 5	MGRA_Data Request No. 5	2	MGRA_Data Request No. 5_02	<p>Is the fine-grained POI distribution a result of the localization of specific historical outages, characteristics of assets, or conditions, or both?</p> <p>The fine-grained features (other than values being neighboring points) in PG&E's risk model outputs are a product of using predictive constraints, including historical and environmental attributes. Please see the response to Question 4 of the Data Request for an explanation of how historical outages may influence fine-grained features.</p> <p>As mentioned in the response to MGRA Data Request No. 5, the model does exhibit some level of noise and is not a perfect representation of the underlying risk. For this reason, further development is generally guided by circuit segment level aggregations that provide an improved resolution of risk levels.</p>	Joseph Michalek	5/10/2023	5/15/2023	5/15/2023	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Generated Maps of Top Risk Areas Within the HFRA Proposed Updates to HFTD
355	MGRA	Data Request No. 5	MGRA_Data Request No. 5	3	MGRA_Data Request No. 5_03	<p>What of the following characteristics is known or suspected to contribute to the fine-grained localization of POI shown above, and to what degree:</p> <ul style="list-style-type: none"> 1. Free density and height 2. Vegetation 3. Asset age 4. Asset type <p>When the following characteristics is known or suspected to contribute to the fine-grained localization of POI shown above, and to what degree:</p> <ul style="list-style-type: none"> 1. Free density and height 2. Vegetation 3. Asset age 4. Asset type <p>The causal effects of each of the above characteristics are not directly estimated by the WDRM v3. To the extent an asset is replaced as part of a wildfire mitigation project, the asset age, age, and type would be reflected in WDRM v3 and may contribute to fine-grained localization.</p>	Joseph Michalek	5/10/2023	5/15/2023	5/15/2023	0	NA	6.4.1.1, 6.4.1.2	Risk Methodology and Assessment	Generated Maps of Top Risk Areas Within the HFRA Proposed Updates to HFTD

372	CPUC - SPD (Safety Policy Division)	005	CPUC - SPD (Safety Policy Division)_005	1	CPUC - SPD (Safety Policy Division)_005_01	<p>1.Regarding costs interest in PG&E's undergrounding grid hardening mitigation relative projects, used in calculating cost efficiency and project feasibility as described in the 2023-2025 WMP (p. 240 and p. 266), to be used and looking forward?</p> <p>2.What was the average cost per circuit mile for undergrounding in 2022, 2021, and 2020, in the HFTD, non-HFTD, and territory west?</p> <p>3.What is the average cost per circuit mile expected in 2023, 2024, and 2025, in the HFTD, non-HFTD, and territory west?</p> <p>4.For subparts a, and b, explain expected average year-over-year cost changes.</p>	<p>Please see the following table for average cost per circuit mile for undergrounding grid between base System based on undergrounding work and for related work. All completed undergrounding circuit miles in 2022, 2021, and 2020 are in HFTDs.</p> <p>Year</p> <p>Completed Base CG Total Line Cost (Average in \$M) (New Relocated CG Total Line Cost (Average in \$M)</p> <p>Completed Relocated Total Line Cost (Average in \$M)</p> <p>2020 \$1.21M \$6.92M 2021 \$1.18M \$2.22M 2022 \$4.48M \$2.16M \$2.77M</p> <p>5. Are there any additional costs, particularly the related resources in the Center and North Complex, are more responsive per mile than the base system hardening program? If so, please provide a breakdown of the additional resources in these environments (e.g., expedited timelines, accelerated permitting, geographic factors).</p> <p>6. The current forecasted average cost per circuit mile for undergrounding, including the Relocated and Base CGs, is \$2.36 million in 2023, \$3.18 million in 2024, and \$2.96 million in 2025. All planned undergrounding projects are in HFTDs or high fire risk areas (HFRA).</p> <p>7. As shown in the responses to subparts a & b, the year-over-year cost has generally decreased, and is expected to further decrease. Can it multiple factors as we scale the program, including but not limited to:</p> <ul style="list-style-type: none"> 1) Economies of scale as the program knowledge and familiarity grows with our internal crew, contractors, materials suppliers, designers and many others; 2) Undergrounding process efficiencies through lessons learned; 3) Updating standards for design and construction, such as reusing the trench. <p>8. Please see the following table for each cost component's estimated contribution to the total cost. These estimates are based on actual costs for completed undergrounding work in 2022. This year's completed projects are PG&E's least currently available representation of the cost estimating breakdown and is expected to be similar in future years.</p> <p>Cost Component Est. Contribution to Total Cost</p> <p>Relocated 70% Materials 16% Contractor 10% Overhead 10% Other 7% Financing 1% TOTAL 100%</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_01	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	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 estimating format (e.g., Uniformat). If the utility uses a different format, provide internal documentation on that format so SPD can understand the cost estimate.</p>	<p>Kevin Miller</p>	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_02	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	3	CPUC - SPD (Safety Policy Division)_005_03	<p>3.How is PG&E incorporating subsurface variability (e.g., encountering hard rock, slips, or other conditions presenting significant, physical obstacles) into undergrounding cost calculations? Provide an example.</p>	<p>PG&E recognizes that subsurface variability contributes to undergrounding cost, but does not incorporate a specific subsurface variability factor into its costed cost forecasts.</p> <p>For completed work, costs associated with subsurface variability are captured at the individual project level, which is incorporated into the average cost per mile of the completed PG&E's undergrounding construction lessons learned to address variability and how those issues can impact project costs in PG&E's Wildfire Mitigation Plan - WMP - Discovery2023_DR_California/2023-2025.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_03	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	4	CPUC - SPD (Safety Policy Division)_005_04	<p>4.PG&E has stated that CallTerra 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 CallTerra trench depth requirements for 2023-2025?</p>	<p>PG&E has made changes to our per mile cost forecasts related to CallTerra trench depth requirements. Planning for CallTerra trench requirements is incorporated into individual project design packages.</p> <p>Of the approximately 2,700 circuit miles planned in the 2023-2026 Undergrounding Program, PG&E has determined that CallTerra trench depth requirements are likely to apply to approximately 1,000 circuit miles. The CallTerra trench depth requirements are being incorporated into the individual project design packages. The CallTerra trench depth requirements are being incorporated into the CallTerra trench depth requirements in both of these projects in a subject final design of alternative.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_04	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	5	CPUC - SPD (Safety Policy Division)_005_05	<p>5.How does service life impact cost calculation?</p>	<p>PG&E's undergrounding program is designed to last 20 years. Service life is not considered in these calculations, but is expected to be longer than that of other undergrounding programs. PG&E's undergrounding program is designed to last 20 years, long-term costs for operations and maintenance, vegetation management, and other activities are included.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_05	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	6	CPUC - SPD (Safety Policy Division)_005_06	<p>6.What is the estimated multiplier for conversion from overhead (OH) line to underground (UG) line (e.g., 1.25 for 120kV circuits or 1.50 for 69kV circuits)? How was this conversion rate derived?</p> <p>7.How was this established as the accepted operating average for project planning purposes?</p>	<p>1. The original estimated conversion of overhead to underground (UG) line (1.25) was based on a limited number of projects. In April 2023, PG&E completed a final review of 19 projects completed in 2022 to update this estimate. In these 19 projects, we determined approximately 12.7 overhead miles and replaced them with 16.2 underground miles based on the subset of data, which is generally consistent with the estimated conversion rate for our overall program. The updated conversion factor is 1.3. Please also see response to 2023 WMP Discovery TURN DR 001 - Subpart 1.</p> <p>2. This response is not applicable.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_06	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	7	CPUC - SPD (Safety Policy Division)_005_07	<p>7.On pilot projects completed to date:</p> <p>1)What is the total all-in cost per mile?</p> <p>2)What is the breakdown of project costs per mile? SPD expects to see the following components inside of the cost, although SPD understands they may not be broken down in this exact format:</p> <ul style="list-style-type: none"> 1)Location (e.g., primary line, secondary line, service drop) 2)Design (e.g., hard for both internal and external designers) 3)Design Estimating (e.g., labor, materials, other costs) 4)Dependencies (e.g., permits, contracts, long-lead materials) 5)Construction (e.g., civil construction, electric construction) 6)Other (e.g., third party permits to homeowners as homeowners may complete work such as landscaping or road repair) 	<p>1. In 2019, PG&E completed two pilot projects to convert overhead primary conductor to underground primary conductor. The total all-in cost per mile for each pilot project is listed in the table below.</p> <p>Project 1: 0.000000 Project 2: 0.000000</p> <p>Cost Component Est. Contribution to Total Cost</p> <p>Relocated 70% Materials 16% Contractor 10% Overhead 10% Other 7% Financing 1% TOTAL 100%</p> <p>The costs for each of the two pilot projects cost component are shown in the table below.</p> <p>Project 1 \$1,300,000 Project 2 \$1,300,000</p> <p>Cost Component</p> <p>Relocated \$124,386.70 \$132,187.82 Materials \$64,030.00 \$41,564.87 Contractor \$208,000.00 \$201,087.68 Overhead \$120,277.83 \$33,303.18 Other \$4,467.10 \$27,643.32 Financing \$14,793.82 Total Cost \$645,644.05 \$1,674,774.79 Undergrounded Miles 0.25 0.4</p> <p>Total Line Cost Per Mile in \$M \$1.14 1.4</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_07	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	8	CPUC - SPD (Safety Policy Division)_005_08	<p>8.Please provide WMP-Discovery2023_DR_TURN_007-000144CONF.xlsx, used to address TURN Data Request 7, Question 1, discussing RISE calculation for system hardening.</p>	<p>Please see "WMP-Discovery2023_DR_TURN_007-000144CONF.xlsx".</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_08	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	9	CPUC - SPD (Safety Policy Division)_005_09	<p>9.On page 151 of the 2023-2025 WMP, PG&E states that the WDRM is ignition source in PG&E's historical ignition data, 2015-2021 (approximately 2,500 non-CPUC-reparable ignitions and approximately 1,900 non-reparable ignitions).</p> <p>1)Describe how PG&E is using the ~1,900 non-CPUC-reparable ignitions in its risk modeling.</p> <p>2)Provide the ~1,900 non-CPUC-reparable ignition data in a spreadsheet to formalize the existing CPUC-reparable ignition data (see DR SPD_PG&E_2023_04 and WDRM and Wildfire Safety (ign. data), under Fire Ignition Data).</p>	<p>1. The PG&E Historical Ignition Data described on page 151 of PG&E's WMP is used as the starting data for the probability of ignition model portion of the WDRM. For modeling the data and the reported quantity is used when available.</p> <p>2. The approximately 1,900 non-CPUC-reparable ignitions were used in the development of the WDRM in alignment with WMP-Discovery2023_DR_SPD_005 COGNITION-01. This information has been aligned with the format used for the CPUC-reparable ignitions. In some cases, not all data was available.</p>	Kevin Miller	5/15/2023	6/12/2023	6/12/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_005_09	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	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 reduction effectiveness of EPRIS, Undergrounding and Covered Conductor (CC), PG&E issued Area CC2 probably the most "realistic" mitigation effectiveness as the effectiveness based on empirical data and crew size adjustments. EPRIS is the second most realistic based on empirical data, and that CC is the least realistic mitigation effectiveness as it is based upon a SME judgement. PG&E agreed to update its undergrounding mitigation effectiveness percentage calculation to account for secondary service drop ignitions.</p> <p>2.Provide this analysis per project on update on when this analysis will be finished and submit the analysis if it is finished.</p>	<p>PG&E notes that the calculation of risk mitigation effectiveness can be complex in nature, and being different approaches to calculate effectiveness are not necessarily comparable. The mitigation effectiveness calculation for covered conductor was calculated as the risk reduction based on the joint O&A agreed upon a common methodology of using a combination of estimated effectiveness based on SME input against historical data and received effectiveness based on analysis of overhead hardware locations across multiple years of installation. At the time, the mitigation effectiveness estimate for undergrounding was calculated as the risk reduction based on a single SME input against historical data and received effectiveness based on a single SME input. As a result, PG&E's wildfire risk effectiveness assessment for undergrounding was based on a single SME input against historical data and received effectiveness based on a single SME input. PG&E is currently updating its updated mitigation effectiveness analysis for undergrounding in HFTD or HFRA areas, including to account for the impacts of secondary lines and service drops, for inclusion in the SB-84 10-Year Undergrounding Plan filing, which PG&E is preparing in the 2023. PG&E recognizes the analysis will be comparable and validated in 2023 included in the filing of PG&E's 10-Year Mitigation Plan.</p>	Kevin Miller	5/17/2023	5/23/2023	5/23/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_006_01	0	NA	8.1.8.1	Grid Design, Operations, and Maintenance	Protective Equipment and Device Settings
382	CPUC - SPD (Safety Policy Division)	006	CPUC - SPD (Safety Policy Division)_006	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 by replacing the secondary lines and service drops with covered conductor and undergrounding. PG&E's response to question 4 of SPD_PG&E_2024_003 for additional description. PG&E also stated that there may need to be a change in the 20% mitigation effectiveness for undergrounding. PG&E only wants to apply to primary lines not that with the risk. PG&E is PG&E increasing this information in its message?</p>	<p>1. An increased survey is being completed with SPD on May 5, 2023. PG&E currently relies on taking points, the PG&E vehicles, and/or customer materials that "Placing method" positioned underground and service drops risk to approximately 50% of the location. PG&E intended the term "to that location" to indicate that the 50% risk mitigation applied to the area, in the critical segment, actually being undergrounded, and not to other areas beyond where the undergrounding takes place. This would not apply to blank secondary lines and service drops because they are not being undergrounded. PG&E has completed preliminary work identifying the survey cost, such as "undergrounding" in SPD, effective in mitigating wildfire risk on the electric distribution primary lines being undergrounded? However, PG&E routinely receives feedback from customers, electric utilities, regulators, and other stakeholders regarding undergrounding and easy to digit. Semi-technical language like "vehicle, distribution primary lines," or other references of the phrase, may not be ideal for customer communications and will have to be revised and updated to ensure it is in plain and easy to understand language. PG&E will update the SB-84 10-Year Undergrounding Plan filing, including the SB-84 10-Year Undergrounding Plan and future WMP updates.</p> <p>2. PG&E will evaluate this language through testing upon completion of the SB-84 10-Year Undergrounding Plan filing. In alignment with PG&E's response to SPD_005_0001, PG&E is completing an analysis of alternative combinations of multiple wildfire mitigations, including the consideration of undergrounding secondary lines and services for inclusion in our SB-84 10-Year Undergrounding Plan filing. Pending the results of the new analysis for the SB-84 Plan, the various communication channels that carry PG&E's undergrounding messaging will be updated, as needed. PG&E will also update future wildfire filings with any updated language or findings, including the SB-84 10-Year Undergrounding Plan and future WMP updates.</p> <p>3. If necessary, based on the new analysis described above, PG&E will update future communications on the undergrounding program to optimize clarity on the scope and impact of its undergrounding effort. Future communications will likely include communication to many interested stakeholders including regulators and interested stakeholders, communities, and the media.</p>	Kevin Miller	5/17/2023	5/23/2023	5/23/2023	https://www.pge.com/global/communications/communications-external/external-communications/external-communications-reference-docs/2023-WMP_006_02	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution

465	CaPA	Sat WMP-30	CaPA_Sat WMP-30_Q4	4	CaPA_Sat WMP-30_Q4	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Please provide a GDS file that details the risk scores at the same granularity that is currently used to inform wildfire mitigation measures (as discussed in questions 1)F) and 2)B). This file should contain the following:</p> <p>(a) Geometric features identifying the relevant geometry for each risk score. This may be polygons that depict "zones," lines that depict circuit segments, points that depict assets, or other geometry that best suits the relevant risk score. If multiple risk scores are generated from the same geometry, PG&E plans to make the model information available with the 2025 WMP Update.</p> <p>(b) For each geometric feature, please include all relevant risk scores from questions 1)G) and 2)B) as attributes.</p> <p>(c) For each geometric feature, include the circuit identification number as an attribute.</p> <p>(d) For each geometric feature, include the circuit segment name as an attribute.</p> <p>(e) As needed, include unique identification for each geometric feature (e.g., asset ID, substitution name, etc.)</p>	<p>4) - 1) As stated in the response to Questions 001 - 003, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetman	10/1/2023	10/25/2023	10/30/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
469	CaPA	Sat WMP-30	CaPA_Sat WMP-30_Q5	5	CaPA_Sat WMP-30_Q5	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Please provide a spreadsheet that lists (a) each circuit segment that is included in the Wildfire Distribution Risk Model v4. This spreadsheet should include, at a minimum, the following columns:</p> <p>(i) Name or ID number of each circuit segment.</p> <p>(ii) Circuit name for the circuit that each segment is part of.</p> <p>(iii) Circuit ID for the circuit that each segment is part of.</p> <p>(iv) Name of substation.</p> <p>(v) The point count of the circuit segment. (C&I Advocates understands this to be the number of 100m x 100m pixels assigned to the WORM v4 along the length of the circuit segment.)</p> <p>(vi) The average risk value(s) associated with each point along the circuit segment. (In previous versions of the risk model, this was referred to as the "mean WMP score (M)" or "mean WMP.")</p> <p>(vii) Total circuit-miles on the circuit segment.</p> <p>(viii) Total non-HFTD overhead circuit-miles on the circuit segment.</p> <p>(ix) Total Tier 2 overhead circuit-miles on the circuit segment.</p> <p>(x) Total Tier 3 overhead circuit-miles on the circuit segment.</p> <p>(xi) Total underground circuit-miles on the circuit segment.</p> <p>(xii) Total Tier 2 underground circuit-miles on the circuit segment.</p> <p>(xiii) Each risk score listed in a separate and labeled column (as identified in question 1)G) that is used at the segment level to inform wildfire mitigation relations. (May require multiple columns.)</p> <p>(xiv) Each composite risk score (each in a separate and labeled column) identified in question 2)G) that is used at the segment level to inform wildfire mitigation relations. (May require multiple columns.)</p>	<p>4) - 1) As stated in the response to Questions 001 - 004, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update.</p>	Holly Wetman	10/1/2023	10/25/2023	10/30/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
470	CaPA	Sat WMP-30	CaPA_Sat WMP-30_Q6	6	CaPA_Sat WMP-30_Q6	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Has the E3 or another entity performed an independent review of the WORM v4?</p> <p>(i) If the answer to part (a) is yes, please provide a copy of any report and state when the independent review of the WORM v4?</p> <p>(ii) If the answer to part (a) is no, does PG&E plan to have E3 or a similar entity perform an independent review of the WORM v4?</p> <p>(iii) If the answer to part (a) is no, please explain why not.</p> <p>(iv) If the answer to part (a) is yes, when does PG&E expect the review to be completed?</p>	<p>4) - 1) The WORM v4 is currently under review by E3. PG&E expects that the E3 review will be completed and available with the 2025 WMP Update.</p>	Holly Wetman	10/1/2023	10/25/2023	10/30/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
471	CaPA	Sat WMP-30	CaPA_Sat WMP-30_Q7	7	CaPA_Sat WMP-30_Q7	<p>The following questions refer to the risk scores generated from WORM v4. This should be understood to refer to PG&E's responses to questions 1 and 2 above.</p> <p>Has PG&E created a detailed overview document that details the WORM v4, similar to the "2021 Wildfire Distribution Risk Model Overview" that PG&E submitted following the public workshop held on October 5 and 6, 2021?</p> <p>(i) If the answer to part (a) is yes, please provide a copy of the document.</p> <p>(ii) If the answer to part (a) is no, does PG&E plan to create such a document?</p> <p>(iii) If the answer to part (a) is no, please explain why not.</p> <p>(iv) If the answer to part (a) is yes, when does PG&E expect the document to be completed?</p>	<p>4) - 1) As stated in the response to Questions 001 - 005, the WORM v4 is not currently available. PG&E plans to make the model information available with the 2025 WMP Update. PG&E anticipates preparing a similar document as part of the 2025 WMP Update.</p>	Holly Wetman	10/1/2023	10/25/2023	10/30/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
472	CaPA	Sat WMP-30	CaPA_Sat WMP-30_Q8	8	CaPA_Sat WMP-30_Q8	<p>Page 75 of PG&E's 2023-2025 Wildfire Mitigation Plan Supplemental Responses to Revision Notice, September 27, 2023 states, "When we begin using the WORM v4 and incorporating it with the WBCA (Wildfire Benefit Cost Analysis), risk ranking and project prioritization will include wildfire risk reduction, reliability benefits, public safety, project costs, and other factors that the present version of WORM does not. The costs and benefits of an undergrounding project."</p> <p>(a) Does the WORM v4 include an estimation of reliability benefits, as discussed in the above quote? Please explain why.</p> <p>(b) Does the WORM v4 include an estimation of public safety, as discussed in the above quote? Please explain why.</p> <p>(c) Does the WORM v4 include an estimation of project costs, as discussed in the above quote? Please explain why.</p>	<p>4) - 1) - c) The WORM v4 score does not include the estimated benefits requested in parts a, b, and c. Reliability benefits, public safety, and project costs will be considered in part of the WBCA, and will be part of the WBCA.</p>	Holly Wetman	10/1/2023	10/25/2023	10/30/2023	0	NA	2022 WMP Section 4.5	Model Metrics and Calculation Methodologies	NA
473	CaPA	Sat WMP-31	CaPA_Sat WMP-31_Q1	1	CaPA_Sat WMP-31_Q1	<p>The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders.</p> <p>On page 530 of your 2023 - 2025 WMP R3, PG&E provided a table (Table 8-8-1) showing the total number of past due transmission asset work orders by age and HFTD tier. Please provide a similar table for past due distribution asset work orders by age and HFTD tier as of September 30, 2023.</p> <p>Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area</p> <p>0 - 30 Days</p> <p>31 - 60 Days</p> <p>61 - 90 Days</p> <p>91 - 180 Days</p> <p>181+ Days</p> <p>Non - HFTD</p> <p>HFTD Tier 2</p> <p>HFTD Tier 3</p>	<p>Please see the table below for the requested information.</p> <p>Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area = 30 Days 31 - 60 Days 91 - 180 Days 181+ Days</p> <p>Non - HFTD 1877 1514 1467 16159</p> <p>HFTD Tier 2 145265 1945 1149</p> <p>HFTD Tier 3 60 54 98 835</p>	Holly Wetman	10/1/2023	10/28/2023	10/29/2023	0	NA	8.1.7	Open Work Orders	NA
474	CaPA	Sat WMP-31	CaPA_Sat WMP-31_Q2	2	CaPA_Sat WMP-31_Q2	<p>The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders.</p> <p>On page 530 of your 2023 - 2025 WMP R3, PG&E provided a table (Table 8-8-1) showing the total number of past due transmission asset work orders by age and HFTD tier. Please provide a similar table for past due distribution asset work orders by age and HFTD tier as of September 30, 2023.</p> <p>Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area</p> <p>0 - 30 Days</p> <p>31 - 60 Days</p> <p>61 - 90 Days</p> <p>91 - 180 Days</p> <p>181+ Days</p> <p>Non - HFTD</p> <p>HFTD Tier 2</p> <p>HFTD Tier 3</p>	<p>Please see the table below for the requested information.</p> <p>Number of Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area = 30 Days 31 - 60 Days 91 - 180 Days 181+ Days</p> <p>Non - HFTD 18,404 18,327 41,337 206,643</p> <p>HFTD Tier 2 1,303 18,127 20,558 65,901</p> <p>HFTD Tier 3 230 289 847 65,907</p>	Holly Wetman	10/1/2023	10/28/2023	10/29/2023	0	NA	8.1.7	Open Work Orders	NA
475	CaPA	Sat WMP-31	CaPA_Sat WMP-31_Q3	3	CaPA_Sat WMP-31_Q3	<p>The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7 - Open Work Orders.</p> <p>On page 537 of your 2023 - 2025 WMP R3, PG&E stated with regard to distribution asset work orders: "PG&E will provide the number of past due asset work orders, categorized by age, in the HFTD from 03/2020 through 03/2023."</p> <p>(a) Please list the reasons why PG&E was unable to provide the number of past due asset work orders, categorized by age, in the HFTD as stated above.</p> <p>(b) Please list any steps PG&E has taken to improve its ability to provide the number of past due asset work orders, categorized by age, in the HFTD as stated above.</p>	<p>4) At the time of filing the 2023 - 2025 WMP, PG&E did not have the capability to extract the data at the granularity requested. Therefore, PG&E was unable to provide the number of past due asset work orders and, therefore, submit the Quarterly Data Report, Table 2, metrics 7a - 7c in a proxy to generate the number of past due asset work orders.</p> <p>(b) Through 03/2023, PG&E has implemented a data extraction capabilities and is now able to provide the data at the requested granularity. This capability has improved by extracting additional data elements and creating a historical data storage possibilities. This semi-automated process will now allow us to pull data more easily and the capabilities.</p>	Holly Wetman	10/1/2023	10/28/2023	10/30/2023	0	NA	8.1.7	Open Work Orders	NA
476	CaPA	Sat WMP-31	CaPA_Sat WMP-31_Q4	4	CaPA_Sat WMP-31_Q4	<p>The following questions pertain to PG&E's 2023 - 2025 WMP Revision 3, submitted on September 27, 2023, Section 8.1.7.2 - Open Work Orders - Distribution Tags in PG&E's 2023 - 2025 WMP R3 documents a subset of open work orders referred to as "tagged-out" tags. Please provide a table similar to Table 8-8-1 for all past due open work, distribution asset work orders by age and HFTD tier as of September 30, 2023.</p> <p>Number of "Tagged-Out" Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area</p> <p>0 - 30 Days</p> <p>31 - 60 Days</p> <p>61 - 90 Days</p> <p>91 - 180 Days</p> <p>181+ Days</p> <p>Non - HFTD</p> <p>HFTD Tier 2</p> <p>HFTD Tier 3</p>	<p>Please see the table below for the requested information.</p> <p>Number of "Tagged-Out" Past Due Distribution Asset Work Orders Categorized by Age (through September 30, 2023)</p> <p>HFTD Area = 30 Days 31 - 60 Days 91 - 180 Days 181+ Days</p> <p>Non - HFTD 23 209 454 6,077</p> <p>HFTD Tier 2 1, 191 1,492 23 409 63,512</p> <p>HFTD Tier 3 2 103 763 65,157</p>	Holly Wetman	10/1/2023	10/28/2023	10/29/2023	0	NA	8.1.7	Open Work Orders	NA
477	CPUC - SPD (Safety Policy Division)	011	CPUC - SPD (Safety Policy Division)_011	1	CPUC - SPD (Safety Policy Division)_011_01	<p>Could you calculate the Joint Table RW-PG&E-23-05-05. Explain specifically how Risk Avoidance over Lifetime Benefit is calculated from Total Risk, page 85 of PG&E's 2023-2025 Wildfire Mitigation Plan (WMP) - Supplemental Revision Notice Response?</p>	<p>In critical issue RW-PG&E-23-05, PG&E explained that in response to the Commission decision in the Risk-Based Decision-Making Framework for (RISBMF), we are in the process of constructing a benefit-cost model. The model will incorporate several elements of the mitigation selection decision-making process into an analytical model. PG&E calls this the Wildfire Benefit Cost Analysis (WBCA) tool. In RW-PG&E-23-05 PG&E provided an example of the output from the WBCA model for an undergrounding project (Table RW-PG&E-23-05-3).</p> <p>PG&E responded to an Energy Safety Data Requested seeking for more information about the WBCA. In that response, the WBCA model submitted for the 2023-2025 WMP is based on PG&E's Wildfire Distribution Risk Model (WDRM) and none of the 2022-2026 projects included in the WMP. The WBCA model submitted for the 2023-2025 WMP is based on PG&E's WBCA being developed to support PG&E's 10-year (SB 884) undergrounding plan and we anticipate finalizing the WBCA tool for submission in 2024. We anticipate eventually using the WBCA to inform project selection for PG&E's long-term undergrounding plan and future WMPs.</p> <p>Because the WBCA is still in development, PG&E is not in position to respond to either (a) or (b) in this question at this time.</p>	Harry Sweet	10/1/2023	10/1/2023	10/1/2023	0	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of electric lines and/or equipment

445	CAIPA	Sat WMP-12	CAIPA_Sat WMP-12	7	CAIPA_Sat WMP-12_Q7	<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 at a minimum: a) PA File ID. b) The full calculation spreadsheet for each conductor replacement based on conductor. c) Estimated safety factor for each conductor replacement (covered conductor). d) Confirmation of whether the pole replacement is based on safety factor. e) Whether the pole was actually replaced.</p>	Holly Waterman	10/31/2023	11/4/2023	11/4/2023	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy
446	CAIPA	Sat WMP-13	CAIPA_Sat WMP-13	8	CAIPA_Sat WMP-13_Q8	<p>For each year from 2020 through 2023, please provide ten randomly selected pole loading calculations performed as part of all bare-to-covered conductor replacement projects. For these calculations, please provide: a) The full calculation spreadsheet. b) Any interpretations associated with the calculation for example, an engineer's determination that the calculation demonstrates a pole must be replaced.</p>	Holly Waterman	10/31/2023	11/4/2023	11/4/2023	1	NA	7.2	Wildfire Mitigation Strategy Development	Wildfire Mitigation Strategy
447	OEIS	OIS	OEIS_OIS_01	1	OEIS_OIS_01	<p>Regarding confirmation of 2024/2025 tags. PG&E's 2023/2024 WMP Revision 1 Table 8.1.7.2 (page 555) shows that PG&E expects to close 65,200 loading distribution ignition risk tags in 2024 and 65,000 loading distribution ignition risk tags in 2025. PG&E's response in Tables 8.1.7.2 and 8.1.7.2.2 (page 555) do not reflect the same expected number of loading ignition risk tags as outlined in Table 8.1.7.2, as they have shown fewer tags of closing 46,000 distribution loading tags in 2024 and 46,000 distribution loading tags in 2025. c) Confirm that PG&E intends to be targeted to close and commence make in 2023/2024 WMP Revision 1 Table 8.1.7.2 (page 555). d) If not, explain the discrepancy between the commit to close 65,200 loading distribution ignition risk tags in 2024 and 65,000 loading distribution ignition risk tags in 2025 (Table 8.1.7.2, page 555) to the targets outlined in Tables 8.1.7.2 and WMP-G&E-23-04-2.</p>	Dakota Smith	11/09/2023	11/09/2023	11/09/2023	0	NA	8.1.7	Open Work Orders	NA
448	CAIPA	Sat WMP-13	CAIPA_Sat WMP-13	1	CAIPA_Sat WMP-13_Q1	<p>Please provide an Excel sheet listing (as rows) each asset work order (or "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) Asset type: Distribution or transmission d) OIS Risk (1-5) e) Utility-specific priority level (A or B) f) Date the tag was originally created g) Date the date of the original work order h) Most recent date the work order was resubmitted or modified (if applicable) i) Date the work order was completed & closed, if applicable j) Date the work order was closed, if applicable k) Note: work in progress should match the OIS for 12/31/2023.</p>	Aaron Loebe	11/09/2023	11/09/2023	11/09/2023	1	NA	8.1.7	Open Work Orders	NA
449	CAIPA	Sat WMP-13	CAIPA_Sat WMP-13	2	CAIPA_Sat WMP-13_Q2	<p>Please provide an Excel sheet listing (as rows) each asset work order (or "tag") that was open as of September 25, 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) Asset type: Distribution or transmission d) OIS Risk (1-5) e) Utility-specific priority level (A or B) f) Date the tag was originally created g) Date the date of the original work order h) Most recent date the work order was resubmitted or modified (if applicable) i) Date the work order was completed & closed, if applicable j) Date the work order was closed, if applicable k) Note: work in progress should match the OIS for 12/31/2023.</p>	Aaron Loebe	11/09/2023	11/09/2023	11/09/2023	1	NA	8.1.7	Open Work Orders	NA
450	CAIPA	Sat WMP-13	CAIPA_Sat WMP-13	3	CAIPA_Sat WMP-13_Q3	<p>Please provide an Excel sheet listing (as rows) each asset work order (or "tag") that was open as of September 27, 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) Asset type: Distribution or transmission d) OIS Risk (1-5) e) Utility-specific priority level (A or B) f) Date the tag was originally created g) Date the date of the original work order h) Most recent date the work order was resubmitted or modified (if applicable) i) Date the work order was completed & closed, if applicable j) Date the work order was closed, if applicable k) Note: work in progress should match the OIS for 12/31/2023.</p>	Aaron Loebe	11/09/2023	11/09/2023	11/09/2023	1	NA	8.1.7	Open Work Orders	NA
451	CAIPA	Sat WMP-14	CAIPA_Sat WMP-14	1	CAIPA_Sat WMP-14_Q1	<p>The following questions pertain to PG&E's 2023/2024 WMP Revision 3, submitted on September 27, 2023. a) Page 1122 of your 2023 WMP-13 discusses the 2022 EPSS Reliability Study's Multiple Outage Review (MOR). Please refer to Energy Partner PG&E Independent Safety Review (ISR) Report, October 5, 2023 (ISR Report) and discuss the MOR program at p. 12, item 9.5. b) In 2022, over 200 circuits underwent these multi-review, parallelized MORs with assurance of these circuits being on their second or third review through each Asset, generating an additional 103 MORs in action items." c) Please provide a table or Excel sheet showing the results of each MOR for 2022, including the following in separate columns: i) The CPZ that underwent review. ii) The result of each CPZ's review. iii) If the CPZ's review had action items generated. iv) Details about each action item, if applicable. v) If an action item was not created, provide a brief explanation as to why. vi) The date each action item was completed, if applicable. vii) The date each action item was not completed by its due date, provide a brief explanation as to why it was not completed on time. viii) Please provide a table or Excel sheet showing the results of each MOR for 2023, including the following in separate columns: i) The CPZ that underwent review. ii) The result of each CPZ's review. iii) If the CPZ's review had action items generated. iv) Details about each action item, if applicable. v) If an action item was not created, provide a brief explanation as to why. vi) The result of each action item. vii) The date each action item was completed, if applicable. viii) If an action item which was not completed by its due date, provide a brief explanation as to why it was not completed on time.</p>	Justin Hegler	12/1/2023	6/19/2024	6/19/2024	1	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings
452	CAIPA	Sat WMP-14	CAIPA_Sat WMP-14	2	CAIPA_Sat WMP-14_Q2	<p>a) Please explain the criteria for including a CPZ in a MOR for 2022. b) Please explain the criteria for not including a CPZ in a MOR for 2022. c) Please explain the criteria for including a CPZ in a MOR for 2023. d) Please explain the criteria for not including a CPZ in a MOR for 2023.</p>	Justin Hegler	12/1/2023	5/19/2024	5/19/2024	0	NA	2022 WMP Section 7.1	Wildfire Mitigation Strategy Development	NA
453	CAIPA	Sat WMP-14	CAIPA_Sat WMP-14	3	CAIPA_Sat WMP-14_Q3	<p>Regarding circuits with EPSS capabilities: a) Provide a table or Excel sheet of complaints and claims filed by customers related to outages on circuits with EPSS ratings enabled at the time of outage. For each item, provide the following information in separate columns: i) The Circuit name and ID associated with the complaint. ii) The date each complaint or claim was received. iii) Description of each complaint/claim. iv) Date the date of each complaint/claim. v) Resolution of each complaint/claim. vi) Date the date of each resolution. vii) Provide an updated excel table of EPSS Outages Monthly Report, 2020/20118 excel" provided to SED that includes a column for "CPZ" in the "EPSS Outages - 2021 Season" tab.</p>	Justin Hegler	12/1/2023	5/19/2024	5/19/2024	3	NA	8.1.8.1.1	Grid Operations and Procedures	Protective Equipment and Device Settings

505	CaPA	Sat WMP-36	CaPA_Sat WMP-36	3	CaPA_Sat WMP-36_03	<p>Table 7 of POSE's 2023 Q4 ODR does not reflect the planned or actual net addition or removal values reported in Table 8.</p> <p>W/ Please explain this discrepancy: (1) Table 7 or Table 8 is incorrect? (2) Table 7 and Table 8 are both correct?</p>	<p>The data used in Table 7 is extracted from PG&E's GIS systems, and other critical information. The data in PG&E's GIS systems are also utilized for the submission of the System Quarterly Data Report. Per the Data Guidelines, Table 7 breaks down fully equipped and customer counts across various service areas categorized by region.</p> <p>Table 8 provides a summary of projected and actual additions or removals of equipment for each category across various service areas categorized by region. For example, the calculation of Q4 2023's removals is the difference between Q4 2023 and Q4 2022 to obtain the value.</p> <p>Table 7 and Table 8 are both correct, and Table 8 is formulaically derived from Table 7.</p>	Franky Luo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-03-29-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	QDR	NA	NA
506	CaPA	Sat WMP-36	CaPA_Sat WMP-36	4	CaPA_Sat WMP-36_04	<p>Table 9 of POSE's 2023 Q4 ODR reports on the utility's infrastructure upgrades.</p> <p>W/ Please provide clarification on the PG&E response and uses the term "utility infrastructure upgrades". (1) In the data guidelines version 3.2, these values are always "None, null, or blank". Please explain the negative values reported for metric number 1.3.3.1 in Q3 2023 and Q4 2023.</p>	<p>For our 2023 QDR submission, the term "utility infrastructure upgrades" encompasses all work performed under GRC-01, specifically overhead conductor line work, undergrounding, and line removal. Additional details about this work can be found in WMP commitment 01-01, System Hardware, in Section 8.2.1.2 of our 2023-2026 WMP pages 206-209.</p> <p>The negative values were a result of an error. Upon review of the calculation and associated method used to report the data reported in Table 9, we corrected the formula to accurately reflect the data. A portion of our Critical Miles Plan for 2024.</p> <p>Please see the updated Table 9 below, with the corrections incorporated into the Table 9 template. The data included below is the cumulative year-to-date System Hardware metrics compiled by quarter based on GRC-01 WMP target commitment. PG&E will submit a completed GCRS in Progress Safety Data Report.</p> <p>The most relevant values for understanding projects beyond the year in which the project becomes operational (i.e. is identified). Any undergrounding project made operational in 2023-2026 will be recovered through PG&E's 2022 General Rate Case (GRC) via the Utilities Migration Balancing Account (UMBA). 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's intent is to launch the SB 884 10-Year Undergrounding program in 2027, PG&E is currently awaiting for our SB 884 Plan period from Energy Safety. Based on the review timeline of the legislation (i.e. nine-month review by Energy Safety, two months for electric utilities to submit to the CPUC, and six-month review by CPUC), final guidelines are issued in early 2024. The earliest we could possibly receive approval for our SB 884 Plan period recovery would be in mid 2024. Thus, PG&E anticipates our Plan period would begin around 1, 2027.</p> <p>The negative values included in our 2023 QDR includes the undergrounding work that is planned to be completed in 2024 as approximately 1.5 miles. These values only include projects in Maintenance Activity Type (MAT) codes 3000-3999. These values do not include recovery projects changes to our operational program, given the global undergrounding program lifecycle of approximately two or more years. Identifying projects in 2027 will require project readiness work in 2023 and 2024. Thus, PG&E would begin recovery in 2023 and 2024 and projects that will become used and useful in the SB 884 Plan period of 2027 and beyond. PG&E's current forecasted undergrounding work for projects that become operational during the SB 884 Plan period. Any overhead line work projects will be completed in the 2023-2026 GRC timeframe and will continue to be recovered through PG&E's next GRC period via the UMBA.</p>	Franky Luo	3/8/2024	3/29/2024	3/29/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-03-29-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	QDR	NA	NA
507	CaPA	Sat WMP-40	CaPA_Sat WMP-40	1	CaPA_Sat WMP-40_01	<p>POSE states on page 23 of its 2025 WMP Update regarding its solicitation for undergrounding and covered conductor projects.</p> <p>POSE is currently refining its solicitation for overhead line work and undergrounding projects through the use of the GRC period (2025) to account for the decision provided in D-23-11-069. As requested, PG&E's Phase 2023-2026 WMP #4 at other substation voltage levels or forecasts: 150 miles in 2023, 250 miles in 2024, and 440 miles in 2025.</p> <p>W/ Please respond to undergrounding projects specifically: (1) D-23-11-069 sets annual risk reduction targets to be achieved by undergrounding 4 in the 2023-2026 WMP period as well as, does PG&E currently expect to do above, meet, or exceed the risk reduction target established in the GRC proceeding? (2) According to PG&E's current solicitation, what is the amount of risk reduction that PG&E expects to achieve in 2024 due to undergrounding projects? (3) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (4) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (5) Does PG&E anticipate completing additional undergrounding mileage in 2023-2026 beyond the GRC-authorized 2,283 undergrounding miles? (6) If yes, please include the number of miles and PG&E's intended cost recovery venue for said miles.</p>	<p>The most relevant values for understanding projects beyond the year in which the project becomes operational (i.e. is identified). Any undergrounding project made operational in 2023-2026 will be recovered through PG&E's 2022 General Rate Case (GRC) via the Utilities Migration Balancing Account (UMBA). 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's intent is to launch the SB 884 10-Year Undergrounding program in 2027, PG&E is currently awaiting for our SB 884 Plan period from Energy Safety. Based on the review timeline of the legislation (i.e. nine-month review by Energy Safety, two months for electric utilities to submit to the CPUC, and six-month review by CPUC), final guidelines are issued in early 2024. The earliest we could possibly receive approval for our SB 884 Plan period recovery would be in mid 2024. Thus, PG&E anticipates our Plan period would begin around 1, 2027.</p> <p>The negative values included in our 2023 QDR includes the undergrounding work that is planned to be completed in 2024 as approximately 1.5 miles. These values only include projects in Maintenance Activity Type (MAT) codes 3000-3999. These values do not include recovery projects changes to our operational program, given the global undergrounding program lifecycle of approximately two or more years. Identifying projects in 2027 will require project readiness work in 2023 and 2024. Thus, PG&E would begin recovery in 2023 and 2024 and projects that will become used and useful in the SB 884 Plan period of 2027 and beyond. PG&E's current forecasted undergrounding work for projects that become operational during the SB 884 Plan period. Any overhead line work projects will be completed in the 2023-2026 GRC timeframe and will continue to be recovered through PG&E's next GRC period via the UMBA.</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	8.1.2	Section 8.1.2 - Grid Design and System Hardware	8.1.2.2 Undergrounding of electric lines and/or equipment
508	CaPA	Sat WMP-40	CaPA_Sat WMP-40	2	CaPA_Sat WMP-40_02	<p>POSE states on page 23 of its 2025 WMP Update regarding its solicitation for undergrounding projects.</p> <p>POSE is currently refining its solicitation for overhead line work and undergrounding projects through the use of the GRC period (2025) to account for the decision provided in D-23-11-069. Additionally, PG&E's Phase 2023-2026 WMP #4 at other substation voltage levels or forecasts: 150 miles in 2023, 250 miles in 2024, and 440 miles in 2025.</p> <p>W/ Please respond to undergrounding projects specifically: (1) D-23-11-069 sets annual risk reduction targets to be achieved by undergrounding 4 in the 2023-2026 WMP period as well as, does PG&E currently expect to do above, meet, or exceed the risk reduction target established in the GRC proceeding? (2) According to PG&E's current solicitation, what is the amount of risk reduction that PG&E expects to achieve in 2024 due to undergrounding projects? (3) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (4) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (5) Does PG&E anticipate completing additional undergrounding mileage in 2023-2026 beyond the GRC-authorized 2,283 undergrounding miles? (6) If yes, please include the number of miles and PG&E's intended cost recovery venue for said miles.</p>	<p>POSE intends to meet the cumulative system hardware risk reduction requirement of 1% by 2026, using the risk reduction methodology described in Advice Letter 1750-E-A.</p> <p>Based on the workshop of February 22, 2024, and using the GRC risk reduction methodology described in Advice Letter 1750-E-A, the 2024 targeted information risk reduction for undergrounding projects is currently forecasted to be approximately 1.0%.</p> <p>Using the WMP risk reduction method (link reduction based on WORM) only, the expected information risk reduction for undergrounding projects currently forecasted for completion in 2024 is approximately 0.5%.</p> <p>Note: these values only include projects in Maintenance Activity Type (MAT) codes 3000-3999.</p> <p>Annual risk reduction forecasts established in D-23-11-069 are cumulative for the GRC period 2023-2026. Risk reduction forecasts for individual years are not established. The response to submit D-23-11-069 includes the undergrounding contribution to the GRC risk reduction target for the 2023-2026 period. The values above and shown in the table below represent the annual risk reduction target for the 2023-2026 period. The values above and shown in the table below represent the annual risk reduction target for the 2023-2026 period. The values above and shown in the table below represent the annual risk reduction target for the 2023-2026 period.</p> <p>Year 1: 0.5% Year 2: 0.5% Cumulative Risk Reduction Target: 1.0% (0.5% + 0.5%)</p> <p>For all system hardware work, including overhead covered conductor, underground and line removal, the 2024 cumulative risk reduction target established in D-23-11-069 is 1% for 2023-2024. Based on the system hardware mileage of all February 22, 2024 and using the GRC risk reduction methodology described in Advice Letter 1750-E-A, PG&E's current forecasted cumulative risk reduction for system hardware in 2023-2024 is 4.7% (MAT codes 3000 and 0800 only). The actual risk reduction values of completed forecasted system hardware work is expected to meet the overall cumulative target of 1% by 2024.</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardware	8.1.2.2 Undergrounding of electric lines and/or equipment
509	CaPA	Sat WMP-40	CaPA_Sat WMP-40	3	CaPA_Sat WMP-40_03	<p>POSE states on page 23 of its 2025 WMP Update regarding its solicitation for covered conductor projects.</p> <p>POSE is currently refining its solicitation for overhead line work and undergrounding projects through the use of the GRC period (2025) to account for the decision provided in D-23-11-069. This report is covered conductor projects specifically: (1) D-23-11-069 sets annual risk reduction targets to be achieved by installing covered conductor. In the 2023-2026 WMP period as well as, does PG&E currently expect to do above, meet, or exceed the risk reduction target established in the GRC proceeding? (2) According to PG&E's current solicitation, what is the amount of risk reduction that PG&E expects to achieve in 2024 due to covered conductor projects? (3) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (4) How does PG&E intend to compare to the risk reduction target established in D-23-11-069? (5) Does PG&E anticipate completing additional covered conductor mileage in 2023-2026 beyond the GRC-authorized 778 covered conductor miles? (6) If yes, please include the number of miles and PG&E's intended cost recovery venue for said miles.</p>	<p>POSE intends to meet the cumulative system hardware risk reduction requirement of 1% by 2026, using the risk reduction methodology described in Advice Letter 1750-E-A.</p> <p>Based on the workshop of February 22, 2024, and referencing the GRC risk reduction methodology described in Advice Letter 1750-E-A, the 2024 targeted information risk reduction for overhead is currently forecasted to be approximately 0.9%.</p> <p>Using the WMP risk reduction method (link reduction based on WORM) only, the expected information risk reduction for overhead projects currently forecasted for completion in 2024 is approximately 0.7%.</p> <p>Note: these values only include projects in Maintenance Activity Type (MAT) codes 3000-3999.</p> <p>Annual risk reduction forecasts established in D-23-11-069 are cumulative for the GRC period 2023-2026. Risk reduction forecasts for individual years are not established. The response to submit D-23-11-069 includes the overhead contribution to the GRC risk reduction target for the 2023-2026 period. The values above and shown in the table below represent the annual risk reduction target for the 2023-2026 period. The values above and shown in the table below represent the annual risk reduction target for the 2023-2026 period.</p> <p>Year 1: 0.5% Year 2: 0.5% Cumulative Risk Reduction Target: 1.0% (0.5% + 0.5%)</p> <p>For all system hardware work, including overhead covered conductor, underground and line removal, the 2024 cumulative risk reduction target established in D-23-11-069 is 1% for 2023-2024. Based on the system hardware mileage of all February 22, 2024 and using the GRC risk reduction methodology described in Advice Letter 1750-E-A, PG&E's current forecasted cumulative risk reduction for system hardware in 2023-2024 is 4.7% (MAT codes 3000 and 0800 only). The actual risk reduction values of completed forecasted system hardware work is expected to meet the overall cumulative target of 1% by 2024.</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardware	8.1.2.1 Covered Conductor Installation - Distribution
510	CaPA	Sat WMP-40	CaPA_Sat WMP-40	4	CaPA_Sat WMP-40_04	<p>POSE states on page 23 of its 2025 WMP Update. "POSE proposes to add a 2025 target (System Hardware - Transmission Conductor Segment Replacement (GCRS)) to perform conductor segment replacement on our Transmission Lines."</p> <p>W/ Please explain the above work requested and authorized in PG&E's Test Year 2023 GCRS. (1) If yes, please provide the width and page number in PG&E's Test Year 2023 GCRS document that discusses the work, as well as the relevant Major Activity Type (MAT) codes only. (2) If no, please provide the final authorized funding amount for the program as set forth in D-23-11-069, with a brief explanation of the funding.</p>	<p>No System Hardware - Transmission Conductor Segment Replacement was not proposed or authorized in the 2023 General Rate Case (GRC).</p> <p>If not applicable, please see the response to submit (b). If not applicable, please see the response to submit (b).</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	8	Section 8.1.2 - Grid Design and System Hardware	8.1.2.5 Traditional Overhead Hardware - Transmission Conductor
511	CaPA	Sat WMP-40	CaPA_Sat WMP-40	5	CaPA_Sat WMP-40_05	<p>POSE states on page 3 of its 2025 WMP Update that it is introducing a new evolution of its Wireline Distribution Risk Model (WDRM), called WDRM v4. Below, "the table below" is expected to inform some information about WDRM v4 in 2025 and other prioritized long-cycle work in 2025 and beyond." (1) Please identify each WMP initiative for which WDRM v4 is expected to "inform prioritized long-cycle work in 2025." (2) Please identify each WMP initiative for which WDRM v4 is expected to "inform prioritized long-cycle work in 2025 and beyond." (3) When WDRM v4 begins to inform the scoping and execution of undergrounding projects? (4) When does PG&E expect to begin contributing to undergrounding projects that are impacted by WDRM v4? (5) When will WDRM v4 begin to inform the scoping and execution of covered conductor projects? (6) When does PG&E expect to begin contributing to covered conductor projects that are impacted by WDRM v4?</p>	<p>At all times, 2023 initiatives are and have been decommissioned. WDRM v4 is expected to "inform risk prioritized long-cycle work in 2025" and "inform risk prioritized long-cycle work in 2025 and beyond." PG&E's 2023-2026 WMP will continue to be completed on the WDRM v4 for long-term.</p> <p>WDRM v4 will begin to inform scoping of undergrounding projects as early as the second half of 2024 for undergrounding projects impacted by WDRM v4 in 2027 and beyond.</p> <p>For undergrounding projects impacted by WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for civil construction may begin in 2026 and projects to be completed in 2027.</p> <p>WDRM v4 will begin to inform scoping of overhead hardware (covered conductor) projects as early as the second half of 2024 for projects impacted by WDRM v4 in 2027 and beyond.</p> <p>For overhead hardware (covered conductor) projects impacted by WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for civil construction may begin in 2026 and projects to be completed in 2027.</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
512	CaPA	Sat WMP-40	CaPA_Sat WMP-40	6	CaPA_Sat WMP-40_06	<p>POSE states on page 3 of its 2025 WMP Update that it is introducing a new evolution of its Wireline Distribution Risk Model (WDRM), called WDRM v4. Below, "the table below" is expected to inform some information about WDRM v4 in 2025 and other prioritized long-cycle work in 2025 and beyond." (1) When WDRM v4 begins to inform the scoping and execution of undergrounding projects? (2) When does PG&E expect to begin contributing to undergrounding projects that are impacted by WDRM v4? (3) When will WDRM v4 begin to inform the scoping and execution of covered conductor projects? (4) When does PG&E expect to begin contributing to covered conductor projects that are impacted by WDRM v4?</p>	<p>At all times, 2023 initiatives are and have been decommissioned. WDRM v4 is expected to "inform risk prioritized long-cycle work in 2025" and "inform risk prioritized long-cycle work in 2025 and beyond." PG&E's 2023-2026 WMP will continue to be completed on the WDRM v4 for long-term.</p> <p>WDRM v4 will begin to inform scoping of undergrounding projects as early as the second half of 2024 for undergrounding projects impacted by WDRM v4 in 2027 and beyond.</p> <p>For undergrounding projects impacted by WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for civil construction may begin in 2026 and projects to be completed in 2027.</p> <p>WDRM v4 will begin to inform scoping of overhead hardware (covered conductor) projects as early as the second half of 2024 for projects impacted by WDRM v4 in 2027 and beyond.</p> <p>For overhead hardware (covered conductor) projects impacted by WDRM v4, PG&E anticipates that some planning activities in 2025 and preparatory work for civil construction may begin in 2026 and projects to be completed in 2027.</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
513	CaPA	Sat WMP-40	CaPA_Sat WMP-40	7	CaPA_Sat WMP-40_07	<p>POSE states on page 3 of its 2025 WMP Update that it is introducing a new evolution of its Wireline Distribution Risk Model (WDRM), called WDRM v4. Below, "the table below" is expected to inform some information about WDRM v4 in 2025 and other prioritized long-cycle work in 2025 and beyond." (1) When WDRM v4 begins to inform the scoping and execution of undergrounding projects? (2) When does PG&E expect to begin contributing to undergrounding projects that are impacted by WDRM v4? (3) When will WDRM v4 begin to inform the scoping and execution of covered conductor projects? (4) When does PG&E expect to begin contributing to covered conductor projects that are impacted by WDRM v4?</p>	<p>No System Hardware - Transmission Conductor Segment Replacement was not proposed or authorized in the 2023 General Rate Case (GRC).</p> <p>If not applicable, please see the response to submit (b). If not applicable, please see the response to submit (b).</p>	Mica Gordon	4/5/2024	4/10/2024	4/10/2024	https://www.pge.com/content/dam/pg-and-e/external/2024-04-10-odr-reports/2023-2024-odr-report-ca-pa.pdf	0	NA	11.4	Appendix D - Assets for Continued Improvement	11.4 ACI PG&E-23-06 - Updating Grid Hardware Working Model

527	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	5	MGRA_Data_Request_No_9_05	<p>PSGP: Reduce PSPS impacts to Customers (Section 11.13)</p> <p>For the 22A to 19, reduction in customer exposed to PSPS events, how much of that is due to (a) undergrounding (b) Microbial Switch Operations (MSOs), and (c) other factors.</p>	<p>All of the reduction from 22A to 19 is attributed to undergrounding. As mentioned in section 8.2.1.3 of the 2023 WMP, the level of undergrounding for 2023 was reduced from 550 miles to 330 miles, therefore the reduction in customer events mitigated correspondingly. The 2023 WMP also identified additional undergrounding opportunities. No customer events mitigated from Microbial Switch Operations (MSO) implementations are expected in 2023 as the program is expected to be completed in 2024.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	8.1.5	9.0 Public Safety Power Shutoff	8.1.5 Performance Metrics Identified by the Electrical Corporation
528	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	6	MGRA_Data_Request_No_9_06	<p>Explain how MSD reduces PSPS incidence.</p>	<p>For clarification, Microbial Switch Operator (MSO) devices do not reduce PSPS incidence. It is rather the scope of customer impact during a PSPS event. While MSD devices are intended to serve as an asset/contingency device, PGEA identified MSD devices as an ignition risk when operated while energized due to the chance of an MSD device. As a result, MSD devices are not operated while energized, but must first be de-energized before they are operated. If an MSD device is selected for a PSPS event, the main upstream non-MSO device that had to be used to temporarily de-energize the MSD device, so that the MSD device can be operated while de-energized. The device is then re-energized and energized up to the main MSD device. This procedure minimizes the ignition risk from the MSD device but results in a short duration PSPS outage for the customers located between the MSD device and the upstream device. If the MSD device is replaced with a non-MSO device such as a substation, switchgear, and other vacuum switch equipment approved for current usage, these short duration outage customers will no longer experience any outage during the PSPS event because the replacement device can be operated directly without need to de-energize the device.</p> <p>After Microbial Switch Operator (MSO) devices are not available, their protection was therefore not part of EPSS. As part of the MSD initiation in the WMP, these units are being replaced with either a vacuum switch or a vacuum switch. If the replacement option is selected, these replacement devices will have EPSS capability and be enabled during EPSS weather conditions.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	8.1.5	9.0 Public Safety Power Shutoff	8.1.5 Performance Metrics Identified by the Electrical Corporation
529	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	7	MGRA_Data_Request_No_9_07	<p>Does MSD also allow for EPSS to be enabled as a function of weather conditions?</p>	<p>The EPSS is enabled and disabled based on forecasted weather conditions. EPSS settings are enabled or disabled based on criteria approved by our Weather Risk Governance Steering Committee. This criteria is based on 24-hour model outputs from the Project Risk (PR) model. PGEA's EPSS model is designed to identify localized wildfire risk based on a variety of key risk indicators derived from the science used in business operations.</p> <p>The reported localized average effectiveness for A9-B was based on a study focused on specific subset of critical circuits where REFL could be utilized. The same A9-B analysis cannot be performed assuming all circuits are REFL enabled. The REFL analysis was applied to a subset of critical circuits.</p> <ul style="list-style-type: none"> Single outage 3 to 4 in a day Minimum 1000 miles in WT Level 1 Less than 20% of critical plant subsides. <p>The effectiveness of our mitigation plans (CC Overhaul, EPSS, DCC) on the A9-B population is less in comparison to that of the full population in the A9-B study. Therefore, the reported effectiveness of A9-B is conservative.</p> <p>This is not feasible to provide based on the methodology of PGEA's study. Mitigation effectiveness cannot be provided based on a 90% overall wildfire risk. The effectiveness is not an input. Rather, the average effectiveness value of 86.4% is the result of assessing the effectiveness of the mitigation measures against the 2000 miles of failures, each with an effectiveness ranging from 0% to 100%. Much of the failures are covered by other mitigation, and combinations of mitigations, such as EPSS. Because of that, we chose a more granular analysis of outage causes to assign effectiveness to differentiate the multiple combined mitigations. We are not able to provide overall, specific.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	8.1.8.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
530	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	8	MGRA_Data_Request_No_9_08	<p>If not, is EPSS enabled based on weather conditions and if so how?</p>	<p>The EPSS is enabled and disabled based on forecasted weather conditions. EPSS settings are enabled or disabled based on criteria approved by our Weather Risk Governance Steering Committee. This criteria is based on 24-hour model outputs from the Project Risk (PR) model. PGEA's EPSS model is designed to identify localized wildfire risk based on a variety of key risk indicators derived from the science used in business operations.</p> <p>The reported localized average effectiveness for A9-B was based on a study focused on specific subset of critical circuits where REFL could be utilized. The same A9-B analysis cannot be performed assuming all circuits are REFL enabled. The REFL analysis was applied to a subset of critical circuits.</p> <ul style="list-style-type: none"> Single outage 3 to 4 in a day Minimum 1000 miles in WT Level 1 Less than 20% of critical plant subsides. <p>The effectiveness of our mitigation plans (CC Overhaul, EPSS, DCC) on the A9-B population is less in comparison to that of the full population in the A9-B study. Therefore, the reported effectiveness of A9-B is conservative.</p> <p>This is not feasible to provide based on the methodology of PGEA's study. Mitigation effectiveness cannot be provided based on a 90% overall wildfire risk. The effectiveness is not an input. Rather, the average effectiveness value of 86.4% is the result of assessing the effectiveness of the mitigation measures against the 2000 miles of failures, each with an effectiveness ranging from 0% to 100%. Much of the failures are covered by other mitigation, and combinations of mitigations, such as EPSS. Because of that, we chose a more granular analysis of outage causes to assign effectiveness to differentiate the multiple combined mitigations. We are not able to provide overall, specific.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	8.1.8.1.1	8.1.8 Grid Operations and Procedures	8.1.8.1.1 Protective Equipment and Device Settings
531	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	9	MGRA_Data_Request_No_9_09	<p>Table ACI-PG&E-23-05-3, Ignition mitigation effectiveness for A4 - Covered conductor + EPSS, effectiveness is 86%. Is it accurate to add additional mitigations to reduce the effectiveness to 80%? How do you perform this as a circuit analysis, not a substation analysis, assuming circuits are REFL enabled?</p>	<p>The effectiveness of our mitigation plans (CC Overhaul, EPSS, DCC) on the A9-B population is less in comparison to that of the full population in the A9-B study. Therefore, the reported effectiveness of A9-B is conservative.</p> <p>This is not feasible to provide based on the methodology of PGEA's study. Mitigation effectiveness cannot be provided based on a 90% overall wildfire risk. The effectiveness is not an input. Rather, the average effectiveness value of 86.4% is the result of assessing the effectiveness of the mitigation measures against the 2000 miles of failures, each with an effectiveness ranging from 0% to 100%. Much of the failures are covered by other mitigation, and combinations of mitigations, such as EPSS. Because of that, we chose a more granular analysis of outage causes to assign effectiveness to differentiate the multiple combined mitigations. We are not able to provide overall, specific.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
532	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	10	MGRA_Data_Request_No_9_10	<p>Please provide the above table ACI-PG&E-23-05-3 under the assumption that Covered Conductor wildfire ignition mitigation effectiveness is 85%, not 86.4%.</p>	<p>The effectiveness of our mitigation plans (CC Overhaul, EPSS, DCC) on the A9-B population is less in comparison to that of the full population in the A9-B study. Therefore, the reported effectiveness of A9-B is conservative.</p> <p>This is not feasible to provide based on the methodology of PGEA's study. Mitigation effectiveness cannot be provided based on a 90% overall wildfire risk. The effectiveness is not an input. Rather, the average effectiveness value of 86.4% is the result of assessing the effectiveness of the mitigation measures against the 2000 miles of failures, each with an effectiveness ranging from 0% to 100%. Much of the failures are covered by other mitigation, and combinations of mitigations, such as EPSS. Because of that, we chose a more granular analysis of outage causes to assign effectiveness to differentiate the multiple combined mitigations. We are not able to provide overall, specific.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
533	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	11	MGRA_Data_Request_No_9_11	<p>o. 51 - Non-Underground Mitigation This consideration of location-specific benefits and risks is consistent with the prior decision-how approach we used to assess projects and mitigate for consideration in 2023. In what ways does the new calculation differ from the previous decision-based analysis and in what ways does it differ?</p>	<p>Please reference the table below for presentation materials for the workshops identified. Following the Attachment Name Kickoff and Consultation Testing Date: May 3, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4401.pdf Using Scenario/Model Date: June 12, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4402.pdf New Technologies Date: July 15, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4403.pdf Maintenance and Operations Date: July 24, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4404.pdf Effectiveness Testing Date: August 7, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4405.pdf Technology The Attachment Name New Technologies - EPD Date: September 20, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4406.pdf New Technologies Date: September 20, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4407.pdf</p> <p>PGEA has reviewed selected critical/circuit segments with known undergrounding obstacles for Early Fault Detection (EFD) equipment.</p>	Joseph Michael	482024	4112004	4122004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-05 - Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
534	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	12	MGRA_Data_Request_No_9_12	<p>Table ACI-PG&E-23-05-01 Please provide the slides presented at these workshops, redacted for any confidential material.</p>	<p>Please reference the table below for presentation materials for the workshops identified. Following the Attachment Name Kickoff and Consultation Testing Date: May 3, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4401.pdf Using Scenario/Model Date: June 12, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4402.pdf New Technologies Date: July 15, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4403.pdf Maintenance and Operations Date: July 24, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4404.pdf Effectiveness Testing Date: August 7, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4405.pdf Technology The Attachment Name New Technologies - EPD Date: September 20, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4406.pdf New Technologies Date: September 20, 2023 WMP-Discovery2023-2023_DR_MGRA_009-Q012A4407.pdf</p> <p>PGEA has reviewed selected critical/circuit segments with known undergrounding obstacles for Early Fault Detection (EFD) equipment.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	7	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-06 - Continuation of Grid Hardening Joint Studies
535	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	13	MGRA_Data_Request_No_9_13	<p>Early Fault Detection/Distribution Fault Protection Are EFD circuits being deployed on circuits that are being scoped for undergrounding?</p>	<p>PGEA has reviewed selected critical/circuit segments with known undergrounding obstacles for Early Fault Detection (EFD) equipment.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
536	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	14	MGRA_Data_Request_No_9_14	<p>What would be the final year that a circuit will be undergrounded that might potentially be implemented with an EFD?</p>	<p>Not applicable, please see the response to Question No. 13 for an explanation.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
537	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	15	MGRA_Data_Request_No_9_15	<p>Please provide a list of responsible options for the last two years including the following: a) wiring system at the time of the ignition (R1, R1, R2, etc) b) whether circuit was implemented with active EPSS c) whether circuit was implemented with active DCC</p>	<p>Please see attachment "WMP-Discovery2023-2023_DR_MGRA_009-Q015A4401.xlsx" for the requested information. Please note that the subject (a) PGEA produces Fire Potential Index (FPI) ratings only for circuits with a Fire Index Area (FIA).</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
538	MGRA	Data Request No. 9	MGRA_Data_Request_No_9	16	MGRA_Data_Request_No_9_16	<p>Please provide a list of ratings for the last two years including the following additional attributes: a) wiring system at the time of the outage (R1, R1, R2, etc) b) whether circuit was implemented with active DCC</p>	<p>Please see attachment "WMP-Discovery2023-2023_DR_MGRA_009-Q015A4401.xlsx" for the requested information.</p>	Joseph Michael	482024	4112004	4112004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Fire Potential Index (FPI) and Ignition Probability Weather (IPW) Enhancements
539	CaPA	Set WMP-42	CaPA_Set WMP-42	1	CaPA_Set WMP-42_01	<p>Page 10 of PGEA's 2023 WMP Update states that for version of PGEA's Wildfire Consequence Model (PGEA) increased the fire simulation time from eight to 24 hours. a) Is the reason why PGEA chose to increase the fire simulation time to 24 hours? b) Is PGEA aware of any potential detrimental effects associated with increasing the fire simulation time from eight to 24 hours? c) If the answer to part (b) is yes, list any such potential detrimental effects. d) What has PGEA done so far to validate the accuracy of 24-hour fire simulations?</p>	<p>a) There were two main drivers for evaluating and eventually settling longer fire simulations: 1) Grid connection, line terminations and the 80 model calculation for the WPRM of critical components during longer simulation times to capture fire impacts. 2) At the time of the 2023 WMP Update, PGEA was not aware of any potential detrimental effects associated with increasing the fire simulation time from eight to 24 hours. b) No. c) No. d) Not applicable, please see the response to subject (b) above. e) As outlined in the response to Request No. 502, there is a slightly more robust simulation in the response to subject (a) above.</p>	Holly Wetman	492024	4122004	4122004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	6.0	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence
540	CaPA	Set WMP-42	CaPA_Set WMP-42	2	CaPA_Set WMP-42_02	<p>Page 1021 of PGEA's 2023-2025 WMP R4 states, in response to ACI-PG&E-23-05, (b) that the reason why PGEA chose to increase the fire simulation time to 24 hours was to increase the accuracy of the fire simulation time. Sensitivity analysis is continuing, and PGEA will be able to provide results in 2023 that quantify the effectiveness of shorter versus longer simulation durations. a) Describe the result of the sensitivity analysis discussed above. b) Provide any written reports, notes, or other output of the sensitivity analysis discussed above.</p>	<p>a) PGEA ran comparisons of both 24-hour and 8-hour simulations for historical fires in the WFC. These fires were chosen from fires in California dated between 2015 and 2020 (restricted to the western). The plot below is a comparison between actual average burned acreage (y-axis) to each against simulated acreage burned by Technetree (x-axis) for 24-hour and 8-hour simulations. Every dot represents a historical fire and a selected Technetree simulation. The comparison between actual burned and Technetree simulated acreage burned is slight. Please see below for the output of the analysis. b) Before the simulation acreage (x) values and averaging the historical area (y) burned (dot) for each year, the plot below is a comparison between the trend in the data (y-axis) for each year where the area predictions are above the historical WFC data (x-axis) to mean that 24- to 72 simulations >1000 acres are more reliable predictors of larger historical fires. This is the primary support for settling 24-hour simulations in the WFC. c) Please see response to subject (a) above.</p>	Holly Wetman	492024	4122004	4122004	https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html https://www.pge.com/energy/your-service/undergrounding/undergrounding-projects/undergrounding-projects.html	0	NA	6.0	6.0 Risk Methodology and Assessment	6.2.2.2 Consequence

558	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	11	Ca/PA_Set WMP-43_011	<p>Pages 66-67 of PG&E's 2025 WMP Update list three workshops the Joint Utilities held with Energy Safety June 2023 Distribution Fault Mitigation 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 has on from each of the three workshops.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/17/2024	4/17/2024	4	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 - Continuation of Grid Hardening Joint Studies
558	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	11(b)	Ca/PA_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". Please verify whether PG&E possesses any meeting minutes associated with the workshops discussed in question 11.</p> <p>If you please provide these in response to this data request.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/24/2024	4/24/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 - Continuation of Grid Hardening Joint Studies
559	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	12	Ca/PA_Set WMP-43_012	<p>Page 67 of PG&E's 2025 WMP Update states, "In 2023, the utilities discussed the unit costs of CC and underpinning, and compared, at a high level, the different cost drivers." Provide the unit costs of underpinning that were discussed in 2023 for each of the Joint Utilities.</p> <p>List each of the efforts PG&E plans to make in 2024 to accelerate the REFLC pilot at the Calatunga substation.</p> <p>List any other findings from the monthly meetings in 2023 noted above.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/17/2024	4/17/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 - Continuation of Grid Hardening Joint Studies
559	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	12(b)	Ca/PA_Set WMP-43_012(b)	<p>CA/PAAdvises 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 10 which, we 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 you please provide these in response to this data request.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/24/2024	4/24/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 - Continuation of Grid Hardening Joint Studies
560	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	13	Ca/PA_Set WMP-43_013	<p>Page 68 of PG&E's 2025 WMP Update states, with regard to the REFLC pilot at the Calatunga substation, "Although we are committed to continuing this demonstration project, several factors have caused delays in commissioning the program, including equipment failure, 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>List three steps PG&E currently anticipates receiving actionable results from the REFLC pilot at the Calatunga substation.</p> <p>List each of the efforts PG&E plans to make in 2024 to accelerate the REFLC pilot at the Calatunga substation.</p> <p>List any other findings from the monthly meetings in 2023 noted above.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/17/2024	4/17/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies
561	CA/PA	Set WMP-43	Ca/PA_Set WMP-43	14	Ca/PA_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 deployment of these technologies, having deployed EFD technology on 103 locations over 8 distribution circuits and DFA technology at 79 substations."</p> <p>List the approximate number of circuit miles on which EFD is currently active.</p> <p>List the approximate number of circuit miles on which DFA is currently active.</p> <p>List each of the efforts PG&E plans to make in 2024 to accelerate the REFLC pilot at the Calatunga substation.</p> <p>List any other findings from the monthly meetings in 2023 noted above.</p>	<p>1) Please see the table below for presentation materials for the workshops identified. Workshop Date & File Attachment Name June 2023 Distribution Fault Mitigation (DFA) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0401.pdf WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0402.pdf July 2023 Early Fault Detection (EFD) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0403.pdf August 2023 REFLC Current Limiter (REFCL) WMP-Dissemination-2023-2025_DR_Ca/PAAdvises_043-0011A0404.pdf</p> <p>2) No reports, minutes, recordings were taken or prepared at the referenced workshops. Please see the responses to subpart (a) for the presentation materials for the workshops.</p> <p>3) The findings from the workshops are as follows: 1) For the June 2023 DFA workshop, SCE and EOG&E are finding similar successes using the technology as PG&E. EOG&E is using a different system, however, we are able to proceed to underground cable buses. 2) For the July 2023 EFD workshop, SCE is finding similar successes using this technology as PG&E and is also using this technology on transmission lines. 3) For the August 2023 REFLC workshop, we did not have any specific findings or findings.</p> <p>4) PG&E's action items from these workshops is to continue the discussions and collaboration about use of EFD and DFA, and implement on WMP commitments for these technologies. We are also still evaluating the usage of REFLC to determine the optimal use case and implementation plan.</p>	Holly Wetman	4/12/2024	4/17/2024	4/17/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-07 - Deployment of New Technologies

599	OEIS	016	OEIS_016	2	OEIS_016_Q2	<p>D02: Regarding PG&E's Quarterly Targets for Routine Patrol</p> <p>In PG&E's 2023 WMP Update, PG&E sets quarterly targets for Routine Patrol – Distribution (10-16), 2023 and 2024 targets are included for reference.</p> <p>PG&E's Routine Patrol Targets by Year in Circuit Mileage</p> <p>End of Q2 End of Q3 End of Year</p> <p>2023 41,703 51,805 72,000 2024 52,000 58,588 78,000</p> <p>1. While PG&E's end of Q2 and end of Q3 targets for routine patrol decreased year-over-year since 2022? b. What percentage of PG&E's end of Q2 and end of Q3 2023 targets will be completed within the HF10? c. How will PG&E receive the HF10 and clear high risk areas: was requested in a timely manner to mitigate wildfire risk before and during wildfire season?</p> <p>While PG&E's end of year target has remained relatively constant from 2022 to 2023, the end of Q2 and end of Q3 targets have increased year-over-year.</p> <p>a. While PG&E's end of Q2 and end of Q3 targets for routine patrol decreased year-over-year since 2022? b. What percentage of PG&E's end of Q2 and end of Q3 2023 targets will be completed within the HF10? c. How will PG&E receive the HF10 and clear high risk areas: was requested in a timely manner to mitigate wildfire risk before and during wildfire season?</p>	Blair Hill	4/22/2024	4/25/2024	4/25/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-09 Increase in Desired Distribution Responses
600	OEIS	016	OEIS_016	3(a)	OEIS_016_Q2(a)	<p>D03: Regarding PG&E's Adjustments to its WORM</p> <p>In its 2023 WMP Update, PG&E discusses the changes made between its Wildfire Distribution Risk Model (WDRM) Version 3 (V3) to Version 4 (V4). Based off those changes, provide:</p> <p>a. An updated version of Table 6-5 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>b. An updated version of Table 6-6 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>c. An updated version of Figure 7-1 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>d. An updated version of Figure 7-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>e. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-PG&E-23-09 Question 17 showing the difference in output between V2 and V3.</p>	Blair Hill	4/22/2024	11/4/2024			NA	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
600	OEIS	016	OEIS_016	3	OEIS_016_Q3	<p>D03: Regarding PG&E's Adjustments to its WORM</p> <p>In its 2023 WMP Update, PG&E discusses the changes made between its Wildfire Distribution Risk Model (WDRM) Version 3 (V3) to Version 4 (V4). Based off those changes, provide:</p> <p>a. An updated version of Table 6-5 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>b. An updated version of Table 6-6 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>c. An updated version of Figure 7-1 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>d. An updated version of Figure 7-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>e. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-PG&E-23-09 Question 17 showing the difference in output between V2 and V3.</p>	Blair Hill	4/22/2024	4/25/2024	4/25/2024	0	NA	6	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
600	OEIS	016	OEIS_016	3(b)	OEIS_016_Q3(b)	<p>D03: Regarding PG&E's Adjustments to its WORM</p> <p>In its 2023 WMP Update, PG&E discusses the changes made between its Wildfire Distribution Risk Model (WDRM) Version 3 (V3) to Version 4 (V4). Based off those changes, provide:</p> <p>a. An updated version of Table 6-5 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>b. An updated version of Table 6-6 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>c. An updated version of Figure 7-1 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>d. An updated version of Figure 7-4 from its 2023-2025 WMP based on any changes made to the top risk circuit segments between V3 and V4.</p> <p>e. A graph demonstrating the overlaid risk scores between V3 and V4, similar to the graph provided in Data Request OEIS-PG&E-23-09 Question 17 showing the difference in output between V2 and V3.</p>	Blair Hill	4/22/2024	5/8/2024	5/8/2024	1	NA	6.1.2	Section 6 - Risk Methodology and Assessment	6.1.2 Summary of Risk Models
601	MGRA	Date Request No. 12	MGRA_Data Request No. 12	1	MGRA_Data Request No. 12_Q1	<p>Please provide an Excel spreadsheet giving the mapping between PG&E weather station IDs and the used by Synlogic for the PG&E weather if these IDs are different.</p>	Joseph Michael	4/25/2024	4/30/2024	4/29/2024	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-03 - Weather Station Maintenance and Calibration
602	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	1	Green Power Institute (GPI)_003_Q1	<p>Please provide any PG&E slides, meeting materials, and meeting minutes generated for and/or presented at the Joint IOU working sessions held in 2023 to discuss the different types of programs and practices each IOU has in place for disposing and recycling woody debris and vegetation (1)</p> <p>1) SDG&E 2023 WMP Update, April 2, 2024, pp. 50-53</p>	Zoe Harold	4/26/2024	5/1/2024	5/1/2024	0	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management
603	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	2	Green Power Institute (GPI)_003_Q2	<p>Please provide any PG&E slides, meeting materials, and meeting minutes generated for and/or presented at the Joint IOU meeting held in 2023 to discuss each utility's respective fuels management programs and regional collaboration on a possible ongoing study on best practices and efficacy of fuels management (2)</p> <p>2) SDG&E 2023 WMP Update, April 2, 2024, pp. 50-53</p>	Zoe Harold	4/26/2024	5/1/2024	5/1/2024	0	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management
604	Green Power Institute (GPI)	003	Green Power Institute (GPI)_003	3	Green Power Institute (GPI)_003_Q3	<p>Please provide a summary of any developments since the 2023 meeting and working sessions towards initiating a Joint IOU study on best practices and efficacy of fuels management, including but not limited to planned topics for inclusion in the ongoing study.</p>	Zoe Harold	4/26/2024	5/1/2024	5/1/2024	0	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2.3 Vegetation and Fuels Management

676	CaPA	Sat WMP-00	CaPA_Sat WMP-00	6	CaPA_Sat WMP-00_06	<p>Provide an Excel table that lists (see notes) each sustained outage that occurred from January 1, 2023 through December 31, 2023 on any of the circuits identified in your response to Question 5 of data request CaPA-Advocates-PGE-2023WMP-04. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Was EPSS enabled on this circuit at the time of the outage? e) If "No," What No Light? f) Outage End Day & Time g) CSED (Court of Customers Experiencing Sustained Outages) h) Customer Minutes i) Cause j) Distribution Type (Subtype)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information. Please note, column K indicates if the outage was sustained or non-sustained.</p>	Amanda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
677	CaPA	Sat WMP-00	CaPA_Sat WMP-00	7	CaPA_Sat WMP-00_07	<p>Provide an Excel table that lists (see notes) each non-sustained outage that occurred from January 1, 2023 through December 31, 2023 on any of the circuits identified in your response to Question 5 of data request CaPA-Advocates-PGE-2023WMP-04. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Was EPSS enabled on this circuit at the time of the outage? e) If "No," What No Light? f) Outage End Day & Time g) CSED (Court of Customers Experiencing Sustained Outages) h) Customer Minutes i) Cause j) Distribution Type (Subtype)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information. Please note, column K indicates if the outage was sustained or non-sustained.</p>	Amanda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
678	CaPA	Sat WMP-00	CaPA_Sat WMP-00	8	CaPA_Sat WMP-00_08	<p>Provide an Excel table that lists (see notes) each sustained outage that occurred from January 1, 2021 through December 31, 2023 on the following circuits: SCE REFUGIO 1101, SCE VEGAS 1101, SCE TEJON TR 1101, SCE TENDONWR 1101, SCE METABLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, YARONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1002, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZONAS 0401, ORINDA 0401, SPENCE 1101. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Was EPSS enabled on this circuit at the time of the outage? e) If "No," What No Light? f) Outage End Day & Time g) CSED (Court of Customers Experiencing Sustained Outages) h) Customer Minutes i) Cause j) Distribution Type (Subtype)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information. Column K indicates if the outage was sustained or non-sustained.</p> <p>Please note, as the following circuits did not have any outages, they were not included in the attachment. SCE VEGAS 1101, SCE TEJON TR 1101, SCE METABLAND 1101, PUEBLO 2104. As of July 2, 2024, these circuits have not been inside EPSS update.</p>	Amanda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	1	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
679	CaPA	Sat WMP-00	CaPA_Sat WMP-00	9	CaPA_Sat WMP-00_09	<p>Provide an Excel table that lists (see notes) each non-sustained outage that occurred from January 1, 2021 through December 31, 2023 on the following circuits: SCE REFUGIO 1101, SCE VEGAS 1101, SCE TEJON TR 1101, SCE TENDONWR 1101, SCE METABLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, YARONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1002, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZONAS 0401, ORINDA 0401, SPENCE 1101. For each outage, the Excel table should include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Was EPSS enabled on this circuit at the time of the outage? e) If "No," What No Light? f) Outage End Day & Time g) CSED (Court of Customers Experiencing Sustained Outages) h) Customer Minutes i) Cause j) Distribution Type (Subtype)</p>	<p>Please see "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information. Please note, column K indicates if the outage was sustained or non-sustained.</p>	Amanda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
680	CaPA	Sat WMP-00	CaPA_Sat WMP-00	10	CaPA_Sat WMP-00_10	<p>Provide an Excel spreadsheet of the following distribution circuits (see notes): SCE REFUGIO 1101, SCE VEGAS 1101, SCE TEJON TR 1101, SCE TENDONWR 1101, SCE METABLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, YARONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1002, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZONAS 0401, ORINDA 0401, SPENCE 1101. Include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Distribution - Leo Padilla District e) Date PG&E first achieved EPSS settings on any part of the circuit f) Total Customers g) Number of CPDs contained on the circuit h) Circuit SAIDI for 2017 i) Circuit SAIDI for 2018 j) Circuit SAIDI for 2019 k) Circuit SAIDI for 2020 l) Circuit SAIDI for 2021 m) Circuit SAIDI for 2022 n) Circuit SAIDI for 2023 o) Number of CPDs p) Date of PG&E 2023-2025 WMP RR, Table PG&E-8.1.2-3 as presented as the following (Inferred to Match) On April 5, 2024, in response to data request CaPA-Advocates-PGE-2023WMP-03, question 11 (CaPA-Advocates_026-0211), PG&E provided the following version of Table PG&E-8.1.2-3 (inferred to match as the April 5 table): MA&E State the below table why PG&E matched each of the following changes to Table PG&E-8.1.2-3 in the three months prior to April 5, 2024 to July 5, 2024. a) In 2023, the total number of miles in the "Fire Related" category is 109 miles in the April 5 table, but 111 miles in the July 5 table. b) In 2024, the total number of miles in the "Fire Related" category is 49 miles in the April 5 table, but 55 miles in the July 5 table. c) In 2024, the total number of miles in the "Top 20% Risk-Rated Circuit Segments" category is 204 miles in the April 5 table, but 180 miles in the July 5 table. d) In 2024, the total number of miles in the "Fire Related" category is 49 miles in the April 5 table, but 55 miles in the July 5 table. e) In 2024, the total number of miles in the "PSPS" category is 33 miles in the April 5 table, but 25 miles in the July 5 table. f) In 2024, the total number of miles in the "Other UG Program" category is 2 miles in the April 5 table, but 0 miles in the July 5 table. g) In the two-year period from 2020 to 2020, the total number of miles in the "Top 20% Risk-Rated Circuit Segments" category is 795 miles in the April 5 table, but 711 miles in the July 5 table. h) In the two-year period from 2020 to 2020, the total number of miles in the "Fire Related" category is 44 miles in the April 5 table, but 41 miles in the July 5 table. i) In the two-year period from 2020 to 2020, the total number of miles in the "PSPS" category is 2 miles in the April 5 table, but 7 miles in the July 5 table.</p>	<p>Please see "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information.</p> <p>In addition to the circuits included in the attachment, please see the table below for Circuit ID's for the Circuits which did not have outages and were not provided in the attachment.</p> <p>Circuit Name Circuit ID SCE Vesper 1101 1888701 SCE Tejon TR 1101 254191101 SCE Metabland 1101 25811101 Pueblo 2104 04202104</p>	Amanda Asadi	6/24/2024	7/9/2024	7/9/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	0	NA	11.4	Appendix D - Areas for Continued Improvement	11.4 ACI PG&E-23-26 Evaluation and Reporting of Safety Impacts Relating to EPSS
681	CaPA	Sat WMP-01	CaPA_Sat WMP-01	1	CaPA_Sat WMP-01_01	<p>Provide an Excel spreadsheet of the following distribution circuits (see notes): SCE REFUGIO 1101, SCE VEGAS 1101, SCE TEJON TR 1101, SCE TENDONWR 1101, SCE METABLAND 1101, VALLEY SPRINGS 1101, LAKEWOOD 1103, YARONA 1102, NAPA 1110, PUEBLO 2104, BIG TREES 1002, LOS OSITOS 2101, LAS POSTAS 2103, LAS ARIZONAS 0401, ORINDA 0401, SPENCE 1101. Include the following information in separate columns:</p> <p>a) Outage ID b) Circuit Name c) Circuit ID d) Distribution - Leo Padilla District e) Date PG&E first achieved EPSS settings on any part of the circuit f) Total Customers g) Number of CPDs contained on the circuit h) Circuit SAIDI for 2017 i) Circuit SAIDI for 2018 j) Circuit SAIDI for 2019 k) Circuit SAIDI for 2020 l) Circuit SAIDI for 2021 m) Circuit SAIDI for 2022 n) Circuit SAIDI for 2023 o) Number of CPDs p) Date of PG&E 2023-2025 WMP RR, Table PG&E-8.1.2-3 as presented as the following (Inferred to Match) On April 5, 2024, in response to data request CaPA-Advocates-PGE-2023WMP-03, question 11 (CaPA-Advocates_026-0211), PG&E provided the following version of Table PG&E-8.1.2-3 (inferred to match as the April 5 table): MA&E State the below table why PG&E matched each of the following changes to Table PG&E-8.1.2-3 in the three months prior to April 5, 2024 to July 5, 2024. a) In 2023, the total number of miles in the "Fire Related" category is 109 miles in the April 5 table, but 111 miles in the July 5 table. b) In 2024, the total number of miles in the "Fire Related" category is 49 miles in the April 5 table, but 55 miles in the July 5 table. c) In 2024, the total number of miles in the "Top 20% Risk-Rated Circuit Segments" category is 204 miles in the April 5 table, but 180 miles in the July 5 table. d) In 2024, the total number of miles in the "Fire Related" category is 49 miles in the April 5 table, but 55 miles in the July 5 table. e) In 2024, the total number of miles in the "PSPS" category is 33 miles in the April 5 table, but 25 miles in the July 5 table. f) In 2024, the total number of miles in the "Other UG Program" category is 2 miles in the April 5 table, but 0 miles in the July 5 table. g) In the two-year period from 2020 to 2020, the total number of miles in the "Top 20% Risk-Rated Circuit Segments" category is 795 miles in the April 5 table, but 711 miles in the July 5 table. h) In the two-year period from 2020 to 2020, the total number of miles in the "Fire Related" category is 44 miles in the April 5 table, but 41 miles in the July 5 table. i) In the two-year period from 2020 to 2020, the total number of miles in the "PSPS" category is 2 miles in the April 5 table, but 7 miles in the July 5 table.</p>	<p>As described in our WMP Section 8.1.2.3, PG&E's underground workflow involves several Project activities that change because of project dependencies, such as permitting and equipment delays. Further, the workflow involved to account for the 2023 GRC Disasters. Below are detailed changes specifically made between when the two worksheets were submitted between April 5 and July 5.</p> <p>a) The July 5 table incorporates miles from Geospatial Community Reliability projects. These projects were inadvertently missing from all versions of the summary table prior to the July 5 version.</p> <p>b) This change was driven by seven project shifting schedules from 2024 to 2025 and one from 2024 to 2026.</p> <p>c) As with subpart (b), the July 5 table incorporates miles from Dramatic Community Reliability projects. These projects were inadvertently missing from all versions of the summary table prior to the July 5 version.</p> <p>d) This change was driven by two projects shifting schedules from 2024 to 2025.</p> <p>e) This change was driven by one project shifting schedule from 2024 to 2025.</p> <p>f) The change driven in the reduction of miles for 2025-2026 is the need to align the schedule to the 2023-2025 GRC mileage targets. These changes include removing existing projects and adding new projects to the GRC risk reduction targets.</p> <p>g) This change was driven by Rate Related project schedule changes between 2024 and 2025 (one project moved from 2024 to 2025, another from 2025 to 2024).</p> <p>h) This change was driven by a net impact of increased miles in 2024 and reduced miles in 2025-2026.</p> <p>i) This change was driven by the same project described in subpart (b), plus one project being removed from the worksheet.</p> <p>j) One four-mile project from the April 5 table has been removed from the July 5 table, but 12 miles from eight projects were added. Of the 12 miles added, 11 miles are in the Top 20% Risk category and will be moved accordingly once risk reduction calculations have been completed in our system of record for the associated projects.</p> <p>k) This change was driven by the same project described in subpart (a), as well as a single new project that was missing in the April 5 table at the time of the July 5 report revision. This will be updated in our system of record and will be included in future versions of the table.</p>	Holly Warman	7/9/2024	7/13/2024	7/13/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	0	NA	8	Section 8.1.2 - Grid Design and System Hardening	8.1.2.1.2 Other grid topology improvements to mitigate or reduce PSPS events - Distribution
682	CPUC - SPD (Safety Policy Division)	018	CPUC - SPD (Safety Policy Division)_018	1	CPUC - SPD (Safety Policy Division)_018_01	<p>Submit the 2024 Q2 GDR Confidential and Non-Confidential versions (including both spatial and non-spatial) via Networks to the SPD's Website and Safety Performance Section.</p>	<p>Please find the requested 2024 Q2 GDR Spatial and Non-Spatial files attached to this response:</p> <ul style="list-style-type: none"> CPUC - Cover letter Q2 2024 Submission.pdf PG&E_2024_Q2_Table1-15_RR.xlsx PG&E_2024_Q2_SpatialConfidentialReport.xlsx PG&E_2024_Q2_RiskEventPhis_Vignettes_CONF.jpg PG&E_2024_Q2_InvasivePhisLog_AssessInspections_CONF_1.jpg PG&E_2024_Q2_InvasivePhisLog_AssessInspections_CONF_2.jpg PG&E_2024_Q2_InvasivePhisLog_AssessInspections_CONF_3.jpg PG&E_2024_Q2_InvasivePhisLog_AssessInspections_CONF_4.jpg <p>Please see attachment "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information.</p> <p>Column K in Table 13 (located in the attachment) in the GDR provides the signal priority using PG&E's system priority with Column C (response time) in the attached dataset provides the correct priority using PG&E's internal priority.</p> <p>Conditions that pose an ignition risk (responsive to subject oil within HFTD or PG&E High Risk Areas (HRA)) are evaluated using a combination of hydrodynamic codes and individual review during gatekeeping by the Geospatial Information Team (GIT). The HFTD and HRA gatekeeping codes can contain both ignition and non-ignition risk conditions and non-HFTD and HRA notifications are typically reviewed by the system priority in only 10 minutes for notifications within HFTD or HRA.</p> <p>PG&E has not requested from the Commission or been provided formal exceptions for maintenance high under General Order (GD) 05, Rule 18, Chapter PG&E has repeatedly identified maintenance issues that have been identified under maintenance commencing including those identified under GD 05, Rule 18, which have been noted in Column C (response to subject risk).</p> <p>Notifications are not associated with circuit segments. The Functional Location has been provided for the Circuit Segment Identification Number, located in Column V of the attachment.</p>	Henry Swain	8/20/2024	8/6/2024	8/20/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	9	NA	QDR	NA	NA
683	CaPA	Sat WMP-02	CaPA_Sat WMP-02	1	CaPA_Sat WMP-02_01	<p>The following questions relate to your WMP Quarterly Data Report for Q2 of 2024, Table 13, reviewed on August 2, 2024, which reports sustained customer notification for each geographic circuit that was open at the end of the quarter. The follow-up data request seeks information for ALL open work orders in your territory, not only open work orders in High Fire Threat Districts.</p> <p>Please add the following information to each row of Table 13 in separate columns:</p> <p>a) Name of the associated circuit b) ID number of the associated circuit c) Geographic latitude in decimal degrees, truncated to seven decimal places d) Geographic longitude in decimal degrees, truncated to seven decimal places e) Priority of the original notification, using PG&E's internal priority level codes f) Circumstances code or other internal description of defect g) Process ignition risk (Y/N) h) General Order (G) Exception Granted (Y/N) i) Circuit Segment Identification Number j) Date Due as of July 31, 2024 (Y/N)</p>	<p>Please see attachment "WMP-Discovery2023-2025_DR_CaPAAdvocates_056-0008A801.xlsx" for the requested information.</p> <p>Conditions that pose an ignition risk (responsive to subject oil within HFTD or PG&E High Risk Areas (HRA)) are evaluated using a combination of hydrodynamic codes and individual review during gatekeeping by the Geospatial Information Team (GIT). The HFTD and HRA gatekeeping codes can contain both ignition and non-ignition risk conditions and non-HFTD and HRA notifications are typically reviewed by the system priority in only 10 minutes for notifications within HFTD or HRA.</p> <p>PG&E has not requested from the Commission or been provided formal exceptions for maintenance high under General Order (GD) 05, Rule 18, Chapter PG&E has repeatedly identified maintenance issues that have been identified under maintenance commencing including those identified under GD 05, Rule 18, which have been noted in Column C (response to subject risk).</p> <p>Notifications are not associated with circuit segments. The Functional Location has been provided for the Circuit Segment Identification Number, located in Column V of the attachment.</p>	Berjentin Katsberg	8/19/2024	9/6/2024	9/6/2024	https://www.pge.com/Assets/Files/Outage-Reports/2023-2025-DR_CaPAAdvocates_056-0008A801.xlsx	1	NA	QDR	NA	NA

Pre-Discovery 33	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	8	CaIPA_Sat WMP-06_08	<p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	1	NA	8.1.2.a	System Hardening	NA
Pre-Discovery 34	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	9	CaIPA_Sat WMP-06_09	<p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	0	NA	8.1.2.a	System Hardening	NA
Pre-Discovery 35	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	10	CaIPA_Sat WMP-06_10	<p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p> <p>Please see attachment "WMP-Discovery2023_DR_CaInfoAccess_006-000840H1CONF.xlsx"</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	1	NA	4.3	Proposed Expenditures	System Hardening
Pre-Discovery 36	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	11	CaIPA_Sat WMP-06_11	<p>Please provide a spreadsheet listing (see rows) each undergrounding project completed during the period of January 1, 2022, through December 31, 2022. For each project, please provide the following information (see columns):</p> <p>a) Project ID number or other identifier</p> <p>b) Circuit ID</p> <p>c) ID of each circuit segment that was entirely undergrounded in the project</p> <p>d) ID of each circuit segment that was partially undergrounded in the project</p> <p>e) County or counties where undergrounding took place</p> <p>f) Project start date</p> <p>g) Project completion date</p> <p>h) Total length of trenching required</p> <p>i) Total length of electric cabling of the project (i.e., costs attributed to your electric facilities), including costs for planning, design, permitting, and construction</p> <p>j) Whether this was a Risk 2 project (yes/no)</p> <p>k) Whether this was a Risk 3 project (yes/no)</p> <p>l) Whether this was a Risk 4 project (yes/no)</p> <p>m) Whether this was a Risk 5 project (yes/no)</p> <p>n) Whether this was a Risk 6 project (yes/no)</p> <p>o) Whether this was a Risk 7 project (yes/no)</p> <p>p) Whether you shared trenches for this project with gas facilities (yes/no)</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
Pre-Discovery 37	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	12	CaIPA_Sat WMP-06_12	<p>Please provide a spreadsheet file with a spreadsheet listing each asset where you had an existing corrective notification at the time of the system. Please include a spreadsheet listing each such system (see rows) with the following information in separate columns:</p> <p>a) System ID</p> <p>b) Date of system</p> <p>c) Type of asset associated with the system</p> <p>d) Asset location</p> <p>e) Number of systems associated with system, if any</p> <p>f) Asset ID of asset associated with system</p> <p>g) Circuit ID number of circuit associated with system</p> <p>h) Notification number(s) for the existing maintenance tag on the asset in question.</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	1	NA	8.1.2.2	Grid Design and System Hardening	Undergrounding of Electric Lines and/or Equipment - Distribution
Pre-Discovery 38	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	13	CaIPA_Sat WMP-06_13	<p>Identify any systems in 2022 associated with assets where you had an existing corrective notification at the time of the system. Please include a spreadsheet listing each such system (see rows) with the following information in separate columns:</p> <p>a) System ID</p> <p>b) Date of system</p> <p>c) Type of asset associated with the system</p> <p>d) Asset location</p> <p>e) Number of systems associated with system, if any</p> <p>f) Asset ID of asset associated with system</p> <p>g) Circuit ID number of circuit associated with system</p> <p>h) Notification number(s) for the existing maintenance tag on the asset in question.</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	0	NA	2022 WMP Section 7.3.4	Asset Management and Inspections	NA
Pre-Discovery 39	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	14	CaIPA_Sat WMP-06_14	<p>Has PG&E's Asset Failure Analysis Team causally corrected any systems that occurred in 2022 to assets with existing asset or vegetation corrective notification at the time of the system?</p> <p>If the answer is just "No," please provide the following information on each such system:</p> <p>1) Line number ID (including the previous identifier)</p> <p>2) Date of system</p> <p>3) Circuit ID identified by the Asset Failure Analysis Team</p> <p>4) Type of corrective notification that was issued to the system (i.e., the priority level and whether it related to asset or vegetation management)</p> <p>5) Copies of associated reports or investigations performed by the Asset Failure Analysis Team.</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	0	NA	2022 WMP 7.3.7	Data Governance	Asset Failure Analysis
Pre-Discovery 40	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	15	CaIPA_Sat WMP-06_15	<p>Has PG&E's Response to Data Request California-PGE-2022WMP-17, Question 13, March 23, 2022, PG&E's inspection strategy in 2022 to complete detailed inspections on all assets in HTD Tier 2 and Zone 1, and approximately one-third of assets in HTD Tier 2.</p> <p>Please describe any changes to the above strategy for PG&E's detailed distribution inspections in 2023.</p> <p>Please describe any changes to the above strategy for PG&E's detailed distribution inspections in 2024.</p> <p>Please describe any changes to the above strategy for PG&E's detailed distribution inspections in 2024.</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	0	NA	2022 WMP 7.3.1 and 7.3.4.14	Asset Management and Inspections	NA
Pre-Discovery 41	CAIPA	Set WMP-06	CaIPA_Sat WMP-06	16	CaIPA_Sat WMP-06_16	<p>Regarding your PPSPs circuit modeling capabilities:</p> <p>a) Please describe your present circuit modeling capabilities with regard to PPSPs decision making ("PPSP circuit modeling capabilities") including what level of granularity they are able to determine how circuit hardening affects or other changes to a line segment will affect PPSPs breakdowns.</p> <p>b) Please describe any improvements to the present PPSPs circuit modeling capabilities that you expect to implement in 2023.</p> <p>c) Please describe any improvements to the present PPSPs circuit modeling capabilities that you expect to implement in 2024.</p> <p>d) Please describe the expected state of your PPSPs circuit modeling capabilities at the conclusion of the 2023-2025 WMP cycle.</p>	Holly Wetman	2/10/2023	3/29/2023	3/29/2023	0	NA	PPSP	NA	NA

Pre-Discovery 54	CaPA	Sat WMP-38	CaPA_Sat WMP-38	4	CaPA_Sat WMP-38_04	<p>Provides an Excel table of all transmission circuits existing as of January 1, 2023 (as noted) that were removed or decommissioned in 2023, either partially or entirely. This includes permanent removal, removal of overhead lines that were moved underground, or overhead lines that were decommissioned but not physically removed. Include the following information in separate columns:</p> <ul style="list-style-type: none"> a) Circuit name b) Circuit ID number c) Circuit miles removed or decommissioned in Non-HFTD d) Circuit miles removed or decommissioned in Other HFTD e) Circuit miles removed or decommissioned in HFTD Tier 2 f) Circuit miles removed or decommissioned in HFTD Tier 3 g) Reason(s) for removal or decommission 	<p>Please see attachment "WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-0004A01.xlsx" for the requested information.</p> <p>ITAC#124821 WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-0004A01.xlsx</p>	Holly Wetman	3/20/2023	4/19/2024	4/15/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3 Asset Inspections - Transmission
Pre-Discovery 55	MGRA	008	MGRA_Data Request No. 8	1	MGRA_Data Request No. 8_01	<p>GIS Data: Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for Q1-Q4 2023. Please remove any confidential attributes that may have been added to the requested reports. Please provide for Asset Point data for Cameras, Fuse, Support Structures, and Weather Station.</p>	<p>GENERAL STATEMENT REGARDING RESPONSES TO QUESTIONS 1 THROUGH 6 in response to questions 1 through 6 of this set of data requests, PG&E is providing non-confidential data from the 2023 Office of Energy Infrastructure and Safety Energy Safety Compliance Information System (CIS). Data includes records as requested in the reporting early. Due to the high volume of records in our submission (approximately 1.3 million records), certain confidential information (including confidential data as neither feasible nor practical. The feature classes and related tables included in the submission are not used in our internal systems. Additionally, interrelated confidential feature class data and the geospatial representation of the data enables compliance in displaying the confidentiality of related records and introduces additional risk for error. PG&E is applying confidentiality designations at the feature class and field level, consistent on the feature class. To help mitigate the risk of misreading individual records, Batch analysis was used to identify nonconfidential records. PG&E respectfully requests that MGRA use this data for internal purposes only and restrict access to a need-to-know basis.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 55	MGRA	Data Request No. 8	MGRA_Data Request No. 8	1(a)	MGRA_Data Request No. 8_01(a)	<p>GIS Data: Please provide the GIS data set provided to the Office of Energy Infrastructure Safety for Q1-Q4 2023. Please remove any confidential attributes that may have been added to the requested reports. Please provide for Asset Point data for Cameras, Fuse, Support Structures, and Weather Station.</p>	<p>In response to this request, PG&E is providing Camera and Weather Station data, as delivered in the 2023 Energy Safety GIS Data Standard Submission. PG&E is also providing non-confidential data from the Support Structures feature class. As requested, WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx PG&E is not providing data for the Fuse feature class as this data is confidential energy infrastructure information (CEI). Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 56	MGRA	008	MGRA_Data Request No. 8	2	MGRA_Data Request No. 8_02	<p>Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.</p>	<p>In response to this request, PG&E is providing non-confidential data for the Primary and Secondary Distribution Line Feature Class. PG&E is providing non-confidential Energy Safety GIS Data Standard Submission. As requested, PG&E is not providing the Transmission Line feature class for the CEI. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 56	MGRA	Data Request No. 8	MGRA_Data Request No. 8	2(a)	MGRA_Data Request No. 8_02(a)	<p>Provide Asset Line data for Transmission Line (as permitted as non-confidential), Primary Distribution Line, and Secondary Distribution Line.</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/23/2024	4/23/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 57	MGRA	008	MGRA_Data Request No. 8	3	MGRA_Data Request No. 8_03	<p>Provide PSPS Event data, including Event Log, Event Line, Event Polygon data. Provide customer meter data. Provide PSPS Event Asset Damage data including photos.</p>	<p>In response to this request, PG&E is providing non-confidential data for the PSPS (Event data for the Quarter Q1, Q2, and Q3 2023 submission as no PSPS data was last submitted for Q4 2023. PG&E is providing non-confidential data for the 2023 Q1-Q3 submission. Our non-confidential data is included in this response. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 57	MGRA	Data Request No. 8	MGRA_Data Request No. 8	3(a)	MGRA_Data Request No. 8_03(a)	<p>Provide PSPS Event data, including Event Log, Event Line, Event Polygon data. Provide customer meter data. Provide PSPS Event Asset Damage data including photos.</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 58	MGRA	008	MGRA_Data Request No. 8	4	MGRA_Data Request No. 8_04	<p>Provide Risk Event Point data, including Wire Down, Ignition, Transmission Tower Collapse, and other non-confidential, Distribution Unplanned Outage, Distribution Vegetation Caused Unplanned Outage, Risk Event Asset Log.</p>	<p>In response to this request, PG&E is providing non-confidential data for the Wire Down, Ignition, Transmission Tower Collapse, and other non-confidential, Distribution Unplanned Outage, Distribution Vegetation Caused Unplanned Outage, Risk Event Asset Log. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 58	MGRA	Data Request No. 8	MGRA_Data Request No. 8	4(a)	MGRA_Data Request No. 8_04(a)	<p>Please provide for Asset Point data for Cameras, Fuse, Support Structures, and Weather Station.</p>	<p>In response to this request, PG&E is providing non-confidential data for the Grid Reliability Point Data. PG&E is providing non-confidential data for the Grid Reliability Point Data. PG&E is providing non-confidential data for the Grid Reliability Point Data. PG&E is providing non-confidential data for the Grid Reliability Point Data. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 59	MGRA	008	MGRA_Data Request No. 8	5	MGRA_Data Request No. 8_05	<p>Under Initiative, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this item.</p>	<p>In response to this request, PG&E is providing non-confidential data for the Grid Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this item. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 59	MGRA	Data Request No. 8	MGRA_Data Request No. 8	5(a)	MGRA_Data Request No. 8_05(a)	<p>Under Initiative, please provide Grid Hardening data, including Hardening Log, Hardening Point, and Hardening Line data. Inspection data is not requested in this item.</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 60	MGRA	008	MGRA_Data Request No. 8	6	MGRA_Data Request No. 8_06	<p>Under Other Requested Data, please provide Red Flag Warning Day polygon data.</p>	<p>In response to this request, PG&E is providing non-confidential data for the Red Flag Warning Day polygon data for Q1-Q4 2023. PG&E is unable to provide the Red Flag Warning Day polygon data for Q1-Q3 2023 submission as there were no Red Flag Warning days to report. Please see attachment "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the data requested.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 60	MGRA	Data Request No. 8	MGRA_Data Request No. 8	6(a)	MGRA_Data Request No. 8_06(a)	<p>Under Other Requested Data, please provide Red Flag Warning Day polygon data.</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 61	MGRA	008	MGRA_Data Request No. 8	7	MGRA_Data Request No. 8_07	<p>Please provide a layer indicating calculated circuit-level risk using the methodology presented in the WMP. If independent probability and consequence levels exist, please provide these independently as well.</p>	<p>The requested circuit segment-level risk model results that correspond with this request include Q1-Q4 data and the WMP (WMP) results that were provided previously in WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx and submitted to PG&E on 2/20/2024. The risk model results for the WMP (WMP) are included in this response. If the data is not available for the WMP (WMP) results, the data is not included. At this time, the data is not available for the WMP (WMP) results. The WMP (WMP) results are included in this response. The WMP (WMP) results are included in this response.</p>	Joseph Michael	3/21/2023	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 61	MGRA	Data Request No. 8	MGRA_Data Request No. 8	7(a)	MGRA_Data Request No. 8_07(a)	<p>Please provide a layer indicating calculated circuit-level risk using the methodology presented in the WMP. If independent probability and consequence levels exist, please provide these independently as well.</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024.</p>	Joseph Michael	3/21/2023	4/22/2024	4/22/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	Appendix D	Appendix D - Areas for Continued Improvement	Appendix D ACI PG&E-22--23 Progress on Filing Asset Inventory Data Gaps
Pre-Discovery 62	CaPA	Sat WMP-39	CaPA_Sat WMP-39	1	CaPA_Sat WMP-39_01	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that have been completed since January 1, 2023 and that examined any programs, initiatives, or strategies described in your 2023-2025 Base WMP.</p>	<p>PG&E has recently completed Quality Assurance (QA) Quality Control (QC) with our individualized functional areas. In 2023, PG&E formalized its independent quality management system in support of the System Inspections and Vegetation Management functional areas. As a result, the response provided for 2023 aligns with data provided to validate 2023 commitments. Please see the eight attachments identified below for data/reports of QA/QC performed for the following programs: * Vegetation Management Routine Distribution * Vegetation Management Routine Transmission * System Inspections Distribution and * System Inspections Transmission. ATTACHMENTS: WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011467.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011468.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011469.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011470.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011471.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011472.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011473.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011474.xlsx</p>	Holly Wetman	3/22/2024	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	8	NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
Pre-Discovery 63	CaPA	Sat WMP-39	CaPA_Sat WMP-39	2	CaPA_Sat WMP-39_02	<p>Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that have been completed since January 1, 2023 and that examined any programs, initiatives, or strategies described in your 2023-2025 Base WMP. External entities include, but are not limited to, consultants, contractors, auditors, court-appointed monitors, and independent Evaluators.</p>	<p>PG&E has recently completed Quality Assurance (QA) Quality Control (QC) with our individualized functional areas. In 2023, PG&E formalized its independent quality management system in support of the System Inspections and Vegetation Management functional areas. As a result, the response provided for 2023 aligns with data provided to validate 2023 commitments. Please see the eight attachments identified below for data/reports of QA/QC performed for the following programs: * Vegetation Management Routine Distribution * Vegetation Management Routine Transmission * System Inspections Distribution and * System Inspections Transmission. ATTACHMENTS: WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011467.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011468.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011469.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011470.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011471.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011472.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011473.xlsx WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-00011474.xlsx</p>	Holly Wetman	3/22/2024	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	0	NA	8	Section 8.1.6 - Quality Assurance and Quality Control	8.1.6.1 Quality Assurance (QA)
Pre-Discovery 64	CaPA	Sat WMP-39	CaPA_Sat WMP-39	3	CaPA_Sat WMP-39_03	<p>Provides an Excel table of all defects in the year 2023 found by Energy Safety's Compliance Branch (as noted) that include the following information in separate columns: a) Associated circuit name b) Defect type c) Description of defect d) WMP relative from your 2023-2025 WMP/associated with defect e) Date that the defect was identified f) If the defect has not yet been corrected as of the issuance date of this data request, a brief explanation of the level of corresponding corrective work g) Geographic latitude of defect in decimal degrees, truncated to seven decimal places h) Geographic longitude of defect in decimal degrees, truncated to seven decimal places</p>	<p>Please see "WMP-Discovery2023-2025_DR_MGRA_DSD-00011467.xlsx" for the information requested during PG&E's discussion with MGRA on Friday, April 12, 2024. Please note the attachment to this response contains CONFIDENTIAL information provided relative to the accompanying data and is not to be distributed outside of the requested information. Please see attachment "WMP-Discovery2023-2025_DR_CaPAAdvocates_DSD-0003A01CONF.xlsx" for the requested information.</p>	Holly Wetman	3/22/2024	4/20/2024	4/20/2024	https://www.era.gov/system/attachments/attachements/144444/attachment_data/file/144444	1	NA	11	Section 11 - Corrective Action Program	11.3 Corrective Action Program - Addressing Issues from Energy Safety's Compliance Assurance Division (e.g., audits and review of defect and violations)

Pre-Discovery 65	CaPA	Set WMP-30	CaPA_Sat WMP-30	4	CaPA_Sat WMP-30_04	<p>For each WMP initiative for which you forecast capital expenditures in 2025 to be at least two times actual capital expenditures in 2023, please provide:</p> <p>(A) The name of the initiative as it is identified in your 2025 WMP Update.</p> <p>(B) The WMP initiative number in Table 11 of your 2025 WMP Update.</p> <p>(C) The name of the initiative as it is identified in your 2023-2025 Base WMP.</p> <p>(D) The WMP initiative number in Table 11 of your 2023-2025 Base WMP.</p> <p>(E) An explanation for the projected increase.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/04/04 https://www.pge.com/Forms/Topic/03/04/04 https://www.pge.com/Forms/Topic/03/04/04	0	NA	4	Section 4 - Overview of WMP	4.3 Proposed Expenditures
Pre-Discovery 66	CaPA	Set WMP-30	CaPA_Sat WMP-30	5	CaPA_Sat WMP-30_05	<p>For each WMP initiative for which you forecast operating expenditures in 2025 to be at least two times actual operating expenditures in 2023, please provide:</p> <p>(A) The name of the initiative as it is identified in your 2025 WMP Update.</p> <p>(B) The WMP initiative number in Table 11 of your 2025 WMP Update.</p> <p>(C) The name of the initiative as it is identified in your 2023-2025 Base WMP.</p> <p>(D) The WMP initiative number in Table 11 of your 2023-2025 Base WMP.</p> <p>(E) An explanation for the projected increase.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/05/05 https://www.pge.com/Forms/Topic/03/05/05 https://www.pge.com/Forms/Topic/03/05/05	0	NA	4	Section 4 - Overview of WMP	4.3 Proposed Expenditures
Pre-Discovery 67	CaPA	Set WMP-30	CaPA_Sat WMP-30	6	CaPA_Sat WMP-30_06	<p>Please fill out the attached spreadsheet, CaPA/Advocate-PGE-2023WMP-03 Attachment 1, requesting information regarding your asset inspections in 2023.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/06/06 https://www.pge.com/Forms/Topic/03/06/06 https://www.pge.com/Forms/Topic/03/06/06	1	NA	8	Section 8.1.3 - Asset Inspection	8.1.3 Asset Inspectors
Pre-Discovery 68	CaPA	Set WMP-30	CaPA_Sat WMP-30	7	CaPA_Sat WMP-30_07	<p>Please provide a list of any incidents in 2023 where the actions of a WMP contractor posed a safety risk to workers and/or the public. "Safety risk" here is defined as any occurrence on a worksite where the contractor's actions created a safety hazard for other workers or the general public. For each instance, please provide:</p> <p>(A) The date you were informed of the safety issue.</p> <p>(B) The date the original work that created the safety issue was performed.</p> <p>(C) Whether the safety issue concerned a transmission or distribution circuit.</p> <p>(D) The specific management measures instituted in the original work.</p> <p>(E) A brief description of the safety issue involved.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/07/07 https://www.pge.com/Forms/Topic/03/07/07 https://www.pge.com/Forms/Topic/03/07/07	1	NA	8	Section 8.2 - Vegetation Management and Inspections	8.2 Vegetation Management and Inspections
Pre-Discovery 69	CaPA	Set WMP-30	CaPA_Sat WMP-30	8	CaPA_Sat WMP-30_08	<p>In response to Case Prepaid Contributions-PGE-2023WMP-08, Question 6, March 29, 2023, PG&E provided the 2023 system hardening workplan for the categories referred to in parts (a)-(d) below. Please provide an updated version of this workplan with additional columns to capture the actual system hardening work performed in each circuit segment in 2023 for each of these categories. Please add rows as needed to cover all circuit segments where PG&E performed system hardening work in 2023 (even if those circuit segments were not included in the original workplan):</p> <p>(a) Isolation of overhead conductor</p> <p>(b) Installation of underground conductor</p> <p>(c) Removal of overhead conductor</p> <p>(d) Removal of overhead conductor associated with remote grid work.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/08/08 https://www.pge.com/Forms/Topic/03/08/08 https://www.pge.com/Forms/Topic/03/08/08	1	NA	8.1,2.5	System Hardening	NA
Pre-Discovery 70	CaPA	Set WMP-30	CaPA_Sat WMP-30	9	CaPA_Sat WMP-30_09	<p>Provide your workplan that describes where and when you will perform system hardening on distribution circuits in 2025. For projects that you expect to partially complete in 2025 or later, provide that started before 2025 and are expected to continue in 2025, or projects that are expected to be completed after 2025. Please include the project and describe the work that has been and will actually be performed in calendar year 2025.</p> <p>For each project, include the following information in separate columns, as a minimum:</p> <p>(a) Circuit number</p> <p>(b) MAT Code</p> <p>(c) Program</p> <p>(d) Circuit ID number</p> <p>(e) Circuit segment name or ID number (if the project affects more than one circuit segment, please identify each one)</p> <p>(f) Relevant wildfire risk scenario from the wildfire risk model that you are using to estimate distribution risk to your 2025 WMP Update filing</p> <p>(g) The expected start and end dates of the project</p> <p>(h) The expected completion date of the project</p> <p>(i) Length (in circuit miles) of covered conductors to be installed in 2025</p> <p>(j) Length (in circuit miles) of underground conductor to be installed in 2025 and replaced by underground conductor (note that this may differ slightly from the previous section due to deferring overhead and underground work)</p> <p>(k) Length (in circuit miles) of overhead conductor to be permanently removed in 2025 and not replaced with covered conductor (or undergrounded)</p> <p>(l) Length (in circuit miles) of any other type of system hardening project to be installed in 2025 (if this is greater than zero, please describe the type of system hardening project)</p> <p>(m) Location-specific undergrounding effectiveness</p> <p>(n) Location-specific effectiveness of alternate mitigation.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/09/09 https://www.pge.com/Forms/Topic/03/09/09 https://www.pge.com/Forms/Topic/03/09/09	0	NA	8.1,2.5	System Hardening	NA
Pre-Discovery 71	CaPA	Set WMP-30	CaPA_Sat WMP-30	10	CaPA_Sat WMP-30_10	<p>For each of your 2023-2025 WMP system hardening initiatives, please provide disaggregated information related to expenditures and circuit miles installed in the attached table, CaPA/Advocate-PGE-2023WMP-03 Attachment 2. Add columns as needed.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/10/10 https://www.pge.com/Forms/Topic/03/10/10 https://www.pge.com/Forms/Topic/03/10/10	0	NA	8.1,2.5	System Hardening	NA
Pre-Discovery 72	CaPA	Set WMP-30	CaPA_Sat WMP-30	11	CaPA_Sat WMP-30_11	<p>On page 402 of PG&E's 2023-2025 WMP (in January 8, 2024), PG&E provided Table PG&E 8.1.2.3.3, sheet below. Please provide an updated version of this table (preferably in Excel format) with actuals from 2023 and updated estimates for 2024, 2025, and 2026.</p>	Holly Wetman	3/22/2024	4/5/2024	4/5/2024	https://www.pge.com/Forms/Topic/03/11/11 https://www.pge.com/Forms/Topic/03/11/11 https://www.pge.com/Forms/Topic/03/11/11	1	NA	8.1,2.5	System Hardening	NA

