

Count	Party Name	Data Set	Data Request	Question No.	Question ID	Question Text	Requestor	Date Rec'd	Final Due Date	Date Sent	Number of Atchs	NDA Required	WMP Section	Category	Subcategory
1	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	1	CalAdvocate s-PGE-2022WMP-12_1	In response to Data Request CalAdvocates-PGE-2022WMP-03, Question 5, PG&E stated with regard to detailed ground inspections of transmission towers, The average number of inspections completed per day in 2021 was 10.9 for contractors, and 7.6 for internal PG&E inspectors.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.2	Asset Management and Inspections	Detailed Inspections of Transmission electric lines and equipment
2	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	2	CalAdvocate s-PGE-2022WMP-12_2	In response to Data Request CalAdvocates-PGE-2022WMP-03, Questions 9-11, PG&E responded that "PG&E's search of LC tags issued as a result of both desktop and field Quality Control reviews did not identify any Priority A or Priority B LC tags issued" for climbing, drone, or detailed ground inspections of transmission structures.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	1		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
3	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	3	CalAdvocate s-PGE-2022WMP-12_3	For desktop Quality Control reviews of transmission drone inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
4	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	4	CalAdvocate s-PGE-2022WMP-12_4	For desktop Quality Control reviews of transmission detailed ground inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
5	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	5	CalAdvocate s-PGE-2022WMP-12_5	For field Quality Control reviews of transmission climbing inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
6	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	6	CalAdvocate s-PGE-2022WMP-12_6	For field Quality Control reviews of transmission drone inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
7	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	7	CalAdvocate s-PGE-2022WMP-12_7	For field Quality Control reviews of transmission detailed ground inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
8	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	8	CalAdvocate s-PGE-2022WMP-12_8	In response to Data Request CalAdvocates-PGE-2022WMP-08, Q3/Question 4, PG&E stated that PG&E System Inspection Quality Control found through Desktop Reviews that 60% of inspections had no mistakes and 13% of inspections resulted in a "Failed Review". Through Field Reviews, Quality Control found that 45% of inspections had no mistakes and 13% of inspections resulted in a "Failed Review".	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
9	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	9	CalAdvocate s-PGE-2022WMP-12_9	For Desktop Quality Control reviews of detailed distribution inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
10	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	10	CalAdvocate s-PGE-2022WMP-12_10	For Field Quality Control reviews of detailed distribution inspections, please provide the same data as requested in Question 2.	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
11	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	11	CalAdvocate s-PGE-2022WMP-12_11	In response to Data Request CalAdvocates-PGE-2022WMP-04, Question 2, PG&E stated that "The requested information is provided in PG&E's 2022 WMP in Section 7.1.F. PG&E is providing attachment "WMP-Discovery2022_DR_CalAdvocates_004-002A4c01.zip" which has been prepared with the same information in the requested shapefile format." CalAdvocate s-PGE-2022WMP-12_11	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.1.F	Wildfire Mitigation Strategy	Wildfire Risk Data
12	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	12	CalAdvocate s-PGE-2022WMP-12_12	The file "WMP_section_71F.gdb" submitted with PG&E's 2022 WMP contains a layer titled "WMP_section_71F Distribution_Wildfire_Risk." This layer has the following attributes: OBJECTID mean_mavf_core_risk	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	1		7.1.F	Wildfire Mitigation Strategy	Wildfire Risk Data
13	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	13	CalAdvocate s-PGE-2022WMP-12_13	In response to Data Request CalAdvocates-PGE-2022WMP-04, Question 10, PG&E stated: "At this time, the program cannot forecast with accuracy the split of the 2022 budget forecast into Covered Conductor, Underground, and Line Removal."	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.3.17.1	Grid Design and System Hardening	Updates to grid topology to minimize risk of ignition in HFTDs, System Hardening, Distribution
14	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	14	CalAdvocate s-PGE-2022WMP-12_14	a) Please explain how PG&E developed the forecast total expenditure of \$819.1 million for 2022? In response to Data Request CalAdvocates-PGE-2022WMP-08, Question 7, PG&E stated: "We did not change the priority of the corrective notification during the period of February 19, 2020 to June 16, 2021 because none of the inspectors who reviewed this location during this time period recommended a priority change of the corrective notification." With	Holly Wehman Carolyn Chen Laysa Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.3.3.12.4	Grid Design and System Hardening	Other corrective action, Maintenance, Distribution
15	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	1	CalAdvocate s-PGE-2022WMP-13_1	PG&E's 2022 Q1 Quarterly Initiative Update states the following regarding 2021 WMP Initiative 7.3.3.17.4: Updates to grid topology to minimize risk of ignition in HFTDs, Rapid Earth Current Fault Limiter. The current REFCL pilot project at Calistoga experienced unsuccessful technology integration and implementation to date. We have encountered challenges with successful implementation of the REFCL technology and associated	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	1		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
16	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	2	CalAdvocate s-PGE-2022WMP-13_2	a) What is the status of PG&E's REFCL program as of the issuance date of this DR? b) Does PG&E plan to continue the REFCL program? c) If the answer to subpart (b) is "yes", please describe PG&E's current plans (with specific project timelines and milestones) for the REFCL program.	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
17	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	3	CalAdvocate s-PGE-2022WMP-13_3	PG&E's 2022 WMP states: While we have not set specific targets for this Initiative and will not provide ongoing reporting each quarter on it, we are still doing the work as part of our overall plan. We do not currently plan to install any additional REFCL systems at this time. PG&E plans to repair and rebuild the REFCL installation at Calistoga to complete the additional pilot evaluation. If the additional pilot is	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
18	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	4	CalAdvocate s-PGE-2022WMP-13_4	PG&E's 2022 WMP states: The Calistoga REFCL pilot project finished construction in 2020. In 2021, PG&E attempted to commission and test the REFCL technology in Calistoga. PG&E completed an elevated voltage stress test and one field ground fault test which demonstrated that REFCL technology can be effective at reducing fault currents to below fire ignition levels.	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
19	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	5	CalAdvocate s-PGE-2022WMP-13_5	After the initial positive tests, the Calistoga REFCL pilot demonstration was stalled due to the failure of the substation REFCL equipment. In addition, PG&E had difficulty obtaining replacement equipment from various overseas suppliers due to supply chain issues and the ongoing COVID-19 pandemic a) Please describe the nature of the failure of the substation REFCL	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
20	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	6	CalAdvocate s-PGE-2022WMP-13_6	How effective is REFCL compared to covered conductor installation in reducing wildfire risks? b) Please provide any available supporting documentation regarding your response to subpart (a) above. c) How effective is REFCL compared to undergrounding in reducing wildfire	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
21	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	7	CalAdvocate s-PGE-2022WMP-13_7	PG&E's 2022 WMP states: REFCL technology could not be fully evaluated beyond the initial testing because of the equipment failure and supply chain issues. As a result, PG&E is looking to further study REFCL capabilities after obtaining replacement supplies and making repairs and modifications at the Calistoga site in 2022. a) When does PG&E expect to obtain these replacement supplies?	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
22	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	8	CalAdvocate s-PGE-2022WMP-13_8	PG&E's 2022 WMP provides the following for "Lessons Learned" from the REFCL initiative in 2021: - PG&E should use gang operated switchgear and protective devices instead of single pole operated devices for REFCL installations. - PG&E should consider the use of domestically available equipment for future REFCL installations.	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
23	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	9	CalAdvocate s-PGE-2022WMP-13_9	PG&E's Test Year 2023 General Rate Case Testimony, Exhibit PG&E-4, states the following regarding the REFCL program: Based on our initial testing and the successful implementation in Australia, PG&E has developed a short-term strategy to install REFCLs in HFTD areas. PG&E forecasts deploying REFCLs at an additional two substations each year. Regarding these two 2022 WMP initiatives:	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
24	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	10	CalAdvocate s-PGE-2022WMP-13_10	7.3.3.17.4 - Updates to grid topology to minimize risk of ignition in HFTDs, Rapid Earth Current Fault Limiter 7.3.6.8 - Protective Equipment and Device Settings' 12	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	0		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
25	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	11	CalAdvocate s-PGE-2022WMP-13_11	a) How do these two initiatives differ? In its 2022 WMP and supporting attachments, PG&E does not appear to provide a Risk Spend Efficiency (RSE) score for 2022 WMP Initiative 7.3.3.17.4 - Updates to grid topology to minimize risk of ignition in HFTDs, Rapid Earth Current Fault Limiter. a) Please explain why PG&E is not providing RSE information for this initiative in the 2022 WMP or related supporting attachments	Miles Gordon Holly Wehman Carolyn Chen Laysa Labagh	3/4/2022	3/9/2022	3/9/2022	1		7.3.3.17.4	Grid Design and System Hardening	Rapid Earth Current Fault Limiter
26	OEIS	Set 003	OEIS-PG&E-22-003_1	1	OEIS-PG&E-22-003_1	Considering Maturity Model Survey question E.IV.h, how would PG&E answer this modified version? Does the utility work with landowners to provide a use(s) for vegetation cut on the landowner's property? (Y/N)	Kevin Miller	3/4/2022	3/10/2022	3/10/2022	0		7.3.5	Vegetation Management (VM) and Inspections	Vegetation grow-in mitigation
27	OEIS	Set 003	OEIS-PG&E-22-003_2	2	OEIS-PG&E-22-003_2	Considering Maturity Model Survey question E.V.f, how would PG&E answer this modified version? Does the utility work with landowners to provide a use(s) for vegetation cut on the landowner's property? (Y/N)	Kevin Miller	3/4/2022	3/10/2022	3/10/2022	0		7.3.5	Vegetation Management (VM) and Inspections	Vegetation fall-in mitigation
28	OEIS	Set 003	OEIS-PG&E-22-003_3	3	OEIS-PG&E-22-003_3	From the Maturity Survey, in Category E (Vegetation Management) it is apparent that PG&E is building a granular, frequently updated inventory (Capability 21) and moving towards using "predictive modeling of vegetation growth" to schedule vegetation inspections (E.II.c). However, PG&E still (and	Kevin Miller	3/4/2022	3/10/2022	3/10/2022	0		7.3.5	Vegetation Management (VM) and Inspections	Vegetation inspection effectiveness





88	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	1	CalAdvocate s-PGE-2022WMP-17_1	Per Table 12 of PG&E's 2022 WMP, the operating expenses for initiative 7.3.1.9 "Protective equipment and device settings" are as follows: 2021: \$18.2 million (actual) 2022: \$142.6 million (projected) 2023: \$140.5 million (projected) How does PG&E's 2022 WMP describe how PG&E will increase the number of EPSS-related outages that you currently forecast to occur in 2022. Provide a range if a specific estimate is not available. a) Please provide an estimate for the average duration of EPSS-related outages that you currently forecast to occur in 2022. Provide a range if a specific estimate is not available. b) Please provide an estimate for the average duration of EPSS-related outages that you currently forecast to occur in 2022. Provide a range if a specific estimate is not available. c) How does PG&E's 2022 WMP describe how PG&E will increase the number of EPSS-related outages that you currently forecast to occur in 2022. Provide a range if a specific estimate is not available. d) How does PG&E's 2022 WMP describe how PG&E will increase the number of EPSS-related outages that you currently forecast to occur in 2022. Provide a range if a specific estimate is not available.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.6.8	EPSS	EPSS Spend
89	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	2	CalAdvocate s-PGE-2022WMP-17_2	SC&SD SDG&E each have implemented fast recloser settings to de-energize a line rapidly upon detecting a fault. SCE's program is referred to here as "Fast Curve." SDG&E's program is referred to here as "Sensitive relay settings." a) When did PG&E first become aware of SCE's fast curve settings? b) When did PG&E first become aware of SDG&E's sensitive relay settings? c) How does PG&E consider implementing a similar program prior to 2021?	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.6.8	EPSS	EPSS-related outages
90	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	3	CalAdvocate s-PGE-2022WMP-17_3	SC&SD SDG&E each have implemented fast recloser settings to de-energize a line rapidly upon detecting a fault. SCE's program is referred to here as "Fast Curve." SDG&E's program is referred to here as "Sensitive relay settings." a) When did PG&E first become aware of SCE's fast curve settings? b) When did PG&E first become aware of SDG&E's sensitive relay settings? c) How does PG&E consider implementing a similar program prior to 2021?	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.6.8	EPSS	Device settings
91	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	4	CalAdvocate s-PGE-2022WMP-17_4	a) Has PG&E engaged in benchmarking, data-sharing, or other collaboration with SCE with regards to PG&E's EPSS program? b) If the answers to parts (a) is yes, please describe the collaboration(s). c) If the answers to parts (a) is no, please explain why not.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.6.8	EPSS	Benchmarking
92	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	5	CalAdvocate s-PGE-2022WMP-17_5	a) Has PG&E engaged in benchmarking, data-sharing, or other collaboration with SDG&E with regards to PG&E's EPSS program? b) If the answers to parts (a) is yes, please describe the collaboration(s). c) If the answers to parts (a) is no, please explain why not.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.6.8	EPSS	Benchmarking
93	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	6	CalAdvocate s-PGE-2022WMP-17_6	On November 2, 2021, Cal Advocates staff (and other stakeholders) visited the site of an overhead system hardening project, Diamond Springs 1107. At this site, Cal Advocates discussed the installation of covered conductor with PG&E staff. Cal Advocates was informed that, for this project, wider crossarms were being installed to minimize line sags of the heavier covered conductor. a) Is the above understanding correct with regard to the installation of wider crossarms on this project? b) What is PG&E's typical practice regarding installation or replacement of crossarms when installing covered conductor? c) Do PG&E's current design and construction standards typically call for different crossarm widths on poles that carry covered conductors than poles that carry bare conductors, for circuits of similar voltage?	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.3.3	Grid Design and System Hardening	Covered Conductor Installation
94	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	7	CalAdvocate s-PGE-2022WMP-17_7	On November 2, 2021, Cal Advocates staff (and other stakeholders) visited the site of an overhead system hardening project, Diamond Springs 1107. At this site, Cal Advocates discussed the installation of covered conductor with PG&E staff. Cal Advocates was informed that, for this project, new poles with intumescent wrap were being installed. a) What factors contribute to PG&E's selection of poles during covered conductor installation? b) How does PG&E's selection of poles during covered conductor installation differ from other projects? c) How does PG&E's selection of poles during covered conductor installation differ from other projects?	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/25/2022	3/25/2022	0	7.3.3.6	Grid Design and System Hardening	Distribution Pole Replacement and Reinforcement, Including with Composite Poles
94	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	7 SUPP	CalAdvocate s-PGE-2022WMP-17_7 SUPP	On November 2, 2021, Cal Advocates staff (and other stakeholders) visited the site of an overhead system hardening project, Diamond Springs 1107. At this site, Cal Advocates discussed the installation of covered conductor with PG&E staff. Cal Advocates was informed that, for this project, new poles with intumescent wrap were being installed. a) What factors contribute to PG&E's selection of poles during covered conductor installation? b) How does PG&E's selection of poles during covered conductor installation differ from other projects? c) How does PG&E's selection of poles during covered conductor installation differ from other projects?	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	4/1/2022	4/1/2022	0	7.3.3.6	Grid Design and System Hardening	Distribution Pole Replacement and Reinforcement, Including with Composite Poles
95	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	8	CalAdvocate s-PGE-2022WMP-17_8	Update_R0_Section 4.6_Acc011.pdf contains the joint response by PG&E, SCE, and SDG&E to the issue identified by Energy Safety titled "Limited evidence to support the effectiveness of covered conductor." Page 52 of this document states, with regard to event mitigation, "In general, a spacer cable system and an ABC (air) bundled cable system." a) What is the average trench depth PG&E employs in undergrounding projects? b) Has PG&E examined the potential benefits or drawbacks of shallower trenches? c) Please explain your response to part (b).	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	4.6	Progress Reporting on Key Areas of Improvement	Additional Detail
96	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	9	CalAdvocate s-PGE-2022WMP-17_9	a) What is the average trench depth PG&E employs in undergrounding projects? b) Has PG&E examined the potential benefits or drawbacks of shallower trenches? c) Please explain your response to part (b).	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.3.16	Grid Design and System Hardening	Undergrounding
97	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	10	CalAdvocate s-PGE-2022WMP-17_10	Please provide a spreadsheet listing (as rows) each undergrounding project completed during the period of January 1, 2020, through March 1, 2022. For each project, please provide the following information (as columns): a) Project ID number or other identifier b) Circuit ID c) ITP number of each CP7 that was antitrip undergrounded in the project Please provide a file geodatabase with a polyline feature for each undergrounding project completed during the period of January 1, 2020, through March 1, 2022. In addition to the spatial location, please provide the following attributes for each project: a) Project ID number or other identifier, matching part (a) of Question 10 b) Circuit ID	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/29/2022	3/29/2022	2	7.3.3.16	Grid Design and System Hardening	Undergrounding
98	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	11	CalAdvocate s-PGE-2022WMP-17_11	Please provide a file geodatabase with a polyline feature for each undergrounding project completed during the period of January 1, 2020, through March 1, 2022. In addition to the spatial location, please provide the following attributes for each project: a) Project ID number or other identifier, matching part (a) of Question 10 b) Circuit ID	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/29/2022	3/29/2022	1	7.3.3.16	Grid Design and System Hardening	Undergrounding
99	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	12	CalAdvocate s-PGE-2022WMP-17_12	Per the table on page 270 of PG&E's 2022 WMP, in 2022 PG&E plans to complete detailed ground inspections on a minimum of 396,000 distribution poles. In 2021, PG&E targeted completed inspections on 477,309 distribution poles, and completed inspections on 490,740 distribution poles. Please state the basis for the reduction in planned distribution inspections in 2022 compared to 2021.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.4	Asset Management and Inspections	Detailed Inspections of Distribution Electric Lines and Equipment
100	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	13	CalAdvocate s-PGE-2022WMP-17_13	Per the table on page 270 of PG&E's 2022 WMP, in 2021 PG&E completed detailed distribution inspections on all assets in HFTD Tier 3 and Zone 1, and approximately one-third of assets in HFTD Tier 2. Please describe any changes to the above strategy for PG&E's detailed distribution inspections in 2022.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.4.14	Asset Management and Inspections	Quality Assurance/Quality Control of Inspections
101	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	14	CalAdvocate s-PGE-2022WMP-17_14	Page 620 of PG&E's 2022 WMP states that Desktop QC activities are conducted based on "random selection," "targeted," or "probable cause." Random selection is described as "Determine the inspectors to evaluate using a simple random process methodology." Cal Advocates understands the above to mean that Desktop QC will perform QC checks on a subset of assets, that subset based on random selection. Per Table 12 of PG&E's 2022 WMP, the operating expenses for initiative 7.3.4.14 "Quality assurance/quality control of inspections" is as follows: 2021: \$2.3 million (actual) 2022: \$6.0 million (projected) a) Please state the basis for the reduction in forecasted operating expenditures related to this initiative.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.4.14	Asset Management and Inspections	Quality Assurance/Quality Control of Inspections
102	CaPA	Set WMP-17	CalAdvocates-PGE-2022WMP-17	15	CalAdvocate s-PGE-2022WMP-17_15	Per Table 12 of PG&E's 2022 WMP, the operating expenses for initiative 7.3.4.14 "Quality assurance/quality control of inspections" is as follows: 2021: \$2.3 million (actual) 2022: \$6.0 million (projected) a) Please state the basis for the reduction in forecasted operating expenditures related to this initiative.	Holly Wherhan Carolyn Chen Layla Labagh	3/21/2022	3/24/2022	3/24/2022	0	7.3.4.14	Asset Management and Inspections	Quality Assurance/Quality Control of Inspections
103	OEIS	Set 006	OEIS-PG&E-22-006	1	OEIS-PG&E-22-006_1	On 1/20/2022, in response to WMP-Discovery2022_DMC_CalAdvocates_D03-Q02, PG&E provided the below spreadsheet, an Excel table of all transmission circuits existing as of January 1, 2022. Energy Safety requires the below document and will adhere to established confidentiality requirements agreed to by PG&E and Energy Safety. 002. The frequency de-energized circuit map provides an "Identify" column that appears incomplete, as it does not show all circuits listed in Section 5.5, Table 5.5.1 as presented in the guidelines, to address Public Utilities Code Section 8386(c)(8) requiring the "Identification of circuits that have frequently been de-energized for safety reasons." Please provide a GIS file showing all EPSS outages and including an attribute for determined cause.	Kevin Miller	3/22/2022	3/25/2022	3/25/2022	1	N/A	Miscellaneous	Additional Detail
104	OEIS	Set 006	OEIS-PG&E-22-006	2	OEIS-PG&E-22-006_2	On 1/20/2022, in response to WMP-Discovery2022_DMC_CalAdvocates_D03-Q02, PG&E provided the below spreadsheet, an Excel table of all transmission circuits existing as of January 1, 2022. Energy Safety requires the below document and will adhere to established confidentiality requirements agreed to by PG&E and Energy Safety. 002. The frequency de-energized circuit map provides an "Identify" column that appears incomplete, as it does not show all circuits listed in Section 5.5, Table 5.5.1 as presented in the guidelines, to address Public Utilities Code Section 8386(c)(8) requiring the "Identification of circuits that have frequently been de-energized for safety reasons." Please provide a GIS file showing all EPSS outages and including an attribute for determined cause.	Kevin Miller	3/22/2022	3/25/2022	3/25/2022	2	8.6	PSPS	Identification of Frequently De-Energized Circuits
105	MGRA	2	MGRA Data Request No. 2	1	MGRA Data Request No. 2_1	Please provide a GIS file showing all EPSS outages and including an attribute for determined cause.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	N/A	EPSS	Outage History
106	MGRA	2	MGRA Data Request No. 2	2	MGRA Data Request No. 2_2	Please provide data for all ignitions that occurred while EPSS was active on a circuit, including site and attributed cause.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	N/A	EPSS	Ignition Trends
107	MGRA	2	MGRA Data Request No. 2	3	MGRA Data Request No. 2_3	Is SmartMeter Partial Voltage Detection used for emergency de-energization?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	N/A	EPSS	Additional Detail
108	MGRA	2	MGRA Data Request No. 2	4	MGRA Data Request No. 2_4	On p. 860, Figure PG&E 8.1-3, guideline categories are shown for Asset, Vegetation, and Consequence. Is the "Consequence" category the result of PG&E's application of its "Black Swan" criteria, in which it shuts off power under conditions of high fire spread without regard to ignition probability?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	8	PSPS	Additional Detail
109	MGRA	2	MGRA Data Request No. 2	5	MGRA Data Request No. 2_5	On p. 906, PG&E describes its decision-making process for PSPS. How does the existence of fires in or threatening the potential PSPS areas affect the decision to de-energize?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	8	PSPS	Additional Detail
110	MGRA	2	MGRA Data Request No. 2	6	MGRA Data Request No. 2_6	On page 8, PG&E discusses "new modeling" for ignition risk. Please provide the description of what this "new modeling" consists of or provide and appropriate references.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
111	MGRA	2	MGRA Data Request No. 2	7	MGRA Data Request No. 2_7	In Table PG&E 4.2-2, WILDFIRE RISK DRIVERS, the frequency of facility failures plus object contact in the HFTD is 60, compared to 74 for vegetation contact. Frequency of vegetation contact is 23% larger than the other two drivers. For the percentage of risk in the HFTD, equipment failures plus object contact represents 39.6% of the risk, while vegetation contact represents 59.3% of the risk. Frequency of vegetation contact is 62% larger than the other two drivers combined. How does PG&E account for this discrepancy?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Wildfire Risk Data
112	MGRA	2	MGRA Data Request No. 2	8	MGRA Data Request No. 2_8	On page 129, Figure PG&E 4.5.1.3, 2022 WDRM V3 COMPOSITE MODEL ARCHITECTURE, was the new WDRM V3 used in the GRC update provided in February?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Risk Model
113	MGRA	2	MGRA Data Request No. 2	9	MGRA Data Request No. 2_9	Please ask Technosylva to provide a table and plot of 8 hour fire sizes against final fire sizes for a large (reasonably complete) set of historical fires.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Additional Data
114	MGRA	2	MGRA Data Request No. 2	10	MGRA Data Request No. 2_10	Provide a non-confidential version of documentation describing the IPW model.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Additional Data
115	MGRA	2	MGRA Data Request No. 2	11	MGRA Data Request No. 2_11	On p. 189, PG&E states that the IPW model uses the Cat Boost Machine Learning model. What implementation of the Cat Boost Machine learning model was used for the IPW?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.1	Risk Assessment and Mapping	Additional Data
116	MGRA	2	MGRA Data Request No. 2	12	MGRA Data Request No. 2_12	On p. 191, PG&E states that with its IPW model "Operational Meteorologists used the dashboard to evaluate model performance against key historical storm events, evaluating timing of weather onset compared to modeled outage probability increases, and relative magnitude of outage probabilities." Please provide tabular and graphical analysis showing how the IPW finds that ignition probability increases versus wind speed for the five driver classes.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	2	7.3.1	Risk Assessment and Mapping	Additional Data
117	MGRA	2	MGRA Data Request No. 2	13	MGRA Data Request No. 2_13	On p. 265 PG&E describes its undergrounding efforts "including a small volume of previously hardened overhead lines that are being placed underground, and any other undergrounding work performed in HFTD or fire rebuild areas." How many miles of previously hardened lines are being put underground and what is the motivation for this action?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.3	Undergrounding	Additional Data
118	MGRA	2	MGRA Data Request No. 2	14	MGRA Data Request No. 2_14	Are the reviews of staff, management, or executives in any way tied to targets related to the successful completion of undergrounding projects?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.3	Undergrounding	Additional Data

119	MGRA	2	MGRA Data Request No. 2	15	MGRA Data Request No. 2_15	In attachment TN10634-0_20220225144600_Section 71H_Atch01_WorkMaps, PG&E provides maps for Covered conductor installation, Undergrounding of Electric lines or Equipment, and System hardening including line removal. Please provide these maps as a GIS file.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.3	Grid Design and System Hardening	Additional Data
120	MGRA	2	MGRA Data Request No. 2	16	MGRA Data Request No. 2_16	Please provide a non-confidential version of Data request response WMP-Discovery2022_DR_CalAdvocates_003-Q01Atch01(CONF1) regarding PG&E's hardening program.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.3	Grid Design and System Hardening	Additional Data
121	MGRA	2	MGRA Data Request No. 2	17	MGRA Data Request No. 2_17	On p. 319, PG&E states that it has "Developed a weather-station specific wind gust model, with particular emphasis on Diablo winds". Please provide the documentation for this weather model.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.2	Situational Awareness and Forecasting	Additional Data
122	MGRA	2	MGRA Data Request No. 2	18	MGRA Data Request No. 2_18	On how many weather stations is 30 second weather observations collected? Please provide a list if it is not the complete set of weather stations. How long is the 30 second data maintained on the weather station? Is the 30 second weather data available to the public and are there any plans to make it so?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.2	Situational Awareness and Forecasting	Additional Data
123	MGRA	2	MGRA Data Request No. 2	19	MGRA Data Request No. 2_19	On p. 384 PG&E states that "The phase and magnitude of the Madden-Julian Oscillation was shown to be a potential predictor of upcoming Diablo wind events by both internal and external research. Provide appropriate citations.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.2	Situational Awareness and Forecasting	Additional Data
124	MGRA	2	MGRA Data Request No. 2	20	MGRA Data Request No. 2_20	On p. 765, PG&E states that its "Eli team conducted audit of multiple work tracking databases to identify ignitions that had been missed in the past, processing PG&E's reportable ignition record by 23 percent." Please provide a complete set of the newly identified ignitions in GIS format.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.7.4	Data Governance	Tracking and Analysis of Risk Event Data
125	MGRA	2	MGRA Data Request No. 2	21	MGRA Data Request No. 2_21	Provide the Eli "data dictionary/review guide for all collected (ignition) data points" with any confidential information removed.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	7.3.7.1	Data Governance	Centralized Repository for Data
126	MGRA	2	MGRA Data Request No. 2	22	MGRA Data Request No. 2_22	Provide the contents of TABLE PG&E-8.6-1 LIST OF FREQUENTLY DE-ENERGIZED CIRCUITS in Excel format.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	1	8	PSPS	Additional Data
127	MGRA	2	MGRA Data Request No. 2	23	MGRA Data Request No. 2_23	23 Followup, not Supp.	Joseph Mitchell on behalf of MGRA	3/23/2022	4/1/2022	4/1/2022	1	N/A	Miscellaneous	Ignition Trends
127	MGRA	2	MGRA Data Request No. 2	23	MGRA Data Request No. 2_23	23 Followup, not Supp.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	N/A	Miscellaneous	Ignition Trends
128	MGRA	2	MGRA Data Request No. 2	24	MGRA Data Request No. 2_24	On p. 7.1 E-Atch-21, the RSE for REFCL is given as 40. Please explain the factors that go into reaching this low estimate.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	N/A	Miscellaneous	REFCL
129	MGRA	2	MGRA Data Request No. 2	25	MGRA Data Request No. 2_25	In the data request response WMP-Discovery2022_DR_CalAdvocates_013-Q01Atch01.xlsx, please verify the following interpretation: For a REFCL deployment, PG&E projects a \$7M capex, plus \$14M O&M opening cost through 2026, constituting 14% of its 25,000 miles, and that the protection is 58% effective.	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	N/A	Miscellaneous	REFCL
130	MGRA	2	MGRA Data Request No. 2	26	MGRA Data Request No. 2_26	On p. 631 PG&E states that its Tree Assessment Tool (TAT) incorporates "local wind gust data" - is the local wind gust data specific to fire weather conditions (such as a Diablo corridor) or does it include winter storm conditions?	Joseph Mitchell on behalf of MGRA	3/23/2022	3/28/2022	3/28/2022	0	7.3.5	Vegetation Management (VM) and Inspections	Additional Efforts to Manage Community and Environmental Impacts
131	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	1	CalAdvocate s-PGE-2022WMP-18_1	PG&E's response to data request CalAdvocates-PGE-2022WMP-16, Question 11 referred to Exhibit PG&E-4 from PG&E's February 25, 2022 GRC Update. Page 9-20 of this exhibit states, "The updated EVM scope of work focuses on PG&E's response to data request CalAdvocates-PGE-2022WMP-16, Question 16 shows a reduction of approximately \$412 million in projected total vegetation management expenditures from 2022 to 2023.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.5	Vegetation Management (VM) and Inspections	Additional Detail
132	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	2	CalAdvocate s-PGE-2022WMP-18_2	a) Does the reduction in total VM expenditure from 2022 to 2023 result primarily from PG&E's plan to combine aspects of the EVM program into routine VM? If the answer is not "Yes," please explain all the substitutions used in the response to part (a) in its use. Please explain all the substitutions used in the response to part (a) in its use. Please explain all the substitutions used in the response to part (a) in its use.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.5	Vegetation Management (VM) and Inspections	VM Spend
133	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	3	CalAdvocate s-PGE-2022WMP-18_3	b) What is PG&E's current estimate for the service life of newly installed traditional (non-covered conductor) overhead distribution conductors?	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.3	Grid Design and System Hardening	Service Life of Assets
134	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	4	CalAdvocate s-PGE-2022WMP-18_4	What is PG&E's current estimate for the service life of newly installed traditional (non-covered conductor) overhead distribution conductors? Please describe the role of QA/QV as used in OEIS-PG&E-22-005, Question 3.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	11	7.3.5	Vegetation Management (VM) and Inspections	Quality Assurance/Quality Control of Vegetation Management
135	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	5	CalAdvocate s-PGE-2022WMP-18_5	Please explain why PG&E's QA/QV response does not include evaluation of the As part of PG&E's response to issue 5.4.B, PG&E included the following attachments to its 2022 WMP: 2022-02-25_PGE_2022_WMP_Update_R0_Section 4.6_Remedies 5.4.B_Atch02.xlsx 2022-02-25_PGE_2022_WMP_Update_R0_Section 4.6_Remedies 5.4.B_Atch03.xlsx	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.4	Asset Management and Inspections	Additional Detail
136	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	6	CalAdvocate s-PGE-2022WMP-18_6	PG&E's written response to issue 5.4.B.3 states that priority A is used for "Conditions that require immediate action." The following priority A correctives opened in 2021 have a required end date 4 several months after the creation date. For each, please explain why the tag did not require immediate action.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.4	Asset Management and Inspections	Additional Detail
137	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	7	CalAdvocate s-PGE-2022WMP-18_7	a) Why PG&E's procedures allow a priority A corrective notification to be given a required end date more than 1 month after the date the condition is found in the field? b) In what circumstances it would be appropriate for an inspector to create a priority A corrective and action a required end date more than 30 days in the field?	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.4	Asset Management and Inspections	Additional Detail
138	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	8	CalAdvocate s-PGE-2022WMP-18_8	PG&E's response to data request CalAdvocates-PGE-2022WMP-16, Question 5, states, "Pre-Inspection Follow Procedure TD-7102P-23 for Red Flag Warning procedure and TD-7102P-17 for Priority Tag Procedure to review and re-prioritize work within the RFV area." Please provide documents TD-7102P-23 and TD-7102P-17.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	2	7.3.5	Vegetation Management (VM) and Inspections	Emergency Response Vegetation Management Due to Red Flag Warning or Other Urgent Remote Setting Inspections of Vegetation Around Distribution Electric Lines and Equipment
139	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	9	CalAdvocate s-PGE-2022WMP-18_9	PG&E's response to data request CalAdvocates-PGE-2022WMP-16, Question 6, states, "The current use case for VM Distribution LIDAR is tied to the VM Routine Program. LIDAR collection in line with the VM Routine schedule requires more agility than is currently possible with aerial LIDAR collections." Please explain why aerial LIDAR inspections are not currently possible with the VM Routine Program schedule and what are the options for improving the use of LIDAR.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.5	Vegetation Management (VM) and Inspections	Remote Setting Inspections of Vegetation Around Distribution Electric Lines and Equipment
140	CalPA	Set WMP-18	CalAdvocates-PGE-2022WMP-18	10	CalAdvocate s-PGE-2022WMP-18_10	6, states, "GBL scanning costs are approximately \$400 per mile, including scanning, data processing and electrical asset and vegetation feature extraction." According to Table 12 of your WMP, the projected 2022 OPEX cost for initiative 7.3.4.7, "Protect sensitive inspections of vegetation around distribution electric lines" includes, among other definitions, "The top 20 percent of circuit segments as defined by PG&E's 2021 WDRM v2 for System Hardening."	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/30/2022	3/30/2022	0	7.3.5	Vegetation Management (VM) and Inspections	Remote Setting Inspections of Vegetation Around Distribution Electric Lines and Equipment
141	CalPA	Set WMP-19	CalAdvocates-PGE-2022WMP-19	1	CalAdvocate s-PGE-2022WMP-19_1	Page 13 of PG&E's 2022 WMP states that, for 2022, "the highest wildfire risk miles" includes, among other definitions, "The top 20 percent of circuit segments as defined by PG&E's 2021 WDRM v2 for System Hardening."	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/31/2022	3/31/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
142	CalPA	Set WMP-19	CalAdvocates-PGE-2022WMP-19	2	CalAdvocate s-PGE-2022WMP-19_2	Please provide the following data to "CalAdvocates-PGE-2022WMP-19 Atch01.xlsx" (with changes to the attachment as required by Question 1c) as new columns. Provide this data as of 2/1/2022, or the most current verified data, whichever is more recent.	Holly Wherhan Carolyn Chen Layla Labagh	3/25/2022	3/31/2022	3/31/2022	1	7.3.3	Grid Design and System Hardening	Additional Detail
143	OEIS	Set 007	OEIS-PG&E-22-007	1	OEIS-PG&E-22-007_1	On p. 10 of the 2021 10-year PS&S lookback analysis, PG&E identified potential locations for our transmission and distribution PS&S mitigation programs."	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	8	PS&S	Additional Detail
144	OEIS	Set 007	OEIS-PG&E-22-007	2	OEIS-PG&E-22-007_2	a) In addition to PS&S risk PG&E also evaluating prioritization for our transmission and distribution PS&S mitigation programs based on risk explicit thresholds for initiating a PS&S? PG&E's answer has remained the same from 2021 to 2022.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	Maturity Survey
145	OEIS	Set 007	OEIS-PG&E-22-007	3	OEIS-PG&E-22-007_3	a) At what point in time does PG&E expect to have explicit policies for the circumstances does the utility de-energize circuits? Select all that apply. PG&E answered all options: 1. Upon detection of damaged conditions of electric equipment. 1. When circuit presents a safety risk.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	Maturity Survey
146	OEIS	Set 007	OEIS-PG&E-22-007	4	OEIS-PG&E-22-007_4	Does the utility have explicit policies for the circumstances does the utility de-energize sections of the grid prior to re-energizing? In the 2021 Survey, PG&E answered as of January 1, 2023 it would be "Partially automated" - SO2 and this year changed that answer to "Manual".	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	Maturity Survey
147	OEIS	Set 007	OEIS-PG&E-22-007	5	OEIS-PG&E-22-007_5	Does the utility have explicit policies for the circumstances does the utility de-energize sections of the grid prior to re-energizing? In the 2021 Survey, PG&E answered as of January 1, 2023 it would be "Partially automated" - SO2 and this year changed that answer to "Manual".	Kevin Miller	3/25/2022	3/31/2022	3/31/2022	1	7.3.3	Grid Design and System Hardening	EPSS Reliability Impact Analysis
148	OEIS	Set 007	OEIS-PG&E-22-007	6	OEIS-PG&E-22-007_6	WMP-Discovery2022_DR_OEIS_005-Q01Atch01: a) Define the population of transmission detailed ground inspections reviewed through Desktop Reviews, including but not limited to the number of inspections reviewed through Desktop Reviews.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
148	OEIS	Set 007	OEIS-PG&E-22-007	6 REV	OEIS-PG&E-22-007_6 REV	WMP-Discovery2022_DR_CalAdvocates_012-Q02Atch01: a) Define the population of transmission detailed ground inspections reviewed through Desktop Reviews, including but not limited to the number of inspections reviewed through Desktop Reviews.	Kevin Miller	3/25/2022	4/1/2022	4/1/2022	0	7.3.4.14	Asset Management and Inspections	Quality assurance / quality control of inspections
149	OEIS	Set 007	OEIS-PG&E-22-007	7	OEIS-PG&E-22-007_7	Does the utility have explicit policies for the circumstances does the utility de-energize sections of the grid prior to re-energizing? In the 2021 Survey, PG&E answered as of January 1, 2023 it would be "Partially automated" - SO2 and this year changed that answer to "Manual".	Kevin Miller	3/25/2022	4/8/2022	4/8/2022	1	7.3.4.14	Asset Management and Inspections	Detailed Inspections of Transmission Electric Lines and Equipment
150	OEIS	Set 007	OEIS-PG&E-22-007	8	OEIS-PG&E-22-007_8	Q08. Regarding Table 5.3-1, provide similar information for system hardening including undergrounding	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.3	Grid Design and System Hardening	Additional Detail

151	OEIS	Set 007	OEIS-PG&E-22-007	9	OEIS-PG&E-22-007_9	Q09. Provide a copy of E3's review of PG&E's 2022 WDRM v3 and WFC Model when it is complete.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	4.5	Model and Metric Calculation Methodologies	Wildfire Distribution Risk Model
151	OEIS	Set 007	OEIS-PG&E-22-007	9Supp	OEIS-PG&E-22-007_9Supp	Q09. Provide a copy of E3's review of PG&E's 2022 WDRM v3 and WFC Model when it is complete.	Kevin Miller	3/25/2022	3/30/2022	6/2/2022	1	4.5	Model and Metric Calculation Methodologies	Wildfire Distribution Risk Model
152	OEIS	Set 007	OEIS-PG&E-22-007	10	OEIS-PG&E-22-007_10	In Southern California Edison's 2022 WMP Update, the utility states that "in high and medium vibration susceptibility areas, vibration can reduce the covered conductor's useful life from 45 years to an average of 20 years if not addressed" and that "[i]n installing dampers minimizes equipment failure ignition drivers, such as damage or failure of the conductor, connector, and/or splice" (Section 7.3.3.3 of the 2022 WMP Update, pg. 2013). This joint response on covered conductor effectiveness states "[several covered conductor-specific failure modes exist that require operators to consider additional personnel training, updated inspection practices, and adoption of new mitigation strategies (e.g., additional lightning arrestors, conductor washing operations, etc.)".	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.3	Grid Design and System Hardening	Vibration Susceptibility
153	OEIS	Set 007	OEIS-PG&E-22-007	11	OEIS-PG&E-22-007_11	Regarding covered conductor inspections and maintenance.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	1	7.3.3	Grid Design and System Hardening	Additional Detail
154	OEIS	Set 007	OEIS-PG&E-22-007	12	OEIS-PG&E-22-007_12	a) Provide the following job aids: i) TD-2305M-JA02 ii) TD-2305M-JA08	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	3	7.3.3	Grid Design and System Hardening	Covered Conductor Maintenance
155	OEIS	Set 007	OEIS-PG&E-22-007	13	OEIS-PG&E-22-007_13	Regarding WMP-Discovery2022_DR_CalAdvocates_004-Q09A1ch01.xlsx and Discovery2022_DR_CalAdvocates_004-Q09A1ch01.xlsx	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	1	7.3.1	Risk Assessment and Mapping	Additional Detail
156	OEIS	Set 007	OEIS-PG&E-22-007	14	OEIS-PG&E-22-007_14	Provide WMP-Discovery2022_DR_CalAdvocates_004-Q09A1ch01.xlsx with the additional columns: a) Wildfire Risk Score - 2022 b) Wildfire Risk Score - 2021	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
157	OEIS	Set 007	OEIS-PG&E-22-007	15	OEIS-PG&E-22-007_15	PG&E's response to WMP-Discovery2022_DR_DEIS_002-Q07, PG&E states that they "are also reviewing and evaluating the Risk Associated with Value Exposure (RAVE) module from Technosys that has components for estimating sagging considering location and community factors."	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
158	OEIS	Set 007	OEIS-PG&E-22-007	16	OEIS-PG&E-22-007_16	In PG&E's 2022 WMP Update, PG&E states that "because system hardening work is generally identified 12 or more months before construction, the decision tree that was used for selecting between various distribution system hardening methods (e.g., undergrounding, covered conductor, etc.) was not able to account for the most recent data on circuits in the HFTD areas, HFRA and non HFTD but zones based on highest projected Customer Experiencing Sustained Outage (CESO)."	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	EPSS	Additional Detail
160	OEIS	Set 007	OEIS-PG&E-22-007	18	OEIS-PG&E-22-007_18	a) Explain a list of what "reliability mitigations" include. b) Provide a list of what "reliability mitigations" include for each distribution pole. c) Explain how PG&E sets a target for 7,000 distribution poles in the HFTD. d) To what standard does PG&E clear these poles? (i.e., to what radius and height?)	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	1	7.3.5	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines
161	OEIS	Set 007	OEIS-PG&E-22-007	19	OEIS-PG&E-22-007_19	Provide the rationale behind choosing the standard, including any specific or based on mitigations and improved protocols and lessons learned in 2021. For instance, per PSPS event in PG&E's 8-3-1 on page 934, PG&E shows estimated quantitative reduction of scope (Number of Customers of 26,843 and estimated reduction in number of distribution poles of 4,444).	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	8	PSPS	Additional Detail
162	OEIS	Set 007	OEIS-PG&E-22-007	20	OEIS-PG&E-22-007_20	a) How many of PG&E's weather stations have been upgraded to give readings at 10 to 30-second intervals? b) How many (in percentages) of PG&E's weather stations are ground-based?	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.2	Situational Awareness and Forecasting	Weather Stations
163	OEIS	Set 007	OEIS-PG&E-22-007	21	OEIS-PG&E-22-007_21	Regarding PG&E's response to Maturity Survey question B.III.c: a) Please describe how PG&E interprets span based.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	Maturity Survey
164	OEIS	Set 007	OEIS-PG&E-22-007	22	OEIS-PG&E-22-007_22	Regarding PG&E's response to Maturity Survey question B.II.c: a) Please describe what PG&E needs to do to improve weather data granularity to the span-based level.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	Maturity Survey
165	OEIS	Set 007	OEIS-PG&E-22-007	23	OEIS-PG&E-22-007_23	Regarding Safety and Infrastructure Protection Teams (SIPT) in section 7.3.2.5: a) In 2022, PG&E is planning on increasing staffing by 22 full-time employees. How many SIPT Crews and Engines will PG&E have after increasing the staffing?	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	7.3.2	Situational Awareness and Forecasting	Personnel Monitoring Areas of Electric Lines and Equipment in Field
166	OEIS	Set 007	OEIS-PG&E-22-007	24	OEIS-PG&E-22-007_24	Regarding DTS FAST on Page 874: a) Was the prototype field test installation at the Santa Cruz service center that was completed in 2021 on distribution or transmission? b) Please provide an explanation on what approving the final version of DTS FAST.	Kevin Miller	3/25/2022	3/30/2022	3/30/2022	0	N/A	Miscellaneous	DTS FAST
167	MGRA	3	MGRA Data Request No. 3	1	MGRA Data Request No. 3_1	Please explain technically how PG&E's WDRM applies a conditional probability or makes any other adjustment to account for the fact the Technosys weather model is in an on "wet weather days" while the Probability of Ignition model analyzes all ignitions whether they are on worst weather days or not.	Joseph Mitchell on behalf of MGRA	3/28/2022	3/31/2022	3/31/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
168	MGRA	4	MGRA Data Request No. 4	1	MGRA Data Request No. 4_1	In the WDRM v3 model, has Cal Fire outcome data derived from VIIRS correlation now replaced the 8 hour Technosys simulation?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
169	MGRA	4	MGRA Data Request No. 4	2	MGRA Data Request No. 4_2	What is the remaining role of Technosys simulation in the v3 model?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
170	MGRA	4	MGRA Data Request No. 4	3	MGRA Data Request No. 4_3	If the Technosys outputs are linked to the VIIRS data, how is this linkage performed?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
171	MGRA	4	MGRA Data Request No. 4	4	MGRA Data Request No. 4_4	Specify how consequences are assigned from the VIIRS fires to the Cal Fire fire outcomes data set. Is this assignment based on a specific mapping, on averages, or on a Monte Carlo?	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
172	MGRA	4	MGRA Data Request No. 4	5	MGRA Data Request No. 4_5	PG&E states that: "The seasonal (Pignition) value are the result of marginalizing daily (Pignition) values across days from historic seasons (i.e. based on daily weather and fuel conditions) to produce a seasonal value derived from daily estimates."	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
173	MGRA	4	MGRA Data Request No. 4	6	MGRA Data Request No. 4_6	Is the seasonal (Pignition) multiplied by a seasonal estimate of consequence scores to obtain a seasonal risk score for each driver? Or is the daily (ignition/outage) multiplied by the daily consequence score, and the risk score averaged over seasons? If neither of these mechanisms explain risk scoring provide additional detail.	Joseph Mitchell on behalf of MGRA	4/1/2022	4/5/2022	4/5/2022	0	7.3.1	Risk Assessment and Mapping	Additional Detail
174	OEIS	Set 008	OEIS-PG&E-22-008	1	OEIS-PG&E-22-008_1	D01. In section 7.3.2.2.6, Distribution Arcing Fault Signature Library, PG&E described completing an R&D project at the end of 2021, and the AH&PC team performed a strategic assessment of the results. PG&E then determined that the outcome of the pilot was not sufficient to develop a comprehensive fast signature library applicable to the larger incipient fault analytics tools that will be used to proactively detect and mitigate conditions that might result in a wildfire. And that no future actions are planned at this time. a) Please provide the details from the assessment of the results from the R&D project and what the limitations were that led to the decision to no longer pursue the initiative.	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	0	7.3.2.2.6	Situational Awareness and Forecasting	Distribution Arcing Fault Signature Library
175	OEIS	Set 008	OEIS-PG&E-22-008	2	OEIS-PG&E-22-008_2	Q02. In WMP-Discovery2022_DR_CalAdvocates_014-Cl09 PG&E states that "some in-progress projects are forecasted in service towards the end of 2022" regarding transmission hardening projects. a) Provide the mileage of projects described to be forecasted. Q03. Regarding PG&E's asset inspections, by distribution system hardening projects. a) What percentage of inspections are completed by contractors vs. internally by PG&E employees? b) Provide a list of contractors used for asset inspections.	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	0	7.3.3.17.2	Grid Design and System Hardening	System Hardening - Transmission
176	OEIS	Set 008	OEIS-PG&E-22-008	3	OEIS-PG&E-22-008_3	Q03. Regarding PG&E's asset inspections, by distribution system hardening projects. a) What percentage of inspections are completed by contractors vs. internally by PG&E employees? b) Provide a list of contractors used for asset inspections.	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	1	7.3.4	Asset Management and Inspections	Additional Detail
177	OEIS	Set 008	OEIS-PG&E-22-008	4	OEIS-PG&E-22-008_4	D04. Provide the geospatial files for the HFRA modifications shown on pg. 77 of PG&E's 2022 WMP Update.	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	1	4.2.1	Lessons Learned and Risk Trends	Service Territory Fire-Threat Evaluation and Ignition Risk Trends
178	OEIS	Set 008	OEIS-PG&E-22-008	5	OEIS-PG&E-22-008_5	D05. In CalAdvocates_007-Q01, PG&E states that "I completed over 210 miles of distribution system hardening, with approximately 65% of these circuits falling within the highest risk miles defined as the top 20% of the risk buydown curve, fire re-bulk miles, and PSPS mitigation miles."	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	0	7.3.3.17.1	Grid Design and System Hardening	System Hardening
179	OEIS	Set 008	OEIS-PG&E-22-008	6	OEIS-PG&E-22-008_6	D06. In PG&E's 2022 WMP Update, in section 7.3.7.4, PG&E discusses that it conducted an audit of work tracking databases which identified ignitions which had not been reported, "increasing PG&E's reportable ignition record by 23 percent." Regarding this audit, Energy Safety would like to know: a) How many ignitions were identified? b) How many of these ignitions were reported? c) How many of these ignitions were not reported? d) How many of these ignitions were reported but not tracked? e) How many of these ignitions were not reported but tracked?	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	2	7.3.7.4	Data Governance	Documentation and disclosure of wildfire-related data and algorithms
180	OEIS	Set 008	OEIS-PG&E-22-008	7	OEIS-PG&E-22-008_7	D07. In response to Data Request OEIS-PG&E-2022-001, Question 5a, PG&E states that it re-evaluated its 2021 (Maturity Survey) response related to communications tools (Question F.V.b). PG&E also states, "because of the communications challenges in certain parts of our service territory, the current communications tools are not sufficient to address the challenges." a) How many of these communications tools are not sufficient to address the challenges? b) How many of these communications tools are sufficient to address the challenges? c) How many of these communications tools are not sufficient to address the challenges but are being improved? d) How many of these communications tools are not sufficient to address the challenges but are being replaced?	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	0	N/A	Miscellaneous	Maturity Survey
181	OEIS	Set 008	OEIS-PG&E-22-008	8	OEIS-PG&E-22-008_8	D08. On p. 74 of PG&E's 2021 WMP Update, PG&E states that it projected a need to hire approximately 40 Linemen and 100 Apprentices each year for the next five years, based on an internal demand and supply review. On p. 758 of PG&E's 2022 WMP Update, PG&E states that it hired 41 Linemen and 123 Apprentices in 2021. a) How many of these hires were Linemen? b) How many of these hires were Apprentices? c) How many of these hires were Linemen or Apprentices who were not hired by PG&E? d) How many of these hires were Linemen or Apprentices who were not hired by PG&E but were hired by other utilities? e) How many of these hires were Linemen or Apprentices who were not hired by PG&E but were hired by other utilities and then transferred to PG&E?	Kevin Miller	4/1/2022	4/6/2022	4/6/2022	0	7.3.8.1	Emergency Planning and Preparedness	Adequate and Trained Workforce for Service Restoration
182	CaPA	Set WMP-20	CalAdvocates-PGE-2022WMP-20_1	1	CalAdvocates-PGE-2022WMP-20_1	In response to Data Request CalAdvocates-PGE-2022WMP-17, Question 1, PG&E said, "For 2021, approximately 96% of covered conductor projects included pole replacements. Among the 96% of covered conductor projects in 2021 that did involve pole replacements, what percentage of poles were reinforced, not replaced?"	Holly Wherham Carolyn Chen Layla Labagh	4/5/2022	4/8/2022	4/11/2022	0	7.3.3.6	Grid Design and System Hardening	Distribution Pole Replacement and Reinforcement, Including with Composite Poles
183	CaPA	Set WMP-20	CalAdvocates-PGE-2022WMP-20_2	2	CalAdvocates-PGE-2022WMP-20_2	a) On average, how many poles per circuit-mile exist on bare-wire distribution circuits in HFTD? b) On average, how many poles per circuit-mile exist on covered conductor distribution circuits in HFTD?	Holly Wherham Carolyn Chen Layla Labagh	4/5/2022	4/8/2022	4/11/2022	0	7.3.3.6	Grid Design and System Hardening	Distribution Pole Replacement and Reinforcement, Including with Composite Poles
184	OEIS	Set 009	OEIS-PG&E-22-009	1	OEIS-PG&E-22-009_1	D01. Based on analysis of information reported in the WMP, PG&E reports a \$530 million increase in vegetation management category initiatives over the amount projected for 2022 in the 2021 WMP Update. a) What accounts for the \$530 million increase in vegetation management category initiatives?	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	0	7.3.5	Vegetation Management (VM) and Inspections	Program Cost Projection

185	OEIS	Set 009	OEIS-PG&E-22-009	2	OEIS-PG&E-22-009_2	Q02: Based on analysis of information reported in the WMP, PG&E reports an increase of \$198 million in Grid Design and System Hardening category initiatives over the amount projected for 2022 in the 2021 WMP Update. a) What accounts for zero spending for 2022 in the 2021 WMP Update? b) Provide expenditures for undergrounding initiatives for 2022.	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	1	7.3.3	Grid Design and System Hardening	Program Cost Projection
186	OEIS	Set 009	OEIS-PG&E-22-009	3	OEIS-PG&E-22-009_3	Q03: Table 12 shows zero spending for the undergrounding grid hardening initiative 7.3.3.16. Undergrounding of electric lines and/or equipment (Row 61). a) What accounts for zero spending on undergrounding initiatives in Table 12? b) Provide expenditures for undergrounding initiatives for 2022.	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	0	7.3.3.16	Grid Design and System Hardening	Undergrounding
187	OEIS	Set 009	OEIS-PG&E-22-009	4	OEIS-PG&E-22-009_4	Q04: Table 12 shows zero spending for the undergrounding grid hardening initiative 7.3.3.3 Covered conductor installation (Row 38). a) What accounts for zero spending on covered conductor initiatives in Table 12? b) Provide expenditures for covered conductor initiatives for 2022.	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	0	7.3.3.3	Grid Design and System Hardening	Covered Conductor Installation
188	OEIS	Set 009	OEIS-PG&E-22-009	5	OEIS-PG&E-22-009_5	Q05: Based on analysis of information reported in the WMP, spending in the data governance initiative category decreased by \$53 million compared to the amount projected from the 2021 WMP Update. a) What accounts for the \$53 million decrease in data governance initiative spending?	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	0	7.3.7	Data Governance	Program Cost Projection
189	OEIS	Set 009	OEIS-PG&E-22-009	6	OEIS-PG&E-22-009_6	Q06: Provide the following information regarding PSPS Distribution sectionalizing devices: a) The average number of sectionalizing devices per circuit mile. b) PG&E's goal for number of sectionalizing devices per circuit mile.	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	0	7.3.3.8.1	Grid Design and System Hardening	Distribution Sectionalizing Devices
190	OEIS	Set 009	OEIS-PG&E-22-009	7	OEIS-PG&E-22-009_7	Q07: In PG&E's 2022 WMP Update, in section 7.3.7.4, PG&E reports that it conducted an audit of work tracking databases which identified ignitions which had not been reported. Energy a) Provide a list of the ignitions identified in the audit. b) Provide a list of the ignitions identified in the audit that were not reported. c) Provide a list of the ignitions identified in the audit that were not reported and for which PG&E is responsible for the content of your answer) for each piece of information requested. If the responding individual is not your employee, please provide their name, title, and employer, as well as the name and title of your employee who is directly responsible for the audit of the responding individual.	Kevin Miller	4/8/2022	4/13/2022	4/13/2022	2	7.3.7.4	Data Governance	Documentation and disclosure of wildfire-related data and algorithms
191	Will Abrams	Set 01	WillAbrams-Set 01	1	WillAbrams-Set 01_1	Q: (a) How has PG&E mitigated this to ensure that isolators are secured throughout their infrastructure and not swinging and causing sparks and catastrophic wildfires? (b) Has PG&E made efforts to mitigate the swinging of vertical insulator strings now that this has been identified as a cause of catastrophic wildfire? (c) What has PG&E changed in terms of their inspections and other mitigation activities to ensure this type of wildfire ignition never happens again?	Will Abrams	4/11/2022	4/14/2022	4/14/2022	1	4.6	Miscellaneous	5.4B Corrective Actions
192	Will Abrams	Set 02	WillAbrams-Set 02	1	WillAbrams-Set 02_1	Q: (a) How has PG&E mitigated this to ensure that isolators are secured throughout their infrastructure and not swinging and causing sparks and catastrophic wildfires? (b) Has PG&E made efforts to mitigate the swinging of vertical insulator strings now that this has been identified as a cause of catastrophic wildfire? (c) What has PG&E changed in terms of their inspections and other mitigation activities to ensure this type of wildfire ignition never happens again?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.5	Grid Design and System Hardening	Crossarm Maintenance, Repair, and Replacement
193	Will Abrams	Set 02	WillAbrams-Set 02	2	WillAbrams-Set 02_2	Q: How has PG&E mitigated these microclimate/wind effects by placing wind sensors at different elevations to pick up on these variations that contributed to Kincaid Fire ignitions? Are wind sensors now placed closer to these towers to pick up these types of variations?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.2.1.3	Situational Awareness and Forecasting	Weather Stations
194	Will Abrams	Set 02	WillAbrams-Set 02	3	WillAbrams-Set 02_3	Q: Has PG&E identified how they have mitigated these issues associated with line terminations? How does PG&E now ensure line terminations are secured and not causing similar fires?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	1	7.3.3.12.3	Grid Design and System Hardening	Maintenance, Transmission
195	Will Abrams	Set 02	WillAbrams-Set 02	4	WillAbrams-Set 02_4	Q: What mitigation has PG&E done to ensure old "spaghetti" wires like those indicated are not left dangling and causing fire risk across their infrastructure?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
196	Will Abrams	Set 02	WillAbrams-Set 02	5	WillAbrams-Set 02_5	Q: What operational practices and QA has PG&E incorporated into their risk mitigation to ensure old wires are not left abandoned on the ground around infrastructure?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
197	Will Abrams	Set 02	WillAbrams-Set 02	6	WillAbrams-Set 02_6	Q: How has PG&E modified their vegetation management practices to accommodate slope as a factor that could lead to fire spread from their infrastructure? If a pole, tower or line segment is situated on a similar "upslope" how is PG&E mitigating the increased fire risk?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.5.5	Vegetation Management (VM) and Inspections	Fuel Management and Management of All Wood and "Slash" From Vegetation Management Activities
198	Will Abrams	Set 02	WillAbrams-Set 02	7	WillAbrams-Set 02_7	Q: Given these findings and the increased fire risk on "south-facing slopes", has PG&E modified their vegetation management practices to ensure this type of topography is treated differently or more regularly given the lower moisture content?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.2.1.2	Situational Awareness and Forecasting	Fuel Moisture Sampling and Modeling [could also go to VM?]
199	Will Abrams	Set 02	WillAbrams-Set 02	8	WillAbrams-Set 02_8	Q: It is clear that the rust and neglect of the line caused a "shower of sparks." What has PG&E done to mitigate rust and corrosion on infrastructure that causes this shower effect with multiple ignition sources?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
200	Will Abrams	Set 02	WillAbrams-Set 02	9	WillAbrams-Set 02_9	Q: Given this evidence that ember cast from transmission towers are "going to die", what has PG&E done to alter their vegetation management practices around transmission towers? Where is this within their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.5.5	Vegetation Management (VM) and Inspections	Fuel Management and Management of All Wood and "Slash" From Vegetation Management Activities
201	Will Abrams	Set 02	WillAbrams-Set 02	10	WillAbrams-Set 02_10	Q: What additional risk mitigation practices has PG&E implemented to ensure that jumpers are secured and not left "dangling" and susceptible to wind? Are rigid jumpers now more often used? What added inspection criteria have been added so this never leads to another catastrophic fire again?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.5	Grid Design and System Hardening	Crossarm Maintenance, Repair, and Replacement
202	Will Abrams	Set 02	WillAbrams-Set 02	11	WillAbrams-Set 02_11	Q: How has PG&E mitigated these wildfire risks to ensure cooling towers are properly decommissioned or moth balled in response to these failures?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
203	Will Abrams	Set 02	WillAbrams-Set 02	12	WillAbrams-Set 02_12	Q: Given this "primary concern," what added risk mitigation practices has PG&E implemented to address power plant vegetation management and metal recycling procedures?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.5.5	Vegetation Management (VM) and Inspections	Fuel Management and Management of All Wood and "Slash" From Vegetation Management Activities
204	Will Abrams	Set 02	WillAbrams-Set 02	13	WillAbrams-Set 02_13	Q: What risk mitigation has PG&E done to ensure decommissioned or moth balled lines are not energized and connected to power plants? How have inspection practices changed to ensure these failures are not repeated?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
205	Will Abrams	Set 02	WillAbrams-Set 02	14	WillAbrams-Set 02_14	Q: Given that this "low cycle fatigue" was identified as a primary cause of the Kincaid Fire, has PG&E reflected and corrected that issue within their WMP? Is added testing performed and/or different quality assurance checks to mitigate these risks?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	N/A	N/A	N/A
206	Will Abrams	Set 02	WillAbrams-Set 02	15	WillAbrams-Set 02_15	Q: Given these failures to deal with abandoned infrastructure, how has PG&E identified the added mitigation activities since the Kincaid Fire? How does PG&E now treat "abandoned" infrastructure differently within their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.17.2	Grid Design and System Hardening	System Hardening - Transmission
207	Will Abrams	Set 02	WillAbrams-Set 02	16	WillAbrams-Set 02_16	Q: What has PG&E done to ensure security fencing around their infrastructure is inspected and maintained given these findings? How does PG&E mitigate the security dangers of poorly maintained fencing?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
208	Will Abrams	Set 02	WillAbrams-Set 02	17	WillAbrams-Set 02_17	Q: What has PG&E done to mitigate the risks of misconfigured jumpers? Does PG&E now cut these within the manufacturing facility to ensure proper length and configuration?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.5	Grid Design and System Hardening	Crossarm Maintenance, Repair, and Replacement
209	Will Abrams	Set 02	WillAbrams-Set 02	18	WillAbrams-Set 02_18	Q: What has PG&E done to mitigate these risks and ensure that wires are secured and inspected within the shoe and do not come loose to cause future catastrophic wildfires?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.12	Asset Management and Inspections	Patrol inspections of transmission electric lines and equipment
210	Will Abrams	Set 02	WillAbrams-Set 02	19	WillAbrams-Set 02_19	Q: Given that the Saw Mill Fire pointed to the same or very similar infrastructure failures and mismanagement patterns as the Kincaid Fire has PG&E finally included mitigation activities for these issues within their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.17.2	Grid Design and System Hardening	System Hardening - Transmission
211	Will Abrams	Set 02	WillAbrams-Set 02	20	WillAbrams-Set 02_20	Q: Given that wind readings were different on the surface vs. up on poles and towers and these differences contributed to the miscalculations and causes of both the Sawmill and Kincaid Fires, has PG&E accounted for different wind sensor placement of wind (ground-level vs. high up on tower) within their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.2.1.3	Situational Awareness and Forecasting	Weather Stations
212	Will Abrams	Set 02	WillAbrams-Set 02	21	WillAbrams-Set 02_21	Q: Given all these similar causes (loose wires, low-cycle fatigue, wind conditions, etc.) between the Sawmill Fire and the Kincaid Fire why did PG&E still not mitigate these causes and include those mitigation tactics within their WMP? Given this failure pattern, why did PG&E state over and over again that the Kincaid Fire was a "black swan"? Why did Bill Johnson, CEO dismissively state that "sometimes things just break" in reference to the Kincaid Fire given this pattern and the clear failure of PG&E policies and practices?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.17.2	Grid Design and System Hardening	System Hardening - Transmission
213	Will Abrams	Set 02	WillAbrams-Set 02	22	WillAbrams-Set 02_22	Q: When outside oversight agencies provide direction like "make sure those wires are secured" how does PG&E now make sure those instructions are documented and addressed? Where are these issues addressed in the PG&E WMP given that staff repeatedly did not heed these instructions?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.12	Asset Management and Inspections	Patrol inspections of transmission electric lines and equipment
214	Will Abrams	Set 02	WillAbrams-Set 02	23	WillAbrams-Set 02_23	Q: How has PG&E modified their inspection practices and noted those changes within their WMP given that these inspections did not successfully catch the many failures in configuration and maintenance practices that caused the Kincaid Fire?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.10	Asset Management and Inspections	Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations
215	Will Abrams	Set 02	WillAbrams-Set 02	24	WillAbrams-Set 02_24	Q: How has PG&E improved their policies and wildfire mitigation practices to more closely work with partners like CalFire to ensure access and maintenance issues do not impact safe operations of PG&E equipment?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
216	Will Abrams	Set 02	WillAbrams-Set 02	25	WillAbrams-Set 02_25	Q: Given the ambiguity of "N/A" meaning "not present" has PG&E revised their inspection forms to have less ambiguous and more accurate infrastructure evaluation and risk scoring? Are any changes reflected within their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
217	Will Abrams	Set 02	WillAbrams-Set 02	26	WillAbrams-Set 02_26	Q: How has PG&E mitigated these risks to ensure "spewing steam" from cooling towers doesn't cause arcing as was identified as a "constant source of entertainment"? Where in the PG&E WMP does it reference changed mitigation practices due to this new information?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission

218	Will Abrams	Set 02	WillAbrams-Set 02	27	WillAbrams-Set 02_27	Q: Is this practice of "covering the insulators with silicone grease" the approved mitigation tactic of PG&E? If so, how is that reflected in their WMP and if not how has this poor maintenance practice been corrected?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
219	Will Abrams	Set 02	WillAbrams-Set 02	28	WillAbrams-Set 02_28	Q: Is this practice of waiting till there is a "solid line of arcing" a prudent wildfire mitigation practice during the nighttime when moisture content causes frequent arcing? If so, where is this referenced in the PG&E WMP? If not, how has PG&E corrected this flawed practice?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	1	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
220	Will Abrams	Set 02	WillAbrams-Set 02	29	WillAbrams-Set 02_29	Q: Is PG&E comfortable with this haphazard alerting practice or does a more standardized alerting alert need to be ingrained within their WMP and associated operations?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
221	Will Abrams	Set 02	WillAbrams-Set 02	30	WillAbrams-Set 02_30	Q: Is PG&E still injecting iron into cooling systems? If so, how is PG&E mitigating these "higher level" contamination risks and wildfire risks? How is this reflected within their WMP given that is a cause or a contributor of catastrophic wildfires?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
222	Will Abrams	Set 02	WillAbrams-Set 02	31	WillAbrams-Set 02_31	Q: Given that extreme conscientiousness is associated with towers close to power plants, how has PG&E mitigated risks specific to these towers? What WMP standards have been created to mitigate these risks?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3 (and possible 1.1 Verification, Group B section 1)	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
223	Will Abrams	Set 02	WillAbrams-Set 02	32	WillAbrams-Set 02_32	Q: Are these "Scotch-Brite and 'helwash" practices still employed for cleaning insulators? Has this been standardized or do crew supervisors still have discretion when to wash creepers? What WMP practices have standardized these practices given the known wildfire risks?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	2	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
224	Will Abrams	Set 02	WillAbrams-Set 02	33	WillAbrams-Set 02_33	Q: Has PG&E standardized around polymer insulators as part of their wildfire mitigation activities? What percentage of PG&E insulators are still the old ceramic type? Why is this not mentioned within the WMP when it was a leading cause or contributing factor of catastrophic wildfires?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
225	Will Abrams	Set 02	WillAbrams-Set 02	34	WillAbrams-Set 02_34	Q: Has PG&E standardized to 2 year lifecycle for changing insulators? Has PG&E set standards in their WMP for insulator inspections to determine replacement given the risk of wildfire ignitions?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.4.3	Asset Management and Inspections	Improvement of Inspections
226	Will Abrams	Set 02	WillAbrams-Set 02	35	WillAbrams-Set 02_35	Q: Do line crew supervisors still have the authority to "mothball" infrastructure with direction from outside sources? How has PG&E implemented corrective actions given the wildfire risks associated with how infrastructure is decommissioned or mothballed?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Other corrective action, Maintenance, Transmission
227	Will Abrams	Set 02	WillAbrams-Set 02	36	WillAbrams-Set 02_36	Q: Why isn't decommissioning infrastructure requiring an engineering consult? Given the evident wildfire risk has PG&E required engineering consults and direction on a going forward basis as part of their WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Maintenance, Transmission
228	Will Abrams	Set 02	WillAbrams-Set 02	37	WillAbrams-Set 02_37	Q: Given that this motion of the insulator string caused or contributed to the Kincaid Fire has PG&E now measured these movements and identified wildfire mitigation practices and quality controls to remedy?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Maintenance, Transmission
229	Will Abrams	Set 02	WillAbrams-Set 02	38	WillAbrams-Set 02_38	Q: Is engineering design now required for these types of mothballing practices? Why is this not reflected within the WMP given the wildfire risk?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Maintenance, Transmission
230	Will Abrams	Set 02	WillAbrams-Set 02	39	WillAbrams-Set 02_39	Q: Given the subsequent catastrophic fire, does PG&E now require an "engineering reference" for this type of line configuration work? Why are these standards not set in the WMP?	Will Abrams	4/13/2022	4/25/2022	4/25/2022	0	7.3.3.12.3	Grid Design and System Hardening	Maintenance, Transmission
231	OEIS	Set 10	OEIS-PG&E-22-010	1	OEIS-PG&E-22-010_1	In the Section 8.2.3.7 PG&E describes its use of the risk vs. benefit tool in four events in 2021 to support the evaluation of the potential public safety risk due to a PSPS event against the forecasted potential wildfire risk. a. To date, did PG&E use the risk-benefit tool for determining to initiate any events that did not result in a PSPS event?	Kevin Miller	4/15/2022	4/20/2022	4/20/2022	0	8.2.3.7	PSPS	PSPS Risk-Benefit Tool
232	OEIS	Set 10	OEIS-PG&E-22-010	2	OEIS-PG&E-22-010_2	Regarding PG&E's attachment CONFIDENTIAL_PGE_2022-WMP_Section_46_Remedied_2114_Arch01_CONF to the 2022 WMP Update: a. Concerning the project type "Community Wildfire Safety Program for projects aimed for 2022-2023": i. Describe this project type, including where more information about this project type is described within the 2022 WMP (or previous WMPs, if applicable). ii. How were the projects that fall under this project type selected and prioritized? iii. How does this project type overlap and/or align with risk model output? iv. Provide a percentage of projects under OWSP that align with the top 20% risk score output from the 2021 Wildfire Distribution Risk Model b. How does this project type differ from the following: Top 20% MAVF CPZ, Top 250 miles, and Top 50 Miles? Currently, this data is showing around 0.82 miles planned for undergrounding in 2022. i. Is this still accurate? ii. If not, provide the updated mileage. iii. If so, when does PG&E intend to select locations for additional undergrounding miles? iv. If locations are not currently selected, how is PG&E planning on expediting undergrounding for completion in 2024? v. Are the locations for grid hardening, as a whole, selected for 2024 (i.e., know the hardening location, but don't know the hardening initiative that will be used, UG vs. CH)? vi. If so, is it possible to provide an amended response including these projects?	Kevin Miller	4/15/2022	4/20/2022	4/20/2022	0	4.6	Grid Design and System Hardening	System Hardening
233	OEIS	Set 10	OEIS-PG&E-22-010	3	OEIS-PG&E-22-010_3	On page 870, PG&E indicates potential reductions in PSPS event size in 2022 are expected to come from planned mitigations and "PG&E is currently still in the process of finalizing locations for certain 2022 mitigations but anticipates the following mitigations to come online in 2022. These include: - Distribution Sectionalizing Devices - Transmission Sectionalizing Devices - Temporary Distribution Microgrids - Distribution System Hardening - Fixed Power Solutions (FPS) In a footnote on the same page, PG&E indicates "Some mitigation programs require more than a year of lead time to execute. As a result, some of the mitigations expected to be available in 2022 were identified using earlier data, including the 2020 lookback." This would seem to indicate at least some selections would have had to have been made previously. a. When does PG&E plan to have these remaining locations finalized? b. Please provide currently available locations for those which have been finalized as a GIS file (.gdb)? c. How will it determine locations are in the highest risk areas for PSPS? d. For each of the above-listed mitigations, please provide a percentage of projects that align with top risk, defined as: i. The top 20% risk score output from the 2021 Wildfire Distribution Risk Model ii. PSPS Impacted Locations iii. Locations where risk has materialized iv. PSS Identified Locations.	Kevin Miller	4/15/2022	4/20/2022	4/20/2022	1	8.1.4	PSPS	Future Plans
234	OEIS	Set 11	OEIS-PG&E-22-011	1	OEIS-PG&E-22-011_1	In response to OEIS-PG&E-22-007 Question 16, PG&E states that it "utilized the decision tree presented in 2021 for the 2022 scope of work." a. Is this in reference to the decision-tree provided in response to PG&E-Remedy-21-14 as part of the 2021 WMP Progress Report? b. How and where does PG&E's risk modeling output inform decision-making in relation to the decision-tree discussed in part (a)? c. When was this decision-making process first implemented? d. How does this align and/or differ with the system hardening decision-making methodology presented on May 21, 2021, to the Wildfire Safety Division (titled PG&E's System Hardening Program)? e. What changes to PG&E's decision-making have been made since the May 21, 2021, presentation to the Wildfire Safety Division? In Table 5.3.1(A) of PG&E's 2022 WMP Update PG&E shows a decrease in targets for implementing sectionalizing devices both at the distribution and transmission levels. For distribution, PG&E's targets decreased from 250 in 2021 to 100 in 2022. For transmission, PG&E's targets decreased from 29 in 2021 to 10 in 2022. For transmission, PG&E's targets decreased from 29 in 2021 to 10 in 2022. a. Please explain how PG&E has determined 1300 weather stations as its long-term goal for weather stations density. b. Regarding information in PG&E's third email to its 2022 WMP Update, provided April 25, 2022: a. PG&E has modified its pole clearing program target to inspect and clear (where clearance is needed) all poles identified in PG&E's VM Database, as of October 1, 2021. Regarding PG&E's implementation of EPSS? a. How many customer complaints has PG&E received regarding EPSS since implementation in June 2021? Provide a breakdown of number by month. b. What lessons learned has PG&E implemented as a result of EPSS-related complaints?	Kevin Miller	4/22/2022	4/27/2022	4/27/2022	1	7.3.3	Grid Design and System Hardening	Additional Detail
235	OEIS	Set 11	OEIS-PG&E-22-011	2	OEIS-PG&E-22-011_2	In Table 5.3.1(A) of PG&E's 2022 WMP Update PG&E shows a decrease in targets for implementing sectionalizing devices both at the distribution and transmission levels. For distribution, PG&E's targets decreased from 250 in 2021 to 100 in 2022. For transmission, PG&E's targets decreased from 29 in 2021 to 10 in 2022. a. Please explain how PG&E has determined 1300 weather stations as its long-term goal for weather stations density. b. Regarding information in PG&E's third email to its 2022 WMP Update, provided April 25, 2022: a. PG&E has modified its pole clearing program target to inspect and clear (where clearance is needed) all poles identified in PG&E's VM Database, as of October 1, 2021. Regarding PG&E's implementation of EPSS? a. How many customer complaints has PG&E received regarding EPSS since implementation in June 2021? Provide a breakdown of number by month. b. What lessons learned has PG&E implemented as a result of EPSS-related complaints?	Kevin Miller	4/22/2022	4/27/2022	4/27/2022	0	7.3.3.8.1 7.3.3.8.2	Grid Design and System Hardening	Distribution & Transmission Line Sectionalizing
236	OEIS	Set 11	OEIS-PG&E-22-011	3	OEIS-PG&E-22-011_3	a. Please explain how PG&E has determined 1300 weather stations as its long-term goal for weather stations density. b. Regarding information in PG&E's third email to its 2022 WMP Update, provided April 25, 2022: a. PG&E has modified its pole clearing program target to inspect and clear (where clearance is needed) all poles identified in PG&E's VM Database, as of October 1, 2021. Regarding PG&E's implementation of EPSS? a. How many customer complaints has PG&E received regarding EPSS since implementation in June 2021? Provide a breakdown of number by month. b. What lessons learned has PG&E implemented as a result of EPSS-related complaints?	Kevin Miller	4/22/2022	4/29/2022	4/29/2022	1	7.3.2.1.3	Situational Awareness and Forecasting	Weather monitoring
237	OEIS	Set 12	OEIS-PG&E-22-012	1	OEIS-PG&E-22-012_1	a. PG&E has modified its pole clearing program target to inspect and clear (where clearance is needed) all poles identified in PG&E's VM Database, as of October 1, 2021. Regarding PG&E's implementation of EPSS? a. How many customer complaints has PG&E received regarding EPSS since implementation in June 2021? Provide a breakdown of number by month. b. What lessons learned has PG&E implemented as a result of EPSS-related complaints?	Kevin Miller	4/29/2022	5/4/2022	5/4/2022	0	7.3.5.2	Deliberate Inspections and Management Practices for Vegetation	Pole Clearing
238	OEIS	Set 12	OEIS-PG&E-22-012	2	OEIS-PG&E-22-012_2	a. PG&E has modified its pole clearing program target to inspect and clear (where clearance is needed) all poles identified in PG&E's VM Database, as of October 1, 2021. Regarding PG&E's implementation of EPSS? a. How many customer complaints has PG&E received regarding EPSS since implementation in June 2021? Provide a breakdown of number by month. b. What lessons learned has PG&E implemented as a result of EPSS-related complaints?	Kevin Miller	4/29/2022	5/4/2022	5/4/2022	0	7.3.6.8	Grid Operations and Protocols	EPSS
239	OEIS	Set 12	OEIS-PG&E-22-012	3	OEIS-PG&E-22-012_3	Regarding Table 7.2 of PG&E's 2022 WMP Update: a. Why does PG&E project an overall increase in ignitions from 2022 to 2023? b. Why does PG&E project a slight increase in overall ignitions for Tier 2 from 2022 to 2023? On page 697, under "Short-term improvements (2023-2026)", PG&E lists the vegetation management programs which will use the One VM Tool. Energy Safety acknowledges it defined "Future improvements to initiative" as "the next 5 years," i.e., 2022-2028 2022 Guidelines, Attachment 2, page 74). Energy Safety also notes that the One VM Tool will be used for vegetation management on page 915 under "Preparation for Re-Energization." PG&E lists the restoration team's activities leading up to re-energization, including "Determine if any Customer Owned Lines listed as being at risk are within the event footprint (both transmission and distribution) as detailed in Section 7.3.6.4. These are then input into the dynamic re-energization system to produce a prioritized list of circuits to be re-energized." April 29, 2022, PG&E has modified the number of circuits from 988 to 1,018 and introduced language to indicate that the May 1st and August 1st target dates measure the number of line devices loaded with engineered settings and isolated performance to priority.	Kevin Miller	4/29/2022	5/4/2022	5/4/2022	0	6.7	Performance Metrics and Underlying Data	Recent and Projected Drivers of Ignition Probability
240	OEIS	Set 12	OEIS-PG&E-22-012	4	OEIS-PG&E-22-012_4	Regarding Table 7.2 of PG&E's 2022 WMP Update: a. Why does PG&E project an overall increase in ignitions from 2022 to 2023? b. Why does PG&E project a slight increase in overall ignitions for Tier 2 from 2022 to 2023? On page 697, under "Short-term improvements (2023-2026)", PG&E lists the vegetation management programs which will use the One VM Tool. Energy Safety acknowledges it defined "Future improvements to initiative" as "the next 5 years," i.e., 2022-2028 2022 Guidelines, Attachment 2, page 74). Energy Safety also notes that the One VM Tool will be used for vegetation management on page 915 under "Preparation for Re-Energization." PG&E lists the restoration team's activities leading up to re-energization, including "Determine if any Customer Owned Lines listed as being at risk are within the event footprint (both transmission and distribution) as detailed in Section 7.3.6.4. These are then input into the dynamic re-energization system to produce a prioritized list of circuits to be re-energized." April 29, 2022, PG&E has modified the number of circuits from 988 to 1,018 and introduced language to indicate that the May 1st and August 1st target dates measure the number of line devices loaded with engineered settings and isolated performance to priority.	Kevin Miller	4/29/2022	5/4/2022	5/4/2022	0	7.3.5.19	Vegetation Management (VM) and Inspections	Vegetation Management Enterprise System
241	OEIS	Set 12	OEIS-PG&E-22-012	5	OEIS-PG&E-22-012_5	Regarding Table 7.2 of PG&E's 2022 WMP Update: a. Why does PG&E project an overall increase in ignitions from 2022 to 2023? b. Why does PG&E project a slight increase in overall ignitions for Tier 2 from 2022 to 2023? On page 697, under "Short-term improvements (2023-2026)", PG&E lists the vegetation management programs which will use the One VM Tool. Energy Safety acknowledges it defined "Future improvements to initiative" as "the next 5 years," i.e., 2022-2028 2022 Guidelines, Attachment 2, page 74). Energy Safety also notes that the One VM Tool will be used for vegetation management on page 915 under "Preparation for Re-Energization." PG&E lists the restoration team's activities leading up to re-energization, including "Determine if any Customer Owned Lines listed as being at risk are within the event footprint (both transmission and distribution) as detailed in Section 7.3.6.4. These are then input into the dynamic re-energization system to produce a prioritized list of circuits to be re-energized." April 29, 2022, PG&E has modified the number of circuits from 988 to 1,018 and introduced language to indicate that the May 1st and August 1st target dates measure the number of line devices loaded with engineered settings and isolated performance to priority.	Kevin Miller	4/29/2022	5/4/2022	5/4/2022	0	8.2.4	Protocols on PSPS	Re-Energization Strategy
242	OEIS	Set 13	OEIS-PG&E-22-013	1	OEIS-PG&E-22-013_1	Regarding information in its fourth email response to its 2022 WMP Update, provided April 29, 2022, PG&E has modified the number of circuits from 988 to 1,018 and introduced language to indicate that the May 1st and August 1st target dates measure the number of line devices loaded with engineered settings and isolated performance to priority.	Kevin Miller	5/8/2022	5/11/2022	5/11/2022	0	7.3.6.8	Grid Operations and Protocols	Protective Equipment and Device Settings

243	OEIS	Set 14	OEIS-PG&E-22-014	1	OEIS-PG&E-22-014_1	The Wildfire Distribution Risk Model (WDRM) is undergoing third-party review to check for validation. PG&E previously conveyed that the WDRM v2 Validation Report would be published April 29, 2022. Energy Safety requests a copy of this report as soon as it is available.	Kevin Miller	5/13/2022	5/18/2022	5/18/2022	0	4.5	Model and Metric Calculation Methodologies	Wildfire Distribution Risk Model
244	OEIS	Set 14	OEIS-PG&E-22-014	2	OEIS-PG&E-22-014_2	a. How many employees were changed in the personnel costs related to WMP between 2021 and 2022. b. To which departments or programs would these positions be allocated? c. Provide a breakdown of personnel changes. d. Does PG&E have a plan and resources to hire 100 employees for North Counties and another 100 for Mono County for WMP implementation? e. To which departments or programs would these positions be allocated? f. Provide a breakdown of personnel changes. g. Does PG&E have a plan and resources to hire 100 employees for North Counties and another 100 for Mono County for WMP implementation? h. To which departments or programs would these positions be allocated? i. Provide a breakdown of personnel changes. j. Does PG&E have a plan and resources to hire 100 employees for North Counties and another 100 for Mono County for WMP implementation? k. To which departments or programs would these positions be allocated? l. Provide a breakdown of personnel changes.	Kevin Miller	5/13/2022	5/18/2022	5/18/2022	0	3.1	Actuals and Planned Spending for Mitigation Plan	Summary of WMP initiative expenditures
245	OEIS	Set 14	OEIS-PG&E-22-014	3	OEIS-PG&E-22-014_3	a. Does PG&E have a plan and resources to hire 100 employees for North Counties and another 100 for Mono County for WMP implementation? b. To which departments or programs would these positions be allocated? c. Provide a breakdown of personnel changes. d. Does PG&E have a plan and resources to hire 100 employees for North Counties and another 100 for Mono County for WMP implementation? e. To which departments or programs would these positions be allocated? f. Provide a breakdown of personnel changes.	Kevin Miller	5/13/2022	5/18/2022	5/18/2022	0	N/A	N/A	N/A
246	OEIS	Set 14	OEIS-PG&E-22-014	4	OEIS-PG&E-22-014_4	a. Provide how many total Public Safety Specialist (PSS) Program positions have been filled for the following years and the counties they were assigned to. b. 2021 c. 2022	Kevin Miller	5/13/2022	5/18/2022	5/18/2022	4	7.3.9	Emergency Planning and Preparedness	Additional Detail
247	OEIS	Set 14	OEIS-PG&E-22-014	5	OEIS-PG&E-22-014_5	a. Discussion of its EPSS Initiative 7.3.3.8 Protective Equipment and Device Settings (pp. 730-739) SCADA is not mentioned. b. How many EPSS devices are currently SCADA-enabled? c. What are the SCADA addresses for the devices? d. Provide a list of SCADA addresses for the devices.	Kevin Miller	5/13/2022	5/18/2022	5/18/2022	1	7.3.8	Grid Operations and Protocols	Protective equipment and device settings
248	OEIS	Set 14	OEIS-PG&E-22-014	6	OEIS-PG&E-22-014_6	Regarding PG&E's work orders: a. How many work orders within the HFTD in the past three years have decreased in priority levels? What percentage of total work orders within the HFTD in the past three years does this account for? b. How many work orders within the HFTD in the past three years have increased in priority levels? What percentage of total work orders within the HFTD in the past three years does this account for? c. Provide a breakdown of all work orders discussed in parts a and b above.	Kevin Miller	5/13/2022	5/18/2022	5/19/2022	1	7.3.4	Asset Management and Inspections	Additional Detail
249	CalPA	Set WMP-21	CalAdvocates-PGE-2022WMP-21	1	CalAdvocate s-PGE-2022WMP-21_1	With regard to PG&E's undergrounding efforts in the HFTD for wildfire mitigation purposes: a) Describe PG&E's current policy regarding undergrounding of existing service connections when the main lines are moved underground. b) Describe PG&E's current policy regarding the installation of new service connections underground when new main lines are installed underground (e.g. in a fire rebuild project or in new construction). c) Please provide a list of situations in which PG&E would underground the main line, but install or leave the service connection aboveground. d) For each situation in part (c), please explain the factors that would contribute to PG&E's decision not to underground the service connections.	Holly Wherman Carolyn Chen	5/31/2022	6/17/2022	6/15/2022	0	7.3.3.16	Undergrounding of Electric Lines and/or Equipment	Additional Detail
250	CalPA	Set WMP-21	CalAdvocates-PGE-2022WMP-21	2	CalAdvocate s-PGE-2022WMP-21_2	What is the average actual cost of installing service connections underground? Please provide this as a cost per foot (or a range of costs per foot, if variable) and state the time period from which this data is drawn.	Holly Wherman Carolyn Chen	5/31/2022	6/14/2022	6/14/2022	0	7.3.3.16	Undergrounding of Electric Lines and/or Equipment	Additional Detail
251	CalPA	Set WMP-21	CalAdvocates-PGE-2022WMP-21	3	CalAdvocate s-PGE-2022WMP-21_3	Section 7.3.3.16 of PG&E's 2022 WMP discusses PG&E's plan to underground approximately 10,000 distribution circuit miles in HFTDs. a) When PG&E undergrounds a segment of distribution circuit as part of its 10,000 mile undergrounding plan, does it plan to also underground that circuit's associated service connections? b) When PG&E places or plans to place a circuit's associated service connections underground, does PG&E include the length of those service connections in the 10,000 circuit mile forecast? c) Does the forecasted cost of undergrounding the 10,000 circuit miles discussed in your 2022 WMP include costs of undergrounding associated service connections? d) If the answer to part (c) is yes, please provide a cost estimate for the undergrounding of all service connections included as part of the 10,000 circuit	Holly Wherman Carolyn Chen	5/31/2022	6/17/2022	6/15/2022	0	7.3.3.16	Undergrounding of Electric Lines and/or Equipment	Additional Detail
252	CalPA	Set WMP-21	CalAdvocates-PGE-2022WMP-21	4	CalAdvocate s-PGE-2022WMP-21_4	Section 7.3.3.17.6 of PG&E's 2022 WMP discusses PG&E's Butte County Rebuild Program, which involves undergrounding the distribution within the town of Paradise and lower Magalia. a) Does PG&E install service connections underground as part of the Butte County Rebuild Program? b) If the answer to part (a) is yes, please provide the actual to-date costs of undergrounding service connections as part of the Butte County Rebuild Program. c) If the answer to part (a) is yes, please provide the actual to-date linear feet of service connections that have been undergrounded as part of the Butte County Rebuild Program. d) Please provide the approximate percentage of service connections that have been (to date) installed above ground or left above ground as part of the Butte	Holly Wherman Carolyn Chen	5/31/2022	6/14/2022	6/14/2022	0	7.3.3.17.6	Butte County Rebuild Program	Additional Detail
253	OEIS	Set 15	OEIS-P&E-22-015	1	OEIS-P&E-22-015_1	a) Please provide an Excel table with the following information in new columns added to the Excel table PG&E submitted in response to CalAdvocates-PGE-2022WMP-09' Questions 1, 2, and 3: i. Reason for reinspection (if applicable) ii. New due date post-reinspection (if applicable) iii. New prioritization of work order (if it changed) iv. Equipment type b) Also provide a process flow chart illustrating the inspection process or a description of the inspection process from identification of an issue through to reinspection, including the typical timeline. c) Include the length of time between identification to initiation of repair and what triggers initiation of the repair. d) Additionally, identify any interactions with external agencies, including permitting, including the following for each agency: i. Any barriers to completing work orders due to permitting. ii. A list of all work orders that have been initiated but have been delayed due to permitting. iii. A list of all work orders for which repair has not been initiated due to permitting concerns. iv. A list of all work orders dated in the past year that have been marked as urgent for which a permit was required. (1) Provide the amount of time that elapsed from the identification of the issue to when it became urgent. (2) Note whether the repair was initiated prior to it being marked as urgent.	Kevin Miller	6/3/2022	6/15/2022	6/15/2022	6	7.3.4	Asset Management and Inspections	Additional Detail
254	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	1	CalAdvocate s-PGE-2022WMP-22_1	a) On December 9, 2021, was PG&E using the Hel-Saw for wildfire mitigation purposes? b) If the answer to part (a) is yes, please identify the WMP initiative that this activity was part of.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
255	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	2	CalAdvocate s-PGE-2022WMP-22_2	When did PG&E first become aware that the Hel-Saw had operated within Wunderlich County Park on December 9, 2021?	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
256	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	3	CalAdvocate s-PGE-2022WMP-22_3	a) Which public agencies (e.g., CPUC, OEIS, Cal Fire, San Mateo County) did PG&E notify (prior to December 9, 2021) that it planned to operate a Hel-Saw in Wunderlich County Park? b) For each agency in response to part (a), list the date PG&E gave notice to that agency.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
257	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	4	CalAdvocate s-PGE-2022WMP-22_4	a) To which public agencies (e.g., CPUC, OEIS, Cal Fire, San Mateo County) did PG&E report that it had operated a Hel-Saw in Wunderlich County Park on December 9, 2021? b) For each agency in response to part (a), list the date PG&E made its report to that agency. c) Please provide copies of all reports to the agencies in response to part (a).	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
258	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	5	CalAdvocate s-PGE-2022WMP-22_5	The notice states that "PG&E said its Hel-Saw contractor 'mistakenly' strayed several hundred feet into parkland after doing permitted work on nearby private land." a) Who is the Hel-Saw contractor referenced above? b) Please list all Hel-Saw contractors PG&E currently employs. c) Please describe why the Hel-Saw pilot was not aware that the Hel-Saw had passed into county parkland until the Hel-Saw had traveled "several hundred feet into parkland." d) Please describe the specific sequence of events that led to the contractor "mistakenly" straying into Wunderlich County Park. e) Please describe any and all operational failures (including but not limited to violations of Cal Fire policies and standards) that PG&E has identified that	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
259	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	6	CalAdvocate s-PGE-2022WMP-22_6	Please provide copies of the results of any internal audits or investigations that PG&E has performed in relation to the operation of the Hel-Saw in Wunderlich County Park on December 9, 2021.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	2	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
260	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	7	CalAdvocate s-PGE-2022WMP-22_7	a) Describe PG&E's current protocol for keeping members of the public out of an area where the Hel-Saw is operating. b) Describe all precautions that PG&E takes to protect public safety while the Hel-Saw is operating. c) Describe all precautions the Hel-Saw contractor takes to protect public safety while the Hel-Saw is operating. d) Has PG&E changed its procedures or protocols related to Hel-Saw operation since receiving the Cal Fire notice of violation described in the news story? e) If the answer to part (d) is yes, please list all changes made to the procedures or protocols related to Hel-Saw operation since receiving the Cal Fire notice of violation described in the news story. f) Please provide a copy of all PG&E procedures, job aids, or other guidance documentation related to operation of the Hel-Saw.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment

261	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	8	CalAdvocate s-PGE-2022WMP-22_8	a) Does PG&E utilize the Heli-Saw in HFTD areas for the purposes of wildfire mitigation? b) If the answer to part (a) is yes, please list all initiatives from PG&E's 2022 WMP Update in which the Heli-Saw has been utilized to date. c) If the answer to part (a) is yes, please list all initiatives from PG&E's 2022 WMP Update in which it expects to utilize the Heli-Saw in the future. d) If the answer to part (a) is yes, why didn't PG&E mention the Heli-Saw in its 2022 WMP Update?	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
262	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	9	CalAdvocate s-PGE-2022WMP-22_9	Pages 825-826 of PG&E's 2022 WMP Update discuss community outreach about wildfire mitigation activities, including helicopter operations. To set expectations with customers and with the goal of limiting work refusals or access issues, PG&E uses various communication methods, such as letters, postcards, text messages, e-mails, and automated calls through Interactive Voice Recordings. a) For normal Heli-Saw operations, which of these communication methods does PG&E use? b) For normal Heli-Saw operations, how does PG&E determine which customers should be notified? c) For the Heli-Saw operation on December 9, 2021, which of these communication methods did PG&E use? d) For the Heli-Saw operation on December 9, 2021, how did PG&E determine which customers should be notified?	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
263	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	10	CalAdvocate s-PGE-2022WMP-22_10	The news story states, "Sampson estimated that branches of up to eight inches in diameter fell as much as 150 feet to the ground in the park." a) In normal operation of the Heli-Saw, how does PG&E protect the public from heavy branches falling, as described above? b) In normal operation of the Heli-Saw, how does PG&E protect employees and contractors working with the Heli-Saw from heavy branches falling, as described above?	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
264	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	11	CalAdvocate s-PGE-2022WMP-22_11	The news story states, "The operation, according to Sampson, created hundreds of 2-foot to 6-foot-long stubbed limbs that littered the forest floor, that will likely die and create a fire hazard." a) Does PG&E dispute Sampson's statement about the fallen branches from the Heli-Saw operation creating a fire hazard, quoted above? Please explain if yes. b) Has PG&E taken any action to remove the limbs described above from Wunderlich County Park? Please describe all such actions if yes. c) Does PG&E plan to take any action in the future to remove the limbs described above from Wunderlich County Park? Please describe all such actions if yes. d) Describe PG&E's current practices regarding how it deals with fallen limbs from normal Heli-Saw operations.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
265	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	12	CalAdvocate s-PGE-2022WMP-22_12	The news story states, "Because ground crews were on hand before and after the operation at the park, the utility said, there were no safety issues...nor was the public in danger at any time." a) In normal Heli-Saw operations, what are the duties of the ground crews mentioned above? b) How many ground crews are involved in a typical Heli-Saw operation? c) How many people, on average, are in each ground crew for a typical Heli-Saw operation? d) How do Heli-Saw ground crews determine the location of the Heli-Saw relative to the planned flight path? e) How does the Heli-Saw pilot ensure that they follow the planned flight path? f) Please describe why the ground crews on December 9, 2021 were not aware that the Heli-Saw had passed into Wunderlich County Park until the Heli-Saw had traveled "several hundred feet into parkland."	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
266	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	13	CalAdvocate s-PGE-2022WMP-22_13	The news story states that Cal Fire released a notice of violation in February 2022. a) Provide a copy of the notice of violation described above. b) Provide a copy of PG&E's response to the Cal Fire notice of violation described above. c) Provide a copy of any other notices of violation from any government agency related to the usage of the Heli-Saw on December 9, 2021. d) Provide a copy of all of PG&E's response to any notifications of violation from part (c).	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	3	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
267	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	14	CalAdvocate s-PGE-2022WMP-22_14	The news story states, "PG&E says it is conferring with Cal Fire over the Heli-Saw related violation notice as well as the permit dispute." a) What is the current status of discussions between Cal Fire and PG&E, related to the violation, noted above? b) What is the current status of the permit dispute, noted above?	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
268	CalPA	Set WMP-22	CalAdvocates-PGE-2022WMP-22	15	CalAdvocate s-PGE-2022WMP-22_15	a) Is PG&E engaged in any legal or administrative proceedings related to its use of the Heli-Saw in Wunderlich County Park on December 9, 2021? b) If the answer to part (a) is yes, please list all such proceedings and the venue.	Holly Wehrman	6/7/2022	7/5/2022	7/5/2022	0	7.3.5.20	Vegetation Management (VM) and Inspections	Vegetation Management to Achieve Clearances Around Electric Lines and Equipment
270	CalPA	Set WMP-03	CalAdvocates-PGE-2022WMP-03	15Supp	CalAdvocate s-PGE-2022WMP-03_15Supp	Please note that the geographical regions are mutually exclusive (i.e., "Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit, the following relationships should hold: Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles. Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuitmiles. Provide an Excel table of all distributioncircuits existing as of January 1, 2022 (as rows) that includes the following information in separate columns: . . . bbb.Miles of LIDAR inspection in Non-HFTD in 2020cccc.Miles of LIDAR inspection in Non-HFTD in 2021ddddd.Miles of LIDAR inspection Other HFTD in 2020eeee.Miles of LIDAR inspection Other HFTD in 2021ffff.Miles of LIDAR inspection HFTD Tier 2 in 2020gggg.Miles of LIDAR inspection HFTD Tier 2 in 2021hhhh.Miles of LIDAR inspection HFTD Tier 3 in 2020iiii.Miles of LIDAR inspection HFTD Tier 3 in 2021	Alan Wehrman	1/25/2022	7/29/2022			N/A	Miscellaneous	Additional Detail
271	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	1	CalAdvocate s-PGE-2022WMP-23_1	State how many customer accounts PG&E has as of June 29, 2022, and disaggregate the total by HFTD tier (as defined above).	Tyler Holzschuh	6/29/2022	7/14/2022					Wildfire Risk Data
272	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	2	CalAdvocate s-PGE-2022WMP-23_2	Please provide the protective device settings that PG&E plans on using in HFTD areas during high fire-risk weather in 2022, including the following parameters: a) The minimum to trip current; b) Definite time delay; c) Time curve; and d) Coordination parameters.	Tyler Holzschuh	6/29/2022	7/14/2022				EPSS	Device settings
273	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	3	CalAdvocate s-PGE-2022WMP-23_3	If any of the parameters identified in question 2 depend on the normal operating parameters for its protective devices (i.e., device settings such as the minimum to trip during ordinary weather), please describe how PG&E determines those normal operating parameters.	Tyler Holzschuh	6/29/2022	7/14/2022				EPSS	Device settings
274	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	4	CalAdvocate s-PGE-2022WMP-23_4	a) Please state whether PG&E plans (in 2022) to coordinate protective devices with fuses' time overcurrent curves, or plans on operating protective devices in a fuse-saving mode (i.e. the recloser/circuit breaker trips before the fuse operates) while fast curve settings are in effect. b) Please explain the reasoning for PG&E's choice(s) in part (a) of this question.	Tyler Holzschuh	6/29/2022	7/14/2022				EPSS	Device settings
275	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	5	CalAdvocate s-PGE-2022WMP-23_5	Please provide: a) Any studies that show how PG&E determined that the protective device settings identified in question 2 are the best settings to use during high fire-risk weather; and b) Any studies of the expected impact to reliability due to the settings identified in question 2.	Tyler Holzschuh	6/29/2022	7/14/2022		6		EPSS	Device settings
276	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	6	CalAdvocate s-PGE-2022WMP-23_6	Please provide the protective device settings that PG&E normally uses (i.e., outside of HFTD or outside of high fire risk weather) in 2022, including the following parameters: a) The minimum to trip current; b) Definite time delay; c) Time curve; and d) Coordination parameters.	Tyler Holzschuh	6/29/2022	7/14/2022				EPSS	Device settings
277	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	7	CalAdvocate s-PGE-2022WMP-23_7	Please provide the following details regarding fast curve settings that PG&E used in 2021 during high fire-risk weather: a) How PG&E calculates the fault duty of the next downstream recloser, including what type of faults PG&E calculates (e.g. line-to-ground, line-to-line, triple-line-to-ground); b) How PG&E coordinated circuit breakers and main line reclosers with fuses; and c) What the instantaneous tripping currents in 2021 were for the hot-line tag (HLT) settings mode.	Tyler Holzschuh	6/29/2022	7/14/2022				EPSS	Device settings
278	CalPA	Set WMP-23	CalAdvocates-PGE-2022WMP-23	8	CalAdvocate s-PGE-2022WMP-23_8	Please provide an unredacted version of the spreadsheet "WMP-Discovery2022_DR_OEIS_005-Q10AtoH1_CONF.xlsx".	Tyler Holzschuh	6/29/2022	7/14/2022		1		EPSS	EPSS
279	CalPA	Set WMP-24	CalAdvocates-PGE-2022WMP-24	1	CalAdvocate s-PGE-2022WMP-24_1	Regarding transmission structures and transmission connecting hardware ("these facilities"): a) How does PG&E detect defects in these facilities that may be difficult or impossible to detect using the unaided eye (such as a broken jumper within a steel shoe)? b) Does the answer to part (a) of this question differ in HFTD areas, compared to non-HFTD areas? c) If the answer to part (b) is yes, please explain the differences.	Tyler Holzschuh	7/8/2022	7/22/2022					
280	CalPA	Set WMP-24	CalAdvocates-PGE-2022WMP-24	2	CalAdvocate s-PGE-2022WMP-24_2	Regarding transmission structures and transmission connecting hardware in HFTD areas ("these facilities"): a) Does PG&E use x-raysto examine these facilities while in operation? b) If the answer to part (a) is yes, please describe how and where PG&E does this. c) Does PG&E use gamma raysto examine these facilities while in operation? d) If the answer to part (c) is yes, please describe how and where PG&E does this. e) Does PG&E use ultrasonic inspection to examine these facilities while in	Tyler Holzschuh	7/8/2022	7/22/2022					

281	CaPA	Set WMP-24	CalAdvocates-PGE-2022WMP-24	3	CalAdvocate s-PGE-2022WMP-24_3	Regarding transmission structures and transmission connecting hardware in HFTD areas ("these facilities") a) Please provide all current PG&E procedures for using x-rays or gamma rays to examine these facilities. b) Please provide all available studies documenting the feasibility and effectiveness of using x rays and gamma rays to nondestructively examine these facilities. c) If there are any studies documenting the feasibility and effectiveness of using x-rays and gamma rays to nondestructively examine these facilities that you are aware of but do not possess, please identify each such document	Tyler Holtschuh	7/8/2022	7/22/2022							
282	CaPA	Set WMP-24	CalAdvocates-PGE-2022WMP-24	4	CalAdvocate s-PGE-2022WMP-24_4	Regarding transmission structures and transmission connecting hardware in HFTD areas ("these facilities") a) Please provide all current PG&E procedures for nondestructive examination of these facilities, other than using the visible spectrum and any procedures covered in question 3(a). b) Please provide all current PG&E procedures for destructive examination of these facilities	Tyler Holtschuh	7/8/2022	7/22/2022							
283	CaPA	Set WMP-24	CalAdvocates-PGE-2022WMP-24	5	CalAdvocate s-PGE-2022WMP-24_5	Regarding distribution structures and hardware in HFTD areas ("these facilities") a. Please provide all current PG&E procedures for nondestructive examination of these facilities, other than using the visible spectrum. b. Please provide all current PG&E procedures for destructive examination of these facilities	Tyler Holtschuh	7/8/2022	7/22/2022							
284	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	1	CalAdvocate s-PGE-2022WMP-25_1	Page 2 of PG&E's response states regarding the 2017 Railroad Fire, "PG&E tree contractor inadvertently dropped dead Cedar tree that the contractor was working on into a PG&E distribution line," and, "PG&E did not perform a specific lessons learned analysis for the Railroad Fire." a) Why did PG&E not perform a specific lessons learned analysis for the Railroad Fire? b) Following the Railroad Fire on August 29, 2017, through July 1, 2022, has PG&E experienced any other ignitions in its HFTD where an individual performing tree work for PG&E inadvertently dropped a tree into the distribution line? c) If the answer to part (b) is yes, please list the ignitions, including the date of the ignition, geographic latitude of the ignition, geographic longitude of the ignition, and the final size of the fire.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
285	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	2	CalAdvocate s-PGE-2022WMP-25_2	Page 5 of PG&E's response states regarding the 2018 Airline Fire, "We are currently in the process of reviewing our existing maintenance tags for tags that identify missing vibration dampers and are also reviewing our guidance to inspectors so that they properly identify missing vibration dampers during inspections." a) When did PG&E initiate the review of existing maintenance tags referenced above? b) Does the review of existing maintenance tags encompass all open maintenance tags on the electric system or some subset? If the scope is limited to a subset, please describe the scope. c) When does PG&E expect to complete the review of existing maintenance tags referenced above? d) When did PG&E initiate the review of its guidance to inspectors referenced above? e) When does PG&E expect to complete the review of its guidance to inspectors referenced above? f) Has PG&E initiated any review of design standards, engineering practices, or construction practices to ensure that vibration dampers are installed appropriately? g) If the answer to part (f) is yes, please describe the scope and timeline for this review. h) Does PG&E have equipment in service that predates the practice of utilizing vibration dampers? i) If the answer to part (h) is yes, please list all actions PG&E has taken to assess such legacy equipment and mitigate the issue of missing vibration dampers.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
286	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	3	CalAdvocate s-PGE-2022WMP-25_3	Pages 5-6 of PG&E's response regarding the 2018 Airline Fire identify several actions PG&E is undertaking to ensure that the issue of missing vibration dampers is found and remediated. Please list all actions PG&E has undertaken since the Airline Fire ignited on June 4, 2018 to ensure that the issue of missing vibration dampers does not occur in the first place.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	1					
287	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	4	CalAdvocate s-PGE-2022WMP-25_4	Page 8 of PG&E's response states regarding the 2019 Lonsok Fire, "Corrective Action Program (CAP) event assigned to determine ongoing risk from vibration dampers in the field and deployed on #2 ACSR and #4 ACSR conductor wires. Specifically, the team evaluated extent of risk between 2 ACSR and Alcoa Stockbridge dampers." a) Please briefly describe the findings from PG&E's evaluation of the extent of the risk between ACSR and Alcoa Stockbridge dampers, described above. b) Has PG&E determined that utilizing Alcoa Stockbridge dampers presents a wildfire risk? c) If the answer to part (b) is yes, has PG&E initiated an effort to proactively identify and remove or replace Alcoa Stockbridge dampers? d) If the answer to part (c) is no, please explain why not.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	1					
288	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	5	CalAdvocate s-PGE-2022WMP-25_5	Page 12 of PG&E's response states regarding the 2021 Dixie Fire, "We have revised our response time standard to respond to outages in HFTD areas where we can safely do so, within 60 minutes as compared to the prior standard which required a response within 24 hours to a low level outage such as the one experienced on the circuit associated with the Dixie Fire." a) Please define "respond" as used in this context. b) In the event that an outage occurs and a PG&E troubleshooter cannot physically reach the site within 60 minutes due to factors beyond their control, please describe how PG&E would meet its standard to respond to the outage within 60 minutes.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
289	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	6	CalAdvocate s-PGE-2022WMP-25_6	Page 14 of PG&E's response states, "For clarification, the Revision Notice reference to increases in equipment-related ignitions from 2020 to 2021 refers to system-wide ignitions. However, in 2021, PG&E observed a 12.9% decrease in California Public Utilities Commission (CPUC)-reportable ignitions in HFTD areas where the suspected cause was PG&E equipment failure." Page 16 of Energy Safety's Revision Notice includes the following chart, which shows a steady increase in non-HFTD ignitions from 2018 through 2021: (GRAPHIC TABLE) a) Please list all causal factors to which PG&E attributes the increase in equipment-related ignitions from 2018 to 2021 in non-HFTD. b) Please list and briefly describe all actions PG&E is taking in 2022 to reduce the number of equipment-related ignitions in non-HFTD.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
290	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	7	CalAdvocate s-PGE-2022WMP-25_7	Page 20 of PG&E's response describes its Enhanced Ignition Analysis (EIA) program. a) Does the EIA process apply to non-HFTD ignitions? b) If the answer to part (a) is no, please explain why not.	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
291	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	8	CalAdvocate s-PGE-2022WMP-25_8	Pages 33-35 of PG&E's response include Table RN-PG&E-22-08-01: Timeline and Update on Actions To Increase Asset Inspection Quality. Please provide an updated copy of this Table with the following additional information in the "Timeline for Implementation" column: a) Date the action was initiated. b) Date the action was completed (if applicable).	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
291	CaPA	Set WMP-25	CalAdvocates-PGE-2022WMP-25	9	CalAdvocate s-PGE-2022WMP-25_9	Pages 37 of PG&E's response states, "Confirmed incidents of fraudulent activity (timecards, inspections) will result in discipline and up to termination." a) From January 1, 2021, through July 1, 2022, how many incidents of fraudulent activity has PG&E recorded? b) Of the incidents in part (a), how many involved fraud in relation to asset inspections? c) Of the incidents in part (b), how many inspectors have been terminated as of July 1, 2022?	Holly Wehman	7/8/2022	7/13/2022	7/13/2022	0					
Pre-Discove ry 01	CaPA	Set WMP-02	CalAdvocates-PGE-2022WMP-02	1	CalAdvocate s-PGE-2022WMP-02_1	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2021 and that examined any programs, initiatives, or strategies described in your 2021 WMP Update.	Alan Wehman	12/17/2021	1/18/2022	1/18/2022	17	7.3.4	Asset Management and Inspections	QA/QC Reports		
Pre-Discove ry 02	CaPA	Set WMP-02	CalAdvocates-PGE-2022WMP-02	2	CalAdvocate s-PGE-2022WMP-02_2	Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by external entities that were completed since January 1, 2021 and that examined any programs, initiatives, or strategies described in your 2021 WMP Update. External entities include, but are not limited to, contractors, auditors, the Federal Monitor, and Independent Reviewers.	Alan Wehman	12/17/2021	1/18/2022	1/18/2022	27	7.3.4	Asset Management and Inspections	QA/QC Reports		
Pre-Discove ry 03	CaPA	Set WMP-02	CalAdvocates-PGE-2022WMP-02	3	CalAdvocate s-PGE-2022WMP-02_3	Provide an Excel table of all defects in the year 2021 found by Energy Safety's Compliance Branch (or, previously, the CPUC's Wildfire Safety Division) (as rows) that includes the following information in separate columns: a) Associated circuit name b) Defect type c) Description of defect d) WMP initiative associated with defect e) Date that the defect was identified f) Date that the defect was corrected g) Priority level of correction h) Location of defect Please note that the geographical reports are mutually exclusive (i.e., Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit-segment, the following relationships should hold: * Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles. * Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuit-segment miles. Provide an Excel table of all distribution circuit-segments existing as of January 1, 2022.	Alan Wehman	12/17/2021	1/18/2022	1/18/2022	1	N/A	Miscellaneous	Additional Detail		
Pre-Discove ry 04	CaPA	Set WMP-03	CalAdvocates-PGE-2022WMP-03	1	CalAdvocate s-PGE-2022WMP-03_1	Supplemental for Q2	Alan Wehman	12/17/2021	2/8/2022	2/10/2022	1	N/A	Miscellaneous	Additional Detail		
Pre-Discove ry 05	CaPA	Set WMP-03	CalAdvocates-PGE-2022WMP-03	25	CalAdvocate s-PGE-2022WMP-03_25SUPP	Provide an Excel table of all transmission circuit-segments existing as of January 1, 2022 (as rows) that includes the same information listed above in Question 1.	Alan Wehman	12/17/2021	2/15/2022	2/15/2022	1	N/A	Miscellaneous	Additional Detail		

Pre-Discove ry 05	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_2	2	CalAdvocate s-PGE- 2022WMP- 03_2	Provide an Excel table of all transmission circuit-segments existing as of January 1, 2022 (as rows) that includes the same information listed above in Question 1.	Alan Wehman	12/17/2021	2/8/2022	2/10/2022	1		N/A	Miscellaneous	Additional Detail
Pre-Discove ry 06	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_3	3	CalAdvocate s-PGE- 2022WMP- 03_3	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) Provide the median amount of person-hours to perform a single climbing inspection of a transmission tower in 2021. b) Provide the total number of transmission towers that PG&E performed climbing inspections on in 2021.	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 07	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_4	4	CalAdvocate s-PGE- 2022WMP- 03_4	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) Provide the median amount of person-hours to perform a single drone inspection of a transmission tower in 2021. b) Provide the total number of transmission towers that PG&E performed drone inspections on in 2021.	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 08	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_5	5	CalAdvocate s-PGE- 2022WMP- 03_5	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) Provide the median amount of person-hours to perform a single detailed ground inspection of a transmission tower in 2021. b) Provide the total number of transmission towers that PG&E performed detailed ground inspections on in 2021.	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 09	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_6	6	CalAdvocate s-PGE- 2022WMP- 03_6	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) How many Priority A corrective tags were issued as a result of transmission tower climbing inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of transmission tower climbing inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 10	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_7	7	CalAdvocate s-PGE- 2022WMP- 03_7	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) How many Priority A corrective tags were issued as a result of transmission tower drone inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of transmission tower drone inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 11	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_8	8	CalAdvocate s-PGE- 2022WMP- 03_8	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. 10 a) How many Priority A corrective tags were issued as a result of transmission tower detailed ground inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of transmission tower detailed ground inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 12	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_9	9	CalAdvocate s-PGE- 2022WMP- 03_9	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) How many Priority A corrective tags were issued as a result of work verification or quality control of transmission tower climbing inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of work verification or quality control of transmission tower climbing inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 13	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_10	10	CalAdvocate s-PGE- 2022WMP- 03_10	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) How many Priority A corrective tags were issued as a result of work verification or quality control of transmission tower drone inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of work verification or quality control of transmission tower drone inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 14	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_11	11	CalAdvocate s-PGE- 2022WMP- 03_11	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) How many Priority A corrective tags were issued as a result of work verification or quality control of transmission tower detailed ground inspections performed in 2021? b) How many Priority B corrective tags were issued as a result of work verification or quality control of transmission tower detailed ground inspections performed in 2021?	Alan Wehman	12/17/2021	2/1/2022	2/1/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 15	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_12	12	CalAdvocate s-PGE- 2022WMP- 03_12	Please note that the geographical regions are mutually exclusive (i.e., "Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit-segment, the following relationships should hold: Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles. Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuit-segment miles.	Alan Wehman	12/17/2021	2/8/2022	2/10/2022	0	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 15	CaPa	Set WMP-03	CalAdvocate s-PGE- 2022WMP- 03_12 REV	12 REV	CalAdvocate s-PGE- 2022WMP- 03_12 REV	Please note that the geographical regions are mutually exclusive (i.e., "Other HFTD" excludes areas that are in either Tier 2 or Tier 3). Therefore, for any given circuit-segment, the following relationships should hold: Tier 2 miles + Tier 3 miles + Other HFTD miles = total HFTD miles. Tier 2 miles + Tier 3 miles + Other HFTD miles + non-HFTD miles = total circuit-segment miles.	Alan Wehman	12/17/2021	4/1/2022	4/1/2022	0	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 16	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_1	1	CalAdvocate s-PGE- 2022WMP- 04_1	For each POU to which you supply power, please respond to the following: Describe what coordination, planning, or other activities took place in 2021 between you and the POUs to mitigate the effect of a potential PG&E-initiated PPSR event on the POU and its customers.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	0	8	PPSR	Communication with Publicly-Owned Utilities	
Pre-Discove ry 17	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_2	2	CalAdvocate s-PGE- 2022WMP- 04_2	Provide a datasheet containing, as its features, the most recent spatial data for all circuit segments for which PG&E has used its Wildlife Distribution Risk Model to calculate circuit-segment-level expected risk. Include the following fields for each circuit-segment: For item (c), please include all relevant risk scores as separate attributes. For example, include vegetation risk score, conductor risk score, and all other driver-specific risk scores. PG&E has registered this spreadsheet and all other driver-specific risk scores. PG&E has your present circuit modeling capabilities with regard to PPSR decision-making ("PPSR circuit modeling capabilities"), including with what level of granularity they are able to determine how an circuit hardening effort to a circuit change to a line segment will affect PPSR thresholds. b) Please describe any improvements to the present PPSR circuit modeling capabilities that you expect to implement in 2022.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	1	7.1.F	Wildfire Mitigation Strategy	Wildfire Risk Data	
Pre-Discove ry 18	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_3	3	CalAdvocate s-PGE- 2022WMP- 04_3	For each POU to which you supply power, please respond to the following: Describe what coordination, planning, or other activities took place in 2021 between you and the POUs to mitigate the effect of a potential PG&E-initiated PPSR event on the POU and its customers.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	0	8.1 and 8.2	PPSR	Additional Detail	
Pre-Discove ry 19	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_4	4	CalAdvocate s-PGE- 2022WMP- 04_4	Note: this question refers to transmission structures generally, and should not be construed to be limited to 500 KV towers. a) Provide the total number of transmission towers that PG&E forecasts performing climbing inspections on in 2022. b) Provide the total number of transmission towers that PG&E forecasts performing drone inspections on in 2022. c) Provide the total number of transmission towers that PG&E forecasts performing detailed ground inspections on in 2022.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	0	7.3.4.2	Asset Management and Inspections	Detailed Inspections - Transmission	
Pre-Discove ry 20	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_5 (a,b)	5 (a,b)	CalAdvocate s-PGE- 2022WMP- 04_5 (a,b)	For any program for which you forecast capital expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Q5.	Alan Wehman	12/17/2021	3/4/2022	3/4/2022	1	3.1	Summary of Wildfire Mitigation Plan Initiative Expenditures	Additional detail on expenditures	
Pre-Discove ry 20	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_5 (c-d)	5 (c-d)	CalAdvocate s-PGE- 2022WMP- 04_5 (c-d)	For any program for which you forecast capital expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Q5.	Alan Wehman	12/17/2021	3/11/2022	3/4/2022	1	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 20	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_5 (e)	5 (e)	CalAdvocate s-PGE- 2022WMP- 04_5 (e)	For any program for which you forecast capital expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Question 5.	Alan Wehman	12/17/2021	3/14/2022 (Noon)	3/14/2022	1	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 21	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_6 (a,b)	6 (a,b)	CalAdvocate s-PGE- 2022WMP- 04_6 (a,b)	For any program for which you forecast operating expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: 7 a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Question 6.	Alan Wehman	12/17/2021	3/4/2022	3/4/2022	1	3.1	Summary of Wildfire Mitigation Plan Initiative Expenditures	Additional detail on expenditures	
Pre-Discove ry 21	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_6 (c-d)	6 (c-d)	CalAdvocate s-PGE- 2022WMP- 04_6 (c-d)	For any program for which you forecast operating expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: 7 a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Question 6.	Alan Wehman	12/17/2021	3/11/2022	3/4/2022	1	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 21	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_6 (e)	6 (e)	CalAdvocate s-PGE- 2022WMP- 04_6 (e)	For any program for which you forecast operating expenditures in 2022 to be at least two times actual expenditure in 2021, please provide: 7 a) The name of the program as it is identified in your 2022 WMP Update b) The WMP Initiative number in Table 12 of your 2022 WMP Update c) The name of the program as it is identified in your 2021 WMP Update d) The WMP Initiative number in Table 12 of your 2021 WMP Update e) An explanation for the projected increase. Supplemental to Question 6.	Alan Wehman	12/17/2021	3/14/2022 (Noon)	3/14/2022	0	N/A	Miscellaneous	Additional Detail	
Pre-Discove ry 22	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_7	7	CalAdvocate s-PGE- 2022WMP- 04_7	Provide PG&E's workplan that describes where and when you will perform system hardening on distribution circuits in 2022. For projects that you expect to partially complete in 2022 (i.e., projects that started before 2022 and are expected to continue in 2022), or projects that are expected to be completed after 2022, please include the project and report the work that you forecast will actually be performed in calendar year 2022. This workplan should be in an Excel format.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	1	7.3.5.2	Vegetation Management (VM) and Inspections	Enhanced Vegetation Management	
Pre-Discove ry 23	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_8	8	CalAdvocate s-PGE- 2022WMP- 04_8	Provide PG&E's workplan that describes where and when you will perform system hardening on transmission circuits in 2022. Include the same information detailed in the preceding question.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	1	7.3.3.17.1	Grid Design and System Hardening	System Hardening - Distribution	
Pre-Discove ry 25	CaPa	Set WMP-04	CalAdvocate s-PGE- 2022WMP- 04_10	10	CalAdvocate s-PGE- 2022WMP- 04_10	Please provide disaggregated information related to system hardening in the tables below. Note: in PG&E's 2021 WMP Update, this information was aggregated into Section 7.3.3.17.1 "Updates to grid topology to minimize risk of ignition in HFTD system hardening." Discontinue in Table 12. a) Please fill out the table below, disaggregating the actual and projected spending amounts as shown. Add extra columns as needed. Total Line Removal Reduction of the following questions relate to the article Humboldt County Issues Stop Work Order, PG&E Removes Contractor on EVM in Soham After Complaints/Video by Residents, published in Redhead Blackbelt on December 16, 2021 (the "article"). 2) This article describes activities performed by a contractor allegedly performing EVM work for PG&E in Humboldt County. Question 1 the article alleges that a contractor, KNE, was performing EVM work for PG&E in.	Alan Wehman	12/17/2021	2/25/2022	2/25/2022	0	7.3.3.17.1	Grid Design and System Hardening	System Hardening - Distribution	
Pre-Discove ry 26	CaPa	Set WMP-05	CalAdvocate s-PGE- 2022WMP- 05_1	1	CalAdvocate s-PGE- 2022WMP- 05_1	Question 2 a) Is KDF still engaged with PG&E to perform EVM work? b) Is KDF currently engaged with PG&E as a contractor for any work other than EVM?	Alan Wehman	12/23/2021	1/10/2022	1/10/2022	1	7.3.5.2	Vegetation Management (VM) and Inspections	Miscellaneous	
Pre-Discove ry 27	CaPa	Set WMP-05	CalAdvocate s-PGE- 2022WMP- 05_2	2	CalAdvocate s-PGE- 2022WMP- 05_2	Question 2 a) Is KDF still engaged with PG&E to perform EVM work? b) Is KDF currently engaged with PG&E as a contractor for any work other than EVM?	Alan Wehman	12/23/2021	1/10/2022	1/10/2022	0	7.3.5.2	Vegetation Management (VM) and Inspections	Miscellaneous	
Pre-Discove ry 28	CaPa	Set WMP-05	CalAdvocate s-PGE- 2022WMP- 05_3	3	CalAdvocate s-PGE- 2022WMP- 05_3	Question 3 The article alleges that the contractor, KDF, did not have an encroachment permit to do road work on Thomas Road in the Salmon Creek watershed. a) Is it accurate that KDF did not have an encroachment permit to do road work in the area described, as alleged in the article? b) If the answer to part (a) is yes, please explain why KDF did not secure the proper permits prior to performing the work.	Alan Wehman	12/23/2021	1/10/2022	1/10/2022	0	7.3.5.2	Vegetation Management (VM) and Inspections	Miscellaneous	



