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	URL to Response
1	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	1	CalAdvocates-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." a) State the factors that explain why contractors performed more inspections per day on average than PG&E inspectors in 2021. b) With regard to detailed ground inspections of transmission towers performed by contractors in 2021, what was	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
2	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	2	CalAdvocates-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. Provide the following data for desktop Quality Control reviews of transmission climbing inspections: a) Number of inspections reviewed by Quality Control (population size) in 2018 b) Number of	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
3	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	3	CalAdvocates-PGE-2022WMP-12_3	For desktop Quality Control reviews of transmission drone inspections, please provide the same data as requested in Question 2.	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
4	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	4	CalAdvocates-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 Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
5	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	5	CalAdvocates-PGE-2022WMP-12_5	For field Quality Control reviews of transmission climbing inspections, please provide the same data as requested in Question 2.	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
6	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	6	CalAdvocates-PGE-2022WMP-12_6	For field Quality Control reviews of transmission drone inspections, please provide the same data as requested in Question 2	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
7	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	7	CalAdvocates-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 Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip

8	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	8	CalAdvocates-PGE-2022WMP-12_8	In response to Data Request CalAdvocates-PGE-2022WMP-08, 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 20% of inspections resulted in a "Failed Review." a) Define the population reviewed through Desktop Reviews, including but not limited to the number of inspections checked, and the date range that those	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
9	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	9	CalAdvocates-PGE-2022WMP-12_9	For Desktop Quality Control reviews of detailed distribution inspections, please provide the same data as requested in Question 2.	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
10	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	10	CalAdvocates-PGE-2022WMP-12_10	For Field Quality Control reviews of detailed distribution inspections, please provide the same data as requested in Question 2.	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
11	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	11	CalAdvocates-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-Q02Atch01.zip" which has been prepared with the same information in the requested shapefile format." Cal Advocates understands "The requested information is provided in PG&E's 2022 WMP in Section 7.1.F" to refer to the file "WMP_section_71F.gdb." Is this correct? If not, please explain.	Holly Wehrman Carolyn Chen Layla Labagh	3/3/2022	3/8/2022	3/8/2022	0		7.1.F	Wildfire Mitigation Strategy	Wildfire Risk Data	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
12	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	12	CalAdvocates-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 Shape_Length Circuit_Segment_name Per PG&E's 2022 WMP, p. 330, the "mean_mavf_core_risk" attribute was derived from the 2021 WDRM v2 model. Cal Advocates understands that the 2021 WDRM v2 model includes separate risk scores for vegetation-caused ignitions and conductor-involved ignitions.	Holly Wehrman Carolyn Chen Layla Labagh	3/3/2022	3/8/2022	3/8/2022	1		7.1.F	Wildfire Mitigation Strategy	Wildfire Risk Data	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip

13	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	13	CalAdvocates-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." a) Please explain how PG&E developed the forecast total expenditure of $819.1 million for 2022 system hardening, reported in response to that Data Request. b) Please provide any workpapers that PG&E used to develop the expenditure forecast noted in part (a).	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
14	CalPA	Set WMP-12	CalAdvocates-PGE-2022WMP-12	14	CalAdvocates-PGE-2022WMP-12_14	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 that context: a) Do PG&E's inspection procedures require inspectors to recommend priority changes to an existing corrective notification if the inspector finds conditions in the field	Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_012.zip
15	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	1	CalAdvocates-PGE-2022WMP-13_1	PG&E's 2021 Q4 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 successfully implementing the REFCL technology, and reported final results based on this pilot. Please refer to final report for detailed information.3 a) Please provide the "final report" referred	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
16	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	2	CalAdvocates-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 Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip

17	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	3	CalAdvocates-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 additional pilot evaluation. If the additional pilot is successful, PG&E will look for opportunities to place REFCL into full service as well as evaluate whether any additional sites are appropriate for future installations. a) State the reasons PG&E has not set [illegible]	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
18	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	4	CalAdvocates-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. a) Please explain what you mean by "REFCL technology can be effective at reducing fault currents to below fire ignition levels." b) Please define "fire ignition levels" as used the quotation above.	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
19	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	5	CalAdvocates-PGE-2022WMP-13_5	PG&E's 2022 WMP states: 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 equipment". b) How long has the REFCL pilot been stalled? c) Has PG&E obtained the necessary replacement equipment from any suppliers in order to	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
20	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	6	CalAdvocates-PGE-2022WMP-13_6	a) 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 risks? d) Please provide any available supporting documentation regarding your response to subpart (c) above.	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip

21	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	7	CalAdvocates-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? b) What will PG&E do to fully evaluate the REFCL technology beyond the initial testing? c) How have PG&E's plans changed given the equipment failure?	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
22	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	8	CalAdvocates-PGE-2022WMP-13_8	a) Has/have 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 installation to avoid foreign supply chain issues. a) Does PG&E intend to use "gang operated switchgear and protective devices instead of single pole operated devices for REFCL installations" going forward, including this Calistoga pilot? b) Why does PG&E consider that it	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
23	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	9	CalAdvocates-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, but these plans could change pending pilot results and integration with other enhanced automation and wildfire mitigation efforts described in this chapter. In coordination with deployments of other technologies, future REFCL deployments	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
24	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	10	CalAdvocates-PGE-2022WMP-13_10	Regarding these two 2022 WMP Initiatives: • 7.3.3.17.4 – Updates to grid topology to minimize risk of ignition in HFTDs, Rapid Earth Current Fault Limiter11 • 7.3.6.8 – Protective Equipment and Device Settings" 12 Please explain: a) How do these two initiatives differ? b) How do these two initiatives compare in terms of expected risk reduction? c) How do these two initiatives compare in terms of impacts to customers from loss of power? d) Have you performed a comparative cost-benefit analysis of these two initiatives? e) If the answer to part (d) is yes, please provide this	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip

25	CalPA	Set WMP-13	CalAdvocates-PGE-2022WMP-13	11	CalAdvocates-PGE-2022WMP-13_11	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 relevant supporting attachments. b) Has PG&E calculated an RSE score for this initiative? c) If the answer to subpart (b) is "yes", please provide said RSE and all supporting workpapers for said RSE.	Miles Gordon Holly Wehrman Carolyn Chen Layla 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	https://www.pge.com/pge_global/common/pdfs/safety/emergency-preparedness/natural-disaster/wildfires/wildfire-mitigation-plan/reference-docs/CalAdvocates_013.zip
26	OEIS	Set 003	OEIS-PG&E-22-003	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			7.3.5	Vegetation Management (VM) and Inspections	Vegetation grow-in mitigation	
27	OEIS	Set 003	OEIS-PG&E-22-003	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			7.3.5	Vegetation Management (VM) and Inspections	Vegetation fall-in mitigation	
28	OEIS	Set 003	OEIS-PG&E-22-003	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 will as of Jan 1, 2023) schedule VM inspections based on annual or periodic schedules (E.II.b) and determine procedures/checklists based on statue and regulatory guidelines only (E.III.b). a)Explain why PG&E is developing predictive modeling capabilities for VM (E.II.c) but not using those models to	Kevin Miller	3/4/2022	3/10/2022	3/10/2022			7.3.5	Vegetation Management (VM) and Inspections	Vegetation inspection effectiveness	
29	OEIS	Set 003	OEIS-PG&E-22-003	4	OEIS-PG&E-22-003_4	Concerning Maturity Survey question E.IV.c, why is PG&E not using ignition and propagation risk modeling to guide clearances around lines and equipment? a)How does and will PG&E's ignition and propagation risk modeling guide clearances? b)When?	Kevin Miller	3/4/2022	3/10/2022	3/10/2022			7.3.5	Vegetation Management (VM) and Inspections	Vegetation grow-in mitigation	
30	OEIS	Set 003	OEIS-PG&E-22-003	5	OEIS-PG&E-22-003_5	In data request OEIS-PG&E-22-002, Energy Safety asked PG&E to answer 41 2022 Maturity Survey questions it said it benchmarked through consultation with other utilities in 2022 by the same standard of interpretation it used to answer the same 41 questions in 2021 and 2020. In its response, PG&E indicated that "We cannot, however, go back in time to determine how we would have answered the same question in 2020 or 2021 in light of changes that have occurred since that time." Energy Safety understands that PG&E cannot go back in time to change its answers	Kevin Miller	3/4/2022	3/10/2022	3/10/2022	0		N/A	Miscellaneous	Maturity Survey	

31	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	1	CalAdvocates-PGE-2022WMP-14_1	On Pg. 436 of PG&E's 2022 WMP, table 7.3.3-1 highlights the average time it takes PG&E to complete a system hardening project that spans 1-2 miles. a)Please provide a list of all types of system hardening projects that are included in this table's data. b)Please provide a separate table highlighting the average time frame to complete a covered conductor project spanning 1-2 miles. If you are unable to do so, please describe your reasoning.	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.3	Grid Design and System Hardening	Covered Conductor Installation	
32	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	2	CalAdvocates-PGE-2022WMP-14_2	Pg. 435 of your 2022 WMP Update states, "The table represents base overhead System Hardening projects after scoping is completed. As mentioned above, Fire Rebuild occurs on a faster cycle." Therefore, please disaggregate table 7.3.3-1 into separate data according to the following project types (assuming that projects are comparable in scale): a)Covered conductor, Fire Rebuild b)Covered conductor, not Fire Rebuild c)Undergrounding, Fire Rebuild d)Undergrounding, not Fire Rebuild	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.3	Grid Design and System Hardening	Covered Conductor Installation	
33	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	3	CalAdvocates-PGE-2022WMP-14_3	On Pg. 442 of PG&E's 2022 WMP, PG&E states, "In 2021, PG&E identified and completed repairs or replacements of approximately 10,946 deteriorated crossarms." a)Please provide a .gdb spatial file showing where PG&E completed repairs of the deteriorated crossarms noted above. b)Please provide a .gdb spatial file showing where PG&E completed replacements of the deteriorated crossarms noted above.	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.5	Grid Design and System Hardening	Crossarm Maintenance, Repair and Replacement	
34	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	4	CalAdvocates-PGE-2022WMP-14_4	On Pg. 445 of PG&E's 2022 WMP, PGE&E states, "In 2021, PG&E replaced 16,359 poles and reinforced 3,012 poles." a)Please provide a .gdb spatial file showing where PG&E replaced poles. b)Please provide a .gdb spatial file showing where PG&E reinforced poles.	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.6	Grid Design and System Hardening	Distribution Pole Replacement	
35	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	5	CalAdvocates-PGE-2022WMP-14_5	On Pg. 451 of PG&E's 2022 WMP, PG&E states, "Recently, moisture intrusion issues have been identified in some of the "Viper" branded reclosers that have been installed on the PG&E system. After significant rains in the fall of 2021, this issue, which impacts the functionality but not the safety of these devices, was identified in several locations." a)Please describe the moisture intrusion issue occurring on the Viper reclosers. b)Please state the basis for PG&E's assertion that the issue "impacts the functionality but not the safety of these devices." c)Please describe the functionality	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.8.1	Grid Design and System Hardening	Distribution Line Sectionalizing	

36	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	6	CalAdvocates-PGE-2022WMP-14_6	On Pg. 452 of PG&E's 2022 WMP, PGE&E states, "We achieved our 2021 target to install 29 switches by September 1, 2021. In addition, we installed 12 T-Line SCADA switches benefitting PSPS operations after September 1, 2021, for a 2021 total of 41." a)Please provide GIS point location data (in .gdb format) showing where PG&E completed installations of the 29 switches in 2021. b)Please provide GIS point location data (in .gdb format) showing where PG&E completed installations of the 12 T-Line SCADA switches in 2021.	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.8.2	Grid Design and System Hardening	Transmission Line Sectionalizing	
37	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	7	CalAdvocates-PGE-2022WMP-14_7	On Pg. 472 of PG&E's 2022 WMP, PG&E states, "Due to the weather conditions in 2021, none of the substations where generation was staged were utilized in the 2021 PSPS season." a)What lessons did PG&E learn about staging temporary generation from its experience in 2021? b)How will PG&E improve its staging of generation in 2022 to ensure that it is useful during the PSPS season?	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.11.1	Grid Design and System Hardening	Generation for PSPS Migitation	
38	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	8	CalAdvocates-PGE-2022WMP-14_8	**On Pg. 514 of PG&E's 2022 WMP, PG&E states, "PG&E switched vendors for this work in 2021. Contracts took longer than expected and the new vendor had to complete an extensive pilot to establish a solid foundation based on high quality pole loading calculations."** **a)Please describe why PG&E switched vendors for this work in 2021.** **b)Please provide all supporting documents and claims that describes PG&E's reasoning related to its response to subsection a) above.**	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.13	Grid Design and System Hardening	Pole Loading Infrastructure Hardening and Replacement	
39	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	9	CalAdvocates-PGE-2022WMP-14_9	On Pg. 551 of PG&E's 2022 WMP, PG&E states that it will complete 32 circuit-miles of transmission system hardening in 2022. a)Please disaggregate these circuit-miles of transmission hardening into the following types: bare-wire overhead hardening, conductor removal, other. b)Please state how many total circuit-miles of transmission system hardening you plan to complete in 2022, excluding the work that resulted from the Administrative Consent Order attached to Resolution SED-6. c)Please disaggregate your response to part (b) into the following types: bare-wire	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.17.2	Grid Design and System Hardening	System Hardening - Transmission	

40	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	10	CalAdvocates-PGE-2022WMP-14_10	On Pg. 364 of PG&E's 2022 WMP regarding Remote Grid Standalone Power Systems (SPS), PG&E states, "The program expects to grow from 1 SPS unit deployed in 2021 to 2 SPS units deployed in 2022 and on towards approximately 15 projects in 2023, followed by additional growth in the overall number of systems deployed annually in 2024-2025." a)Please describe the planning, scoping, and pre-construction work PG&E will be performing in 2022 to facilitate the planned scaling up from 2 projects in 2022 to 15 projects in 2023. b)What is the forecast number of annual sites to be	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.17.5	Grid Design and System Hardening	Remote Grid	
41	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	11	CalAdvocates-PGE-2022WMP-14_11	On Pg. 367 of PG&E's 2022 WMP, PG&E uses three different terms, "trench miles" "circuit miles" and "underground miles". a)Please define each of these terms. b)How does each term differ from one another? c)Please provide a conversion between these units of measure for a 1-phase circuit (i.e., x trench miles = y circuit miles = z underground miles). d)Please provide a conversion between these units of measure for a 2-phase circuit (i.e., x trench miles = y circuit miles = z underground miles). e)Please provide a conversion between these units of measure for a 3-	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.17.6	Grid Design and System Hardening	Butte County Rebuild Program	
42	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	12	CalAdvocates-PGE-2022WMP-14_12	On Pg. 367 of PG&E's 2022 WMP, PG&E says, "This figure does not include a small volume (approximately 1.4 circuit miles) of previously hardened overhead lines that were placed underground." a)How many circuit-miles total (including non-Butte rebuild miles) were previously hardened overhead and were placed underground in 2020? b)How many circuit-miles total (including non-Butte rebuild miles) were previously hardened overhead and were placed underground in 2021? c)How many previously hardened overhead circuit-miles does PG&E	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.17.6	Grid Design and System Hardening	Butte County Rebuild Program	
43	CalPA	Set WMP-14	CalAdvocates-PGE-2022WMP-14	13	CalAdvocates-PGE-2022WMP-14_13	In response to Data Request CalAdvocates-PGE-2022WMP-11, Question 3, PG&E provided its 2021 system hardening workplan, updated with the actual work performed in 2021. This workplan lists the circuit name associated with each system hardening order but does not list the circuit protection zone. Please provide an updated version of this spreadsheet with the circuit protection zone (as a new column) for each order (row).	Dillon Copa Holly Wehrman Carolyn Chen Layla Labagh	3/10/2022	3/15/2022				7.3.3.17	Grid Design and System Hardening	System Hardening	
44	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	1	CalAdvocates-PGE-2022WMP-15_1	PG&E's responses to Data Request CalAdvocates-PGE-2022WMP-10, Questions 1-3, are summarized in the following table: Tree Attachments Existing as of 2/1/2022	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022				7.3.3	Grid Design and System Hardening	Tree Attachments	
45	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	2	CalAdvocates-PGE-2022WMP-15_2	Tree Attachments a) Does PG&E consider tree attachments to be a significant wildfire risk factor? Please explain your answer. b) Does PG&E	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022				7.3.3	Grid Design and System Hardening	Tree Attachments	

46	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	3	CalAdvocates-PGE-2022WMP-15_3	In response to Data Request CalAdvocates-PGE-2022WMP-10, Question 9, PG&E provided its Quality Reviews of the potential exceptions identified in the Federal Monitor Report from November 19, 2021. Per the file "WMP-Discovery2022_DR_CalAdvocates_010-Q09Atch01.xlsx" PG&E agrees with the Federal Monitor (column J) in 1,576 findings. Of those 1,576 cases, the QC Action (column N) is "N/A" for 1,035 findings. a) Did PG&E perform any retraining in association with the 1,035 findings where QC Action is listed as "N/A" noted above? Please explain why or why	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022								
47	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	4	CalAdvocates-PGE-2022WMP-15_4	In response to Data Request CalAdvocates-PGE-2022WMP-10, Question 9, PG&E provided its Quality Reviews of the potential exceptions identified in the Federal Monitor Report from November 19, 2021. Per the file "WMP-Discovery2022_DR_CalAdvocates_010-Q09Atch02.xlsx" PG&E agrees with the Federal Monitor (column K) in 636 findings. Of those 636 findings, the QC Review Action (column O) is "N/A" for 616. a) Did PG&E perform any retraining in association with the 616 findings where QC Review Action is listed as "N/A" noted above? Please explain why or why	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022								
48	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	5	CalAdvocates-PGE-2022WMP-15_5	Page 123 of PG&E's 2022 WMP states the following: Finally, it is important to note that in this 2022 WMP, the model that is used for the development of workplans for the distribution system is the 2021 WDRM v2 which is described above and in the 2021 WMP. As described in (9) below, the 2022 WDRM v3 is still being reviewed prior to approval. Since workplans for the 2022 WMP needed to be developed prior to the beginning of the year, the 2021 WDRM v2 was used to inform these workplans. a) Does PG&E expect to see a significant reprioritization of circuit segments as a result of the	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022								
49	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	6	CalAdvocates-PGE-2022WMP-15_6	In response to Data Request CalAdvocates-PGE-2022WMP-04, Question 8, PG&E provided its distribution system hardening workplan for 2022. Column P of attachment "WMP-Discovery2022_DR_CalAdvocates_004-Q08Atch01.xlsx" lists the risk ranking of each CPZ where PG&E plans to perform system hardening work. Please provide an updated copy of this workplan with an additional column listing the risk ranking of each CPZ according to the current version of PG&E's 2022 WDRM v3.	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022								

50	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	7	CalAdvocates-PGE-2022WMP-15_7	Page 140 of PG&E's 2022 WMP states the following: To avoid exposing the model to misleading data, the training events are restricted to June through November. This does not require the assumption that no wildfires are possible in other months, but only that any ignitions and wildfires that do occur would have the same relationship with the model covariates as the ones the model is already trained on. Please provide workpapers or other available supporting evidence to support the statement that "any ignitions and wildfires that do occur [in months other than June through November]	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022									
51	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	8	CalAdvocates-PGE-2022WMP-15_8	Page 145 of PG&E's 2022 WMP states, "As of the state of the 2022 WMP submission, E3's review of 2022 WDRM v3 and WFC Model has not been completed." a) When does PG&E expect this review to be complete? b) Please provide a copy of E3's review of PG&E's 2022 WDRM v3 and WFC Model when it is complete.	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022									
52	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	9	CalAdvocates-PGE-2022WMP-15_9	In response to remedy PG&E-21-13 on page 216 of PG&E's 2022 WMP, PG&E refers to the Progress Report it filed on November 1, 2021. Page 39 of this Progress Report states the following with respect development of the system hardening workplan: In addition, for some CPZs, although the CPZ is not itself the highest risk ranked CPZ, performing system hardening work may allow us to mitigate future PSPS events. a) Please state the basis for PG&E's decision to prioritize PSPS mitigation over wildfire mitigation in the situations described above. b) Please provide	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022									
53	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	10	CalAdvocates-PGE-2022WMP-15_10	Page 316 of PG&E's 2022 WMP states, "In 2021, PG&E implemented a program to proactively reduce the backlog of EC tags generated during the enhanced system inspections performed in recent years." Please describe this program.	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022									
54	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	11	CalAdvocates-PGE-2022WMP-15_11	PG&E's response to data request CalAdvocates-PGE-2022WMP-09, Question 1, shows three open Priority A corrective notifications on PG&E's distribution system in HFTD with "Authorized End Dates" earlier than February 1, 2022. a) Why hasn't PG&E resolved these notifications yet? b) What is PG&E's timetable to resolve these notifications?	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022									

55	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	12	CalAdvocates-PGE-2022WMP-15_12	PG&E's response to data request CalAdvocates-PGE-2022WMP-09, Question 1, shows 785 open Priority B corrective notifications on PG&E's distribution system in HFTD with "Authorized End Dates" earlier than February 1, 2022. a) Why hasn't PG&E resolved these notifications yet? b) What is PG&E's timetable to resolve these notifications?	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022							
56	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	13	CalAdvocates-PGE-2022WMP-15_13	PG&E's response to data request CalAdvocates-PGE-2022WMP-09, Question 1, shows 111,502 open corrective notifications on PG&E's distribution system in HFTD with "Authorized End Dates" earlier than February 1, 2022 (that is, overdue notifications). Cal Advocates understands that the majority of these were opened in 2019 and later years as a result of enhanced inspections. Year corrective notification opened Number of overdue corrective notifications 2001 1 2013 1 2014 100	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022							
57	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	14	CalAdvocates-PGE-2022WMP-15_14	Regarding PG&E's response to data request CalAdvocates-PGE-2022WMP-09: a) Does PG&E regularly monitor how many overdue, unresolved corrective notifications it has? b) Does PG&E take any special action when a corrective notification is years past its due date? c) Does PG&E analyze and track whether adverse outcomes (such as outages, wires down, and ignitions) are causally linked to overdue maintenance? d) Does PG&E regularly report any of the information addressed in parts (a) through (c) to its executives or its Board of Directors? If so, please describe this	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022							
58	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	15	CalAdvocates-PGE-2022WMP-15_15	PG&E's non-spatial data tables included in 2022-02-25_PGE_2022_WMP-Update_R0_Section 7.3.a_Atch01.xlsx do not appear to follow the template included in Energy Safety's Final 2022 Wildfire Mitigation Plan (WMP) Update Guidelines, Attachment 3. Please provide an updated version of this file with data in the latest template.	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022							
59	CalPA	Set WMP-15	CalAdvocates-PGE-2022WMP-15	16	CalAdvocates-PGE-2022WMP-15_16	Table 12 of PG&E's non-spatial data tables appears to aggregate routine vegetation management and Enhanced Vegetation Management (EVM) under initiative "7.3.5.2 Detailed inspections and management practices for vegetation clearances around distribution electrical lines and equipment." Previously, EVM was listed separately from routine vegetation management. Please provide disaggregated costs for initiative 7.3.5.2, with separate numbers for routine VM, enhanced VM, and any other program currently aggregated under initiative 7.3.5.2	Holly Wehrman Carolyn Chen Layla Labagh	3/11/2022	3/16/2022							