

August 1, 2023

OFFICE OF ENERGY INFRASTRUCTURE SAFETY OF THE CALIFORNIA NATURAL RESOURCES AGENCY

**Subject: Pacific Gas and Electric Company’s Quarterly Notification Regarding the Implementation of Its Approved Wildfire Mitigation Plan and Its Safety Recommendations; Submitted Pursuant to Public Utilities Code Section 8389(e)(7), the Office of Energy Infrastructure Safety’s Compliance Operational Protocols, and Assembly Bill 1054**

Pacific Gas and Electric Company (PG&E) respectfully submits this Quarterly Notification detailing: (1) the status of its current Wildfire Mitigation Plan (WMP); (2) recommendations of the most recent safety culture assessment; (3) recommendations of the Board of Directors’ Safety Committee meetings that occurred during the quarter; and (4) a summary of the implementation of any safety committee recommendations from the previous quarterly submittal. This Quarterly Notification is provided pursuant to California Public Utilities Code (PUC) Section 8389(e)(7) and the Office of Energy Infrastructure Safety’s (Energy Safety) Compliance Operational Protocols, issued on February 16, 2021 (Compliance Operational Protocols) and subsequently clarified by Energy Safety on September 8, 2021.<sup>1</sup>

**Background**

On July 12, 2019, Governor Gavin Newsom signed Assembly Bill (AB) 1054 into law, adding Section 8389(e)(7) to the PUC. As one of the conditions for the issuance of a safety certification, Section 8389(e)(7) — as amended by AB 148 — requires documentation of the following:

The electrical corporation is implementing its approved wildfire mitigation plan. The electrical corporation shall file a notification of implementation of its wildfire mitigation plan with the office and an information-only submittal with the commission on a quarterly basis that details the implementation of both its approved wildfire mitigation plan and recommendations of the most recent safety culture assessments by the commission and office, and a statement of the recommendations of the board of directors safety committee meetings that occurred during the quarter. The notification and information-only submittal shall also summarize the implementation of the safety committee recommendations from the electrical corporation’s

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<sup>1</sup> Energy Safety issued “Submission of Safety Certification Request and Supporting Documents” on September 8, 2021, which, among other items, clarified Assembly Bill 148, effective as of July 22, 2021, updated PUC Section 8389(e)(7) to reporting requirements, notably that the Quarterly Advice Letter (QAL) would change in format, but not content, to the Quarterly Notification.

previous notification and submission. If the office has reason to doubt the veracity of the statements contained in the notification or information-only submittal, it shall perform an audit of the issue of concern. The electrical corporation shall provide a copy of the information-only submittal to the office.

On February 16, 2021, Energy Safety issued Compliance Operational Protocols which, in addition to the existing requirements established by Section 8389(e)(7), provide further guidance and requirements for electrical corporations' quarterly submissions. Specifically, the Compliance Operational Protocols standardize the quarterly submission dates across electrical corporations, describe the information and materials to be included in the Quarterly Notifications.

On December 14, 2022, Energy Safety issued new Data Guidelines with the 2023-2025 WMP Technical Guidelines. The Data Guidelines require the submission of Quarterly Data Reports (QDR), concurrent with the QN, and detailed initiative commitment progress in Table 1 of the QDR.

This Quarterly Notification submission provides the requested information for the second quarter (Q2) of 2023, pursuant to the statutory requirements and the Compliance Operational Protocols.<sup>2</sup>

### **Q2 2023 Update**

#### **WMP Regulatory Background and Scope of Quarterly Notification:**

PG&E submitted its initial WMP on March 27, 2023, and subsequently submitted a revised version on April 6, 2023.<sup>3</sup> A revision notice was issued by Energy Safety on June 22, 2023, and we will submit an updated version of our WMP, that responds to the items identified in the revision notice, on August 7, 2023. Table 1 of our Q2 2023 QDR, which is being submitted concurrently with this Quarterly Notification, provides progress updates for our 51 initiative commitments.<sup>4</sup> This Quarterly Notification provides additional details associated with these initiative commitments.

#### **2023 WMP Initiative Commitment Summary:**

A table of all 51 initiative commitments, including the status, is provided in Appendix 1. A summary of the status of these initiative commitments, broken down by WMP category,

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<sup>2</sup> Section 8389(e)(7) provides that an electrical corporation shall report on implementation of its approved wildfire mitigation plan.

<sup>3</sup> PG&E's 2023 WMP is available at: [www.pge.com/wildfiremitigationplan](http://www.pge.com/wildfiremitigationplan).

<sup>4</sup> This total does not include our 11 ten-year objectives since there will be minimal updates for this long-term work in 2023.

is provided in Table 1 below. The Compliance Operational Protocols indicate that five pre-designated status categories should be used for each initiative commitment.<sup>5</sup>

**Table 1: Summary of 2023 WMP Initiative Commitments**

<b>2023 WMP Category</b>	<b>Completed</b>	<b>In Progress</b>	<b>Planned</b>	<b>Delayed</b>	<b>Cancelled</b>	<b>Total</b>
A. Situational Awareness and Forecasting	1	3	1	0	0	<b>5</b>
B. Grid Design, Operations and Maintenance	5	17	0	5	0	<b>27</b>
C. Vegetation Management and Inspections	4	4	0	1	0	<b>9</b>
D. Public Safety Power Shut off	0	3	0	1	0	<b>4</b>
E. Emergency Preparedness Plan	1	3	0	0	0	<b>4</b>
F. Community Outreach and Engagement	0	2	0	0	0	<b>2</b>
<b>Total</b>	<b>11</b>	<b>32</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>51</b>

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<sup>5</sup> Compliance Operational Protocols at p. 9 (indicating status should be: completed, in progress, planned, delayed, or cancelled).

### **Details of the Delayed Initiative Commitments:**

In this section, we provide information regarding the initiative commitments that have been designated as “Delayed” at the end of Q2. In Table 7-3-1 and Table 7-3-2 of the WMP, we provided a Unique ID for each initiative commitment.<sup>6</sup> Below, we have included the Unique ID, the name of the activity, a brief description of the activity, and the activity’s current status.

As noted in our Q1 update, the unprecedented winter storms this year caused delays for several of the initiative commitments identified below. However, we implemented corrective actions and were able to catch up on multiple initiatives so that this work is no longer behind schedule. For the seven initiatives that are currently behind schedule, we have implemented catch back plans and forecast dates for when we anticipate each initiative will be back on track with its original plan.

**GH-01 System Hardening – Distribution:** This initiative involves the completion of 420 circuit miles of system hardening work, which includes overhead system hardening, undergrounding, and removal of overhead lines in HFTD, HFRA, or buffer zone areas (except for any mileage being undergrounded and tracked separately as part of our Butte County Rebuild and other Community Rebuild efforts, barring External Factors).

We fell behind the Q2 year-to-date (YTD) target of completing 127 miles with 90.16 miles completed by June 30, 2023. The multiple storm/snow events in Q1 delayed work and prevented access to overhead and underground construction sites where work was otherwise ready to execute. Additionally, some underground projects have encountered land acquisition and county permitting delays. There are 221.8 miles in active construction and another 106.5 miles ready for construction. However, our catch back plan is in place, and we expect to be back on track with the original plan by September 30, 2023. Project Management team is partnering with construction teams to accelerate the completion of remaining OH miles and acceleration of UG civil construction.

**GH-04 10K Undergrounding:** This initiative involves the completion of 350 circuit miles of undergrounding work. The 350-circuit mile target includes: (1) undergrounding taking place as part of System Hardening; (2) undergrounding taking place as part of the Butte County Rebuild program (including a small volume of previously hardened overhead lines that are being placed underground) or other Community Rebuild programs; and (3) any other undergrounding work performed in HFTD, HFRA, Buffer Zone, or fire rebuild areas.

We fell behind the Q2 YTD target of completing 63 circuit miles with 26.93 circuit miles completed by June 30, 2023. The multiple storm/snow events in Q1 delayed work and prevented access to underground construction sites where work was otherwise ready to execute. Additionally, some underground projects have encountered land acquisition and county permitting delays. There are 209.9 miles in active construction between System Hardening (156.8), Butte Rebuild (52.4), and Community Rebuild (0.7), and another 101.0 miles ready for construction between System Hardening (94.1), Butte Rebuild (4.6) and

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<sup>6</sup> PG&E 2023 WMP at pp. 279, 287.

Community Rebuild (2.3). Our Project Management team is partnering with the construction teams to accelerate the underground civil construction work. Based on current construction schedules the program anticipates returning to plan by September 30, 2023.

**GH-05 System Hardening – Transmission:** This initiative involves the removal or replacement of 43 circuit miles of transmission conductor on lines traversing the HFTD areas or HFRA locations.

We fell behind the Q2 YTD target of completing 33 circuit miles with 26.5 circuit miles completed by June 30, 2023. The Drum-Rio Oso 115kV Rebuild (Phase 3) project Forecasted In-Service Date changed due to delays caused by the storms in the area earlier this year, causing sites to be inaccessible due to snow and road conditions. A catch back plan is in place that includes clearances being rescheduled for the Q3 and Q4 timeframe, when we anticipate this work will be back on schedule.

**GH-07 Distribution Protective Devices:** This initiative involves the installation and SCADA commissioning of 75 new SCADA protective devices (line recloser, Fuse Saver, or interrupter) to reduce Enhanced Powerline Safety Setting (EPSS) reliability impacts.

We fell behind the Q2 YTD target of 43 installations with 7 installations completed by June 30, 2023. The delay was due to winter storms that occurred in Q1 which impacted working conditions and caused resource constraints as crews were diverted to storm response work. The program was re-baselined during Q2 to adjust to the interim completion targets. A catch back plan is in place to work through all job stages, pre-commissioning, construction, and commissioning, by December 31, 2023.

**GM-03 HFTD-HFRA Open Tag Reduction – Distribution Backlog:** This initiative involves the reduction of 48% to the wildfire risk associated with the backlog of ignition risk tags in HFTD/HFRA locations.<sup>7</sup> This work will reduce the total risk units from 151.1 (as of January 1, 2023) by 72.5 risk units.

We fell behind the Q2 YTD target of 38.8 (25.7%) risk points with 30.9 (20.5%) risk points reduced as of June 30, 2023. This delay was due to the unprecedented winter storms, which caused resource constraints to execute the planned maintenance work. A catch back plan is in place and we anticipate being on track with the original target by September 30, 2023.

**PS-07 PSPS Customer Impact Reduction:** This initiative reduces PSPS impacts to 15,000 customers based on wildfire mitigation projects including, but not limited, to MSO replacements and undergrounded miles planned for 2023.

We fell behind the Q2 YTD target of reducing the impact to 2,388 customers with a reduction of 1,675 customers impacted by PSPS events, as of June 30, 2023. This work

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<sup>7</sup> Backlog is defined as the open ignition EC notifications known as of January 5, 2023, and found prior to Jan 1, 2023, in HFTD/HFRA locations.

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is tied to the miles of undergrounding completed and the number of MSO devices replaced/removed. The multiple storm/snow events in Q1 delayed work and prevented access to underground construction sites where work was otherwise ready to execute. The undergrounding program is accelerating work readiness activities for 2024 and beyond with estimating having recently completed 400 miles of system hardening work for 2023 and 2024 that will allow the program to build in some buffer against future delays. With this catch back plan in place, we forecast being on track with original target by September 30, 2023.

**VM-04 – Tree Removal:** This initiative involves the removal of 15,000 trees located in HFTD or HFRA, identified from our legacy EVM program.

We fell behind the Q2 YTD target of 2,274 trees with 933 trees removed by June 30, 2023. This was the result of delays in beginning this work due to the required changes to existing technology field guides that had to be completed prior to releasing work to the tree crews. We developed revised guidance and implemented change communication prior to work beginning in the field. VM is successfully implementing a catch back plan that will have a removal rate of over 400 trees per week starting in July and is forecasting to be back on target by August 30, 2023.

## **Implementation of PG&E's Latest Safety Culture Assessment**

PG&E's 2022 Safety Culture Assessment was issued by Energy Safety on May 8, 2023. The Safety Culture Assessment evaluated the personal and wildfire safety culture at PG&E through a workforce survey, management self-assessments, and interviews. The Safety Culture Assessment provided the following five recommendations for PG&E to act upon:

1. Execute our 2025 Workforce Safety Strategy with clearly defined tactics and SMART performance measurements/goals for leadership, and the addition of leading indicators and wildfire metrics. Execute the PG&E Leadership Development Program ensuring engagement from both senior leadership and frontline supervisors in the field.
2. Improve Safety communications to support achieving and maintaining a strong safety culture. Further develop Safety Enabling Systems to improve the quality of event investigations (with a focus on controls), continue to share event investigation results across the organization, and improve the hazard and near-miss reporting process to align expectations on what to report and when to report.
3. Build on current training plan, incorporating new training modalities and integrate training with peer-to-peer, grassroots learning activities. Incorporate new peer learning activities and topics into training and improve training based on feedback.
4. Mitigate risk exposure posed by interactions with the public by recognizing and taking action to mitigate risk exposure posed by interactions with the public including effective customer communication.
5. Mitigate impairment risk including fatigue management, distracted driving, and stress management.

On June 16, 2023, PG&E formally notified Energy Safety that it agreed to implement the findings and recommendations identified in the Safety Culture Assessment and committed to work with Energy Safety and its third-party contractor, National Safety Council, to facilitate their implementation.

During Q2, some of the actions PG&E completed to advance the implementation of the recommendations from the 2022 Energy Safety Culture Assessment included:

- Pursuant to recommendation #1:

- Our 2024 Workplan development is underway. Tactical Implementation Plan (TIP) actions have been added to drive inclusion of leading indicators and Wildfire Safety Metrics into the Safety plan.
- 83% of our Supervisors have taken at least one leadership class.
- A formal Leadership Development Program has been rolled out for Managers and Directors (separate from supervisor leadership training program).
- Our senior leaders are leading co-worker townhalls that include training on safety.
- We are executing formal succession planning and development goals for our teams.
- Pursuant to recommendation #2:
  - We developed a formal strategic communication plan to deploy the Serious Injury & Fatality Capacity/Learning Model (which includes identifying hazardous energy sources and essential controls before performing work) by engaging Service Center frontline teams and distributing the hazard energy wheel.
  - We developed a communication plan supporting the implementation of the Serious Injury & Fatality Prevention Field Guide which includes learning sessions with frontline coworkers, Grassroots Safety Teams, Field Safety Specialists, and the extended leadership team, and a meeting with the Supervisor Advisory Council.
  - We executed broad and targeted safety communications campaigns which include monthly safety connection videos, Safety Week, and 100-day Keys to Life.
  - Management completed five co-worker town halls in the second quarter.
  - We continue to drive cause evaluation process improvements in several areas including:
    - Standardizing and improving Cause Evaluation training including adding case studies to reinforce training effectiveness, expanding training duration from two to three days, and rolling out a formal Cause Evaluation Qualification process with defined requirements to achieve qualification.
    - The Cause Evaluation Standard and Procedure were updated as of May 1, 2023, and included: Extent of Condition and Extent of Cause process improvements and refreshed Cause Evaluator Roles and Responsibilities.
- Pursuant to recommendation #3:
  - Electrical Technical Training is currently delivering Rubber Glove refresher training. To date, we are 43% complete with a targeted full completion by the end of September 2023.
  - Grounding refresher training is in the analyze and design phase of curriculum and deployment strategy.



- A Gas technical refresher training is in the design and development phase for Lead Gas Service Representative and Gas Service Representative refresher training.
  - The Corporate Security Department continues to work with an external vendor to create a new field co-worker safety training video series to be delivered through virtual reality (V/R) headsets. Scenarios are currently being developed and refined via PG&E coworker input after they experience one of the selected outside vendor V/R training courses (an active shooter scenario). An additional employee input session is scheduled for 8/16/2023. Scenario filming is targeted to begin in September 2023.
  - The PG&E Grassroots Safety Initiative kicked off early June with a company-wide roundtable engaging over 100 grassroots chairs.
  - We subsequently hosted 12 internal benchmarking sessions in July. These benchmarking sessions will inform best practices and learnings that can be applied more broadly across the company.
  - We are developing the Charter for a new Grassroots Safety Council which will include grassroots safety team members from organizations across the enterprise. Once implemented, this new forum will facilitate organization-wide information sharing.
  - We stood-up and activated Training Alignment Committees for both Gas and Electric Operations. The intent of these committees is to bring Operations, Safety, Grassroots and Training together to ensure that the right training is provided to the right people at the right time. These committees review incident trends for short-term and long-term needs, discuss the frequency and population of current training offerings, and explore the effectiveness of training.
  - We continue to develop leaders in the utility through Lean training courses and Breakthrough Training provided by GAP International, to broaden thinking and facilitate exposure of efficiency opportunities.
  - 100% of the Senior Executive team have completed Breakthrough Training to improve their ability to successfully navigate through the difficult challenges we are facing.
- Pursuant to recommendation #4:
    - All PG&E Corporate Security Investigators are former law enforcement officers.
    - Following the addition of two new Corporate Security Investigators in July 2023, the Corporate Security Department has four full-time investigators embedded in the company's Vegetation Management Program. Their responsibilities are to respond to reports of threats and other hostile acts by members of the public toward PG&E Vegetation Management personnel.
    - The work of these four investigators is augmented by twelve regionally based Corporate Security Investigators, who respond to hostile acts by

members of the public across all PG&E's functional areas. Corporate Security Investigator responsibilities include:

- Interact directly with members of the public who have demonstrated hostility toward PG&E coworkers.
- Provide advice and training to PG&E field coworkers and management on how to minimize and mitigate public hostility. And when necessary, work with law enforcement and/or contract security services to mitigate public threats against field coworkers.
- Everbridge and LiveSafe continue to be used to provide bulletins and geofence warnings about reported hazards, including crime incidents, which may impact field crews. Corporate Security is continuing to train field personnel in the use of LiveSafe to provide awareness of properties where threats and hostile acts have previously occurred. LiveSafe use is an agenda topic for a Vegetation Management meeting scheduled for August 16, 2023.
- Pursuant to recommendation #5:
  - April 2023 was Distracted Driving awareness month. The activities completed include:
    - Executed a five-week communication plan to all employees which included weekly messages, videos, posters, and activities for all leaders and employees to discuss, share, and learn.
    - Offered participation in the National Safety Council's Combating Distractions webinar to all employees.
    - Promoted Distracted Driving training awareness.
  - We created and shared Safety Awareness communications to highlight our efforts to expand use of technology solutions to reduce distractions from company provided electronic devices.
  - We initiated development of a new Safe Driver Behavior Policy.
  - We developed Request for Information (RFI) questions to support the decision-making process to determine the optimal solution for Artificial Intelligence based in-cab cameras. The RFI was released in July.
  - We are continuing to ramp-up implementation of our TRUCE cell phone blocking solution – as of 6/28 we added an additional 606 new users.
  - We are developing a company-wide Fatigue Management Standard.

As of May 18, 2023, Decision 23-05-009 was issued, officially closing the Safety Order Instituting Investigation 15-08-019 and adopting the Safety Policy Division's Modified Staff Report. The Modified Staff Report document is now the proceeding guiding document going forward. The Modified Staff Report requests additional information on seventeen of the original NorthStar recommendations. The proceeding is to be managed via Advice Letters with the first Advice Letter filed on July 18, 2023 and including responses to the data requests referenced above. Future bi-annual letters will follow as required, until all remaining Commission questions are addressed, and recommendations closed.

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As we are in the final stage of closure for the Safety OII proceeding quarterly reports to the Commission are no longer required since they have been replaced by the Advice Letter process. The previous quarterly reports outlined our progress towards implementing all recommendations by NorthStar Consulting Group from their assessment of our safety culture for the California Public Utilities Commission (Commission) in the May 8, 2017, NorthStar Report and the 2019 First Update. On September 16, 2022, we received the NorthStar Final Update and provided opening comments to the Commission on October 7, 2022, and reply comments on October 21, 2022.

We remain dedicated to continually improving our safety culture and will continue to provide further information on our progress each quarter to Energy Safety, as well as our semi-annual updates to the Commission.

### **Board of Directors' Safety and Nuclear Oversight Committee – Q2 2023 Update**

The PG&E Board of Directors' Safety and Nuclear Oversight (SNO) Committee is an important part of our Board-level oversight of safety, enterprise risk, and other matters. A SNO Committee also concurrently exists at the PG&E Corporation Board (collectively referred to as the SNO Committees).

This section describes the oversight activities of the SNO Committees and is organized as follows:

- 1) Safety Topics Covered in SNO Committees' Meetings; and
- 2) Recommendations of the SNO Committees and Management Implementation.

### **Safety Topics Covered in SNO Committee Meetings**

During the second quarter of 2023, the SNO Committees held a joint meeting with the Audit Committees and a stand-alone meeting on May 16.

During the May joint meeting, the SNO and Audit Committees reviewed safety performance, including aviation safety. The Committees also reviewed the 2022 Safety Culture Assessment from Energy Safety and the 2023 WMP. Finally, the Committees received an update on business continuity and information technology disaster recovery.

During the May stand-alone meeting, the SNO Committees reviewed safety performance, including nuclear safety. The Committees also discussed risks associated with emergency preparedness and response, transmission system-wide blackout, and data management and records and information management.

### **Recommendations of Boards of Directors' Safety Committee Meetings During Q2 2023**

There is an ongoing dialogue between the Chair of the SNO Committees (which includes feedback of the Committees members) and management, with frequent engagement around the implementation of the workforce safety strategy, safety performance updates, and corrective actions in the normal course of business. In addition, the SNO Committees made the following specific, safety-related recommendations to management during the second quarter of 2023:

- To use weather station data to inform PG&E's wildfire risk models and asset inspections;
- To evaluate how the anticipated future utilization of unmanned aerial vehicles and drones can be incorporated into aviation strategy assessments; and
- To perform annual weatherization inspections on PG&E's generation assets.

### **Management Implementation of Recommendations Described in Q1 2023 Quarterly Notification**

The following summarizes actions that management has taken to implement guidance and direction from the SNO Committees that was described in our Quarterly Notification for the first quarter of 2023.

Recommendation # 1: Provide the SNO Committee with an update on high-risk audit findings related to aviation safety incidents and what is being done to remediate these findings.

Management's response: All high-risk audit findings have been addressed and remediated. Aviation Services implemented a safety management governance system covering pilot records, financial accounting tools and flight risk mitigation. On contractor management, the team put in place a scheduling process that is compliant with the post-job evaluation requirements of the Contractor Safety Standard (SAFE-3001S). In relation to helicopter pilot qualification documentation, all inconsistencies have been addressed via new records audit practices and consolidation of documentation storage. An update was provided to the Joint Audit/SNO Committee in May. Additionally, results of the recent PG&E Safety Excellence Management System (PSEMS) independent assessment will be shared with the Committee accordingly. The PSEMS results indicate that Aviation Services has a comprehensive safety management system. All observations and findings are associated with new PSEMS requirements and have been remediated since the completion on the audit.

Recommendation # 2: Report back on how acceptable quality levels are built into PG&E's contract structure for work performed by service providers.

Management's response: PG&E includes standard provisions in our contracts to ensure that acceptable quality levels are delivered via PG&E's contract structure. Generally, these provisions place primary responsibility for quality with the contractor, enable PG&E

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to check and audit the quality of work, and ensure that contractors bear rework costs needed to ensure quality delivery. Across the company's services and materials contracts, these provisions include that:

- the contractor is required to comply with all applicable laws and regulations associated with the work;
- the contractor is required to provide PG&E free access to the work at all times;
- PG&E has the right to audit work, work practices, tools, equipment and materials (and the contractor must take immediate corrective action of any findings PG&E identifies);
- PG&E's failure to make inspections or test does not relieve our contractors of the responsibility to complete and guarantee the work;
- all standard specifications, codes, and requirements of organizations (e.g., American Society for Testing & Materials, American Institute of Steel Construction) are incorporated by reference;
- contractors' designs must be approved in writing by PG&E;
- shop detail drawings must be approved by PG&E and the contractor must arrange for PG&E to inspect fabrication when materials are supplied;
- any changes to designs and/or deviations from requirements must be identified in writing and receive PG&E's written approval;
- materials and workmanship must be new and first class in every respect;
- the contractor warrants design, equipment, and workmanship and must correct any warranty breaches; and
- rejected work and/or all defects must be remedied at contractor's sole expense.

As needed, we also add specific quality requirements tailored to the type of work being performed into Contract Work Authorizations.

### **Conclusion**

We appreciate the opportunity to provide these updates on our progress implementing our WMP, progress implementing our latest Safety Culture Assessment, and progress implementing the SNO Committees' recommendations from the previous quarter. If there are any questions, please contact Wade Greenacre at [Wade.Greenacre@pge.com](mailto:Wade.Greenacre@pge.com).

Sincerely

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/S/

Meredith Allen  
Vice President, Regulatory Affairs

Appendix 1 - 2023 WMP Initiative Commitments

cc: Service Lists I.19-09-016 and I.15-08-019

**APPENDIX 1: 2023 WMP Initiative Commitments**

Plan Area	2023 WMP Commitments <sup>8</sup>			
A. Situational Awareness and Forecasting	SA-01 - AI in Wildfire Cameras	SA-02 - Line Sensor - Installations	SA-03 - EFD and DFA Reporting	SA-04 - FPI and IPW Modeling - Revision Evaluation
	SA-05 - Evaluate FPI and IPW Modeling enhancements in 2023 - 2025			
B. Grid Design, Operations and Maintenance	AI-01 - Retainment of Inspectors and Internal Workforce Development	AI-02 - Detailed Inspection Transmission – Ground	AI-03 - Develop Distribution Aerial Inspections program	AI-04 - Detailed Inspection Transmission – Aerial
	AI-05 - Detailed Inspection Transmission – Climbing	AI-06 - Perform transmission infrared inspections	AI-07 - Detailed Ground Inspections - Distribution	AI-08 - Supplemental Inspections - Substation Distribution
	AI-09 - Supplemental Inspections - Substation Transmission	AI-10 - Supplemental Inspections - Hydroelectric Substations and Powerhouses	AI-11 - Filling Asset Inventory Data Gaps	GH-01 - System Hardening - Distribution
	GH-02 - Evaluate Covered Conductor Effectiveness	GH-03 - Evaluate and Implement Covered Conductor Effectiveness Impact on Inspections and Maintenance Standards	GH-04 - 10K Undergrounding	GH-05 - System Hardening - Transmission
	GH-06 - System Hardening - Transmission Shunt Splices	GH-07 - Distribution Protective Devices	GH-08 - Surge Arrestor - Removals	GH-09 - Distribution Line Motor Switch Operator (MSO) - Replacements
	GH-10 - Non-Exempt Expulsion Fuse - Removal	GM-01 - Asset Inspections - Quality Assurance	GM-02 - HFTD-HFRA Open Tag Reduction - Transmission	GM-03 - HFTD-HFRA Open Tag Reduction – Distribution Backlog
	GM-04 - HFTD-HFRA Open Tag Reduction - Backlog Elimination - 3 Year Plan	GM-06 - EPSS - Down Conductor Detection (DCD)	GM-07 Updates on EPSS Reliability Study	

<sup>8</sup> Red dotted outline = Initiatives with no target or milestones due by December 31, 2023. Status color: Blue = “Completed on Time” - pending validation; Green = “On Track” – meets Target; Amber = “At Risk” - not on track to meet Target but has a catch back plan; Red = “Off Track / Missed” – not meeting Target and does not have a catch back plan; Gray = Initiative has not started yet.

Plan Area	2023 WMP Commitments – Continued			
C. Vegetation Management and Inspection	VM-01 - LiDAR Data Collection - Transmission	VM-02 - Pole Clearing Program	VM-03 - Focused Tree Inspection Program	VM-04 - Tree Removal
	VM-05 - Defensible Space Inspections - Distribution Substation	VM-06 - Defensible Space Inspections - Transmission Substation	VM-07 - Defensible Space Inspections - Hydroelectric Substations and Powerhouses	VM-08 - Vegetation Management – Quality Verification
	VM-09 - Constraint Resolution Procedural Guideline			
D. Public Safety Power Shut off	PS-01 - Evaluate enhancements for the PSPS Transmission guidance	PS-02 - Evaluate incorporation of approved IPW enhancements into the PSPS Distribution guidance	PS-06 - Provide 12,000 new or replacement portable batteries to PG&E customers at risk of PSPS or EPSS	PS-07 - PSPS Customer Impact Reduction
E. Emergency Preparedness Plan	EP-01 - Complete PSPS and Wildfire Tabletop and Functional Exercises	EP-02 - Maintain all hazards planning and preparedness program in 2023 – 2025	EP-04 - Expand all hazards planning to include additional threats and scenarios in 2023 – 2025	EP-06 - Review, and revise the CERP and 2 Wildfire Related Annexes on a yearly basis
F. Community Outreach and Engagement	CO-01 - Community Engagement – Meetings	CO-02 - Community Engagement - Surveys		