

May 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 on September 8, 2021 by Energy Safety.<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

---

<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 first quarter (Q1) of 2023, pursuant to the statutory requirements and the Compliance Operational Protocols.<sup>2</sup>

### **Q1 2023 Update**

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

PG&E submitted its WMP on March 27, 2023 and a corrected version on April 6, 2023.<sup>3</sup> Table 1 of our Q1 2023 QDR, which is being submitted concurrently with this Quarterly Notification, provides progress updates for 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, 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>

---

<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 the 11 ten-year objectives, as there will be limited-to-no updates for these in 2023.

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

**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	0	3	1	1	0	<b>5</b>
B. Grid Design, Operations and Maintenance	0	12	1	14	0	<b>27</b>
C. Vegetation Management and Inspections	1	7	1	0	0	<b>9</b>
D. Public Safety Power Shut off	0	4	0	0	0	<b>4</b>
E. Emergency Preparedness Plan	0	3	0	1	0	<b>4</b>
F. Community Outreach and Engagement	0	2	0	0	0	<b>2</b>
<b>Total</b>	<b>1</b>	<b>31</b>	<b>3</b>	<b>16</b>	<b>0</b>	<b>51</b>

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

In this section, we provide information regarding the initiative commitments that have been designated “Delayed” as of the end of Q1. 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 status.

Note that the unprecedented winter storms caused delays for several the initiative commitments identified below. In particular the repeated atmospheric rivers caused unsafe working conditions, prevented access to equipment and construction sites, and required crews and resources to be diverted to restoration work rather than the planned wildfire mitigation work. Despite this, we have implemented catch back plans and forecast dates for when we anticipate each initiative commitment will be back on track to the original plan.

**AI-02 Detailed Inspections Transmission – Ground:** This initiative involves the completion of detailed ground inspections on 27,000 transmission structures in PG&E's asset registry as of January 1, 2023, in High Fire Threat District (HFTD) areas or High Fire Risk Areas (HFRA), barring External Factors.

We fell behind the Q1 internal target of completing 6,000 transmission ground inspections with 4,071 inspections completed by the end of March. Delays with the execution of this work were driven by unprecedented winter storms. However, the System Inspectors have now been released from storm support and will focus on performing transmission ground inspections as weather and right of way (ROW) access conditions improve. Additionally, we will bring back the ARB contract inspectors on a full-time basis to increase available resources, if necessary. With this renewed focus and resource availability, we anticipate that this work will be back on track by April 30, 2023.

**AI-07 Detailed Ground Inspections – Distribution:** This initiative involves the completion of detailed ground inspections on 234,648 distribution poles, which were identified in PG&E's asset registry as of December 27, 2022, in HFTD areas or HFRA locations, barring External Factors.

We fell behind the Q1 internal target of 5,000 with 58 distribution ground inspections completed by the end of March. Delays with the execution of this work were driven by the unprecedented winter storms. However, the catch back plan is in place and is targeted to have this work back on track by the end of Q2. The System Inspectors are now reporting to their respective region after completing their training in March. The regions with access and favorable weather conditions will be prioritized, including prudently and safely working longer days and weekends. These extra hours worked will allow this initiative to get back on track after the winter storms.

---

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

**AI-08 Supplemental Inspections - Substation Distribution:** This initiative involves the completion of supplemental inspections on 52 distribution substations in HFTD areas or HFRA, barring External Factors.

We fell behind the Q1 internal target of completing 14 inspections with seven substation distribution inspections completed by the end of March. Delays with the execution of this work were the result of the unprecedented winter storms. Consistent with the initiative commitment requirements, units are completed when all three components of inspections (ground, aerial, and infrared) are completed. We are devoting additional resources to this work and anticipate we will be back on track by June 30, 2023, barring further inclement weather conditions. The weather will be monitored closely and flights and inspections will be planned for areas that are available for inspection, as soon as possible.

**AI-09 Supplemental Inspections - Substation Transmission:** This initiative involves the completion of supplemental inspections on 34 transmission substations in HFTD areas or HFRA, barring External Factors.

We fell behind the Q1 internal target of completing 15 inspections with three substation transmission inspections completed by the end of March. Delays with the execution of this work were driven by the unprecedented winter storms. Consistent with the initiative commitment requirements, units are completed when all three components of inspections (ground, aerial, and infrared) are completed. We are devoting additional resources to this work and anticipate we will be back on track by June 30, 2023, barring further inclement weather conditions. The weather will be monitored closely and flights and inspections will be planned for areas that are available for inspection, as soon as possible.

**AI-10 Supplemental Inspections - Hydroelectric Substations and Powerhouses:** This initiative involves the completion of supplemental inspections on 41 Hydroelectric Generation Substations and Powerhouses within HFTD areas or HFRA, barring External Factors.

We fell behind the Q1 internal target of completing 14 inspections with one hydroelectric substation inspection completed by the end of March. Delays with the execution of this work were driven by the unprecedented winter storms. Consistent with the initiative commitment requirements, units are completed when all three components of inspections (ground, aerial, and infrared) are completed. We are devoting additional resources to this work and anticipate we will be back on track by June 30, 2023, barring further inclement weather conditions. The weather will be monitored closely and flights and inspections will be planned for areas that are available for inspection, as soon as possible.

**AI-11 Filling Asset Inventory Data Gaps:** This initiative involves the population of missing age data in the Asset Registry (using “Installation Date” data element as a proxy) to 90% weighted average across risk prioritized distribution and transmission equipment.

We fell behind on key milestones for this initiative due to delays in obtaining the project charter, which was scheduled for completion by the end of March. The project charter is needed prior to setting up detailed project plans and moving forward with a proof of

concept or this work. We are expecting to have the project charter approved in early April. Once approved, we will be able to create a baseline project plan for the proof-of-concept phase. Despite this delay, we anticipate this work being back on track by the end of April.

**EP-01 Complete PSPS and Wildfire Tabletop and Functional Exercises:** This initiative involves the completion PSPS and Wildfire Tabletop and Functional Exercise annually in compliance with the guiding principles of the Homeland Security Exercise Evaluation Program (HSEEP).

We fell behind on key milestones due to the Functional Exercise being rescheduled from week of March 27 to week of May 8 due to storm response for the unprecedented winter storms. We have rescheduled the exercise, sent out updated invitations, and updated our exercise documents. These corrective actions have been completed and we anticipate this delayed initiative will be back on track by the end of May and this work will be completed timely.

**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 Q1 internal target of completing 15 circuit miles with 13.6 circuit miles completed by the end of March. The root cause of this delay was the unprecedented winter storm events which prevented safe access to construction sites where work is otherwise ready to execute and made for unsafe working conditions. The containment plan is to return the construction crews and QA team safely as the need for storm response wound down. There are 160 miles of system hardening in active construction and 73.2 ready for construction. Program/project teams will actively work with construction partners to safely re-schedule the resumption of work. The program anticipates being back on target by the end of April.

**GH-04 10K Undergrounding:** This initiative involves the completion of 350 circuit miles of undergrounding work, barring External Factors. 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 Q1 internal target of completing 7 circuit miles with 3.1 circuit miles completed by the end of March. The root cause of this delay was the unprecedented winter storm events which prevented safe access to underground construction sites where work is otherwise ready to execute and made for unsafe working conditions. The containment plan is to re-deploy the construction crews and QA team safely after the

need for storm response diminishes. The program anticipates being back on target by the end of April.

**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.

We fell behind the Q1 internal target of completing 12 circuit miles with 8.6 circuit miles completed by the end of March due to both a 6-week safety shutdown and the unprecedented winter storms. However, construction activities have now resumed and are on track to be completed in April. A catch back plan has been implemented which will deploy additional resources to this work and we remain on track to meet our initiative commitment by the end of the year.

**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, barring External Factors.

We fell behind the Q1 internal target of three installations with no installations completed by the end of March. This delay is the result of the unprecedented winter storms which caused crew resources to be diverted to storm restoration work. A catch back plan is in place to work with the construction teams on providing additional resources and this work is anticipated being back on track by the end of Q2.

**GH-08 Surge Arrestor – Removals:** This initiative involves the removal of 663 non-exempt surge arrestors at identified locations in Tier 2 and Tier 3 HFTD or HFRA areas where known grounding issues exist, barring External Factors. If no non-exempt surge arrestor is identified at a location during pre-field work, the unit will be resolved, and the notification will be canceled. Canceled notifications will count towards this initiative commitment.

We fell behind the Q1 internal target of 135 removals with 97 surge arrestor units removed by the end of March. Delays with the execution of this work were driven by the unprecedented winter storms. A catch back plan is in place to work with construction team to reschedule and anticipate being back on target the end of May.

**GH-10 Non-Exempt Expulsion Fuse – Removal:** This initiative involves the removal of non-exempt expulsion fuses/cutouts from 3,000 fuse locations identified on distribution poles in HFRA or HFTD areas, barring External Factors.

We fell behind the Q1 internal target of 90 fuses removed with 71 removals completed by the end of March. The delay was driven by crew resources being diverted to storm restoration work as a result of the unprecedented winter storms. A catch back plan is in place to provide the resources needed to get this work back on track by the end of April.

May 1, 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<sup>7</sup> of ignition risk tags in HFTD/HFRA locations. This would reduce the total risk units from 151.1 (as of January 1, 2023) by 72.5 risk units, barring External Factors.

We fell behind the Q1 internal target of 9.47% risk reduction, with 4.2% of wildfire risk reduction achieved by the end of March. This delay was the result of our response to the unprecedented winter storms, which required the use of the resources that had been intended to execute this mitigation work. However, we have implemented a catch back plan that will provide the resources needed to complete this work and get this initiative back on track by the end of July.

**GM-06 EPSS – Down Conductor Detection (DCD):** This initiative involves making capable for Down Conductor Detection (DCD) 500 protective device controllers or relays that protect distribution primary overhead conductor that travels through EPSS buffer areas and HFRA, barring External Factors. This count includes protection devices that, due to repair status, cannot receive the DCD settings, and circuit reconfiguration resulting in descoping of device.

We fell behind the Q1 internal target of making capable 142 devices/relays, with 60 devices/relays made capable by the end of March. This delay was due to the impacts of the unprecedented winter storms and to early material delays. We have set aside resources and implemented a catch back plan with an anticipated recovery date of May 1st, weather permitting. As the weather improves, teams will continue to perform installations in all locations that become accessible.

**SA-01 AI in Wildfire Cameras:** This initiative involves the enablement of AI processing of Wildfire Camera Data to provide automated wildfire notifications in the internal PG&E monitoring tool (Wildfire Incident Viewer – WIV).

We fell behind on this work due to an unexpected delay resulting from a contract change order with the Regents of the University of California (on behalf of the University of California, San Diego). We are actively working with our internal Sourcing team to resolve the contract issue and have a new contract executed by April 17, 2023. Despite this delay, we anticipate we will meet the full deployment initiative commitment date of June 15, 2023.

---

<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.



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

PG&E's most recent Safety Culture Assessment was issued by Energy Safety on October 6, 2021. The Safety Culture Assessment evaluated the personal and wildfire safety culture at PG&E through the use of a workforce survey, management self-assessments, and interviews. The Safety Culture Assessment provided the following six recommendations for PG&E to act upon:

1. Build leadership skills and ensure frontline supervisors are demonstrating those skills regularly in the field to improve the work environment for wildfire and personal safety.
2. Establish a governance structure to ensure effective implementation and tracking of the 2025 Workforce Safety Strategy.
3. Execute the strategy with active leadership by senior executives to ensure implementation.
4. Leverage the new safety management system to improve the flow of information up, down, and across the organization and provide a single mechanism for reporting and tracking wildfire concerns.
5. Increase engagement on the safety culture assessment within the workforce supporting wildfire mitigation initiatives.
6. Recognize and take action to mitigate the safety concerns posed by interactions with certain discontented members of the public.

On October 22, 2021, PG&E formally notified Energy Safety that it agreed to implement all the findings and recommendations identified in the Safety Culture Assessment.

During Q1, some of the actions PG&E completed to advance the implementation of the recommendations from the 2021 Energy Safety Culture Assessment include:

- Pursuant to recommendation # 1, we hosted seven regional townhalls for our frontline leaders. This included a focus on our Keys to Life and supervisor development through the Leadership Development program.
- Pursuant to recommendation # 2, we developed Tactical Implementation Plans (TIPs) to help execute each key strategy. These TIPs are reviewed on a weekly and monthly basis through our Lean operating system.
- Pursuant to recommendation # 2, any gaps to target or at risk/off track actions for these plans are discussed during these operating reviews along with the plan to recover, where applicable.
- Pursuant to recommendation # 3, our senior officers participate in the weekly safety operating review where the Safety TIPs are reviewed. The Serious Incident and Fatality, Days Away and Restricted Time and Preventable Motor Vehicle Incident TIPs are also reviewed with the senior officer team at the Monthly Operating Review.

- Pursuant to recommendation # 3, safety strategy plans are shared with the Board's Safety and Nuclear Oversight Committee as part of the materials for every Committee meeting.
- Pursuant to recommendation # 4, our Lean operating system—and its daily, weekly, and monthly cadence—provides the mechanism to share and cascade safety, inclusive of wildfire safety related issues and best practices. Additionally, coworkers report concerns, including wildfire concerns, to our Corrective Action Program (CAP) for resolution.
- Pursuant to recommendation # 5, the preliminary response rate for the Wildfire Safety Culture Assessment survey showed a 75% increase in response rate for coworkers. Furthermore, we are leveraging Daily Operating Reviews to improve the response rate for both internal employees and contractors.
- Pursuant to recommendation # 6, the following actions were taken to address public safety concerns with discontented members of the public:
  - An Incident Management Team was developed in Oakland to establish best practices for coworker personal safety. These best practices have been consolidated into a playbook and are being expanded to additional areas that have shown elevated third-party threat levels.
  - We are also working on the following mitigations:
    - i. Increasing personal security support for our field crews with day and night coverage, including a phone line to request for personal security support – this includes private security and off-duty police officers;
    - ii. Piloting enhanced Personal Protective Equipment which includes a “Ballistic Vests” pilot across territory; and
    - iii. Streamlining reporting and broadening the communications for incidents where a coworker is threatened to ensure all potentially impacted coworkers have the information.

Additionally, included as Attachment A, we are providing the Safety Culture and Governance quarterly report detailing our progress towards implementing the 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. These comments provide detail on our implementation of NorthStar's safety culture recommendations.

We remain dedicated to continually improving our safety culture and will continue to provide further information on our progress each quarter.

### **Board of Directors' Safety and Nuclear Oversight Committee – Q1 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 first quarter of 2023, the SNO Committees held a meeting on February 15th.

- In the February 2023 meeting, the SNO Committees reviewed safety performance, including nuclear safety. The Committees also reviewed the 2023 WMP. Finally, the Committees received an update on dam safety and asset protection.

### **Recommendations of Boards of Directors' Safety Committee Meetings During Q1 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 first quarter of 2023:

- To 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; and
- To report back on how acceptable quality levels are built into PG&E's contract structure for work performed by service providers.

### **Management Implementation of Recommendations Described in Q4 2022 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 fourth quarter of 2022.

- Recommendation # 1: Revisit the topic of dam safety, including characteristics of dams that have recently failed, and perform analysis around the sensitivity of PG&E's dams to extreme weather.

Management's response: PG&E provided an analysis of the capacity of PG&E's dams in terms of flood frequency and shared with the SNO Committee at the February 15, 2023 SNO Committees meeting. The presentation included information on the characteristics of non-PG&E-owned dams that have failed that PG&E evaluated for application to the PG&E portfolio and summarized actions taken to address lessons learned from those failures.

Recommendation # 2: To improve the planning of WMP work and enable effective and efficient execution of PG&E's wildfire mitigation work.

Management's response: A twofold approach will be taken to improve our WMP work:

1. The formulation of future WMP initiative commitments will be done in a manner to ensure that there is a clear line of sight to getting these completed in the year promised supported by an informed resource management plan.
2. The WMP Planning and Business Plan Deployment cycle are synced up so that resource considerations (qualified resources and dollars) and seasonality of the work is factored into the work plan, providing sufficient lead time to allow the execution organization flexibility to bundle work, when and where appropriate.

Recommendation # 3: To improve and clarify the expectations on safe work practices for contractors.

Management's response: PG&E has developed and published an enterprise contractor safety stand down and probation procedure that clearly defines when safety intervention is necessary, what type of intervention to implement, and to what extent.

## **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).

May 1, 2023

Sincerely

\_\_\_\_\_/S/  
Meredith Allen  
Vice President, Regulatory Affairs

Appendix 1 - 2023 WMP Initiative Commitments  
Attachment A - Safety and Culture Governance Quarterly Report

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 the end of 2023. Status color: Blue = “Completed on Time” - pending validation; Green = “On Track” – meets external Target; Amber = “At Risk” - not meeting external Target and has an approved catch back plan; Red = “Off Track / Missed” – not meeting external Target and does not have an approved 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		

## **Attachment A**



---

**PACIFIC GAS AND ELECTRIC COMPANY**  
**SAFETY CULTURE AND GOVERNANCE QUARTERLY REPORT**  
**NO. 18-2023**  
**IN COMPLIANCE WITH CPUC DECISION 18-11-050**  
**SUBMITTED APRIL 28, 2023**

---



PACIFIC GAS AND ELECTRIC COMPANY  
SAFETY CULTURE AND GOVERNANCE QUARTERLY REPORT  
NO. 18-2023  
IN COMPLIANCE WITH CPUC DECISION 18-11-050  
SUBMITTED APRIL 28, 2023

TABLE OF CONTENTS

I.	Introduction .....	1
II.	Q1 SIF Actual Review.....	3
III.	Conclusion.....	3
IV.	Sustainability Update .....	5
	A. Ongoing Execution and Sustainability .....	5
	B. Additional NorthStar Recommendations .....	8
	C. Changes to PG&E Execution of Plans .....	11
V.	Board of Directors Reporting .....	14
	A. BOD and SNO Committee Meeting Minutes .....	14
	B. Boards of Directors Safety-Related Training .....	15
VI.	Safety Strategy and Performance Update .....	15
	A. Safety Strategy Update .....	15
	B. Safety Metrics .....	23
	C. Additional Analysis: .....	24
VII.	Conclusion.....	27

**PACIFIC GAS AND ELECTRIC COMPANY  
SAFETY CULTURE AND GOVERNANCE QUARTERLY REPORT  
NO. 18-2023  
IN COMPLIANCE WITH CPUC DECISION 18-11-050**

**I. Introduction**

Pacific Gas and Electric Company (PG&E or the Company or the Utility) submits this eighteenth Safety Culture and Governance Quarterly Report (Report) in compliance with California Public Utilities Commission (CPUC or Commission) Decision (D.) 18-11-050.

This Report provides an update on PG&E's ongoing execution and sustainability of NorthStar's recommendations for the first quarter of calendar year 2023. Additionally, this Report discusses the Board of Directors (BOD) safety training, education, and support for this same time-period, and the 5-Year Safety Strategy and associated safety performance metrics.

**Everyone and Everything is Always Safe**

PG&E's safety stand is "Everyone and Everything Is Always Safe." This includes our coworker and contractor workforce, as well as the public. We remain committed to building an organization where every work activity is designed to facilitate safe working conditions and every member of our workforce is encouraged to speak up if they see an unsafe or at-risk condition with the confidence that their concerns and ideas will be heard and addressed. We strive to be the safest, most reliable gas and electric company in the United States.

**Leadership Changes**

On February 10, Sumeet Singh was announced as PG&E's new Executive Vice President, Operations and Chief Operating Officer (COO) effective March 1. Adam Wright, the previous COO, left PG&E at the end of February. In Sumeet's new role as COO, he will continue to have direct reporting responsibility for the Safety & Health organization which will allow him to ensure strong coordination between Enterprise Safety & Health and Operations.

- On February 27, the following senior leadership changes supporting Sumeet Singh's move to COO were announced: Matt Hayes, as Vice President, Enterprise Health and Safety and the Academy is succeeding Sumeet Singh as the company's Chief Safety Officer. Matt assumed his new role as of January 1, 2023. Matt was previously the Senior Director of Organizational Effectiveness and Training at Diablo Canyon Power Plant (DCPP). Matt will continue reporting to Sumeet Singh Chief Operating Officer. In this role, Matt will continue his leadership role responsible for maintaining the company's safety standards, managing field safety operations, implementing PG&E's Safety Excellence Management System, and leading contractor safety, occupational safety and health programs, transportation safety and oversight of enterprise Corrective Action Program (CAP) and the Academy.
- Stephen Cairns, VP and Chief Audit Officer, is our interim Chief Risk Officer (CRO) reporting to our Chief Financial Officer while a national search for a new enterprise CRO is being completed.

- We also created a new position, Senior Vice President, Wildfire & Emergency Operations (WEO) reporting to Sumeet Singh. This role will oversee the Emergency Preparedness & Response organization, the Enhanced Powerline Safety Settings (EPSS) program, the Public Safety Power Shutoff (PSPS) program and the Wildfire Risk organization. After conducting an expedited competitive interview process for this position, Mark Quinlan was announced as the new SVP of WEO effective March 21, 2023.
- Previously, Mark Quinlan was our Vice President, Electric System Operations (ESO) – a role that included leading our Public Safety Power Shutoff and Enhanced Powerline Safety Settings programs, both of which have proven to be extremely effective wildfire mitigations. Mark has been with PG&E for nine years and has more than three decades of experience in the electric industry.
- The new WEO organization discussed above will include the Wildfire Preparedness & Operations organization currently led by Andy Abranches, the Enhanced Powerline Safety Settings organization led by Dave Canny, the Emergency Field Operations organization led by Robert Cupp and the Public Safety Power Shutoff Management organization led by Shawn Holder.
- Russ Prentice will continue in his role as the Vice President, Enterprise Risk Management. In this role, Russ now reports to Stephen Cairns as the interim Chief Risk Officer and is responsible for Risk Validation, and Enterprise and Operational Risk Management. This includes the Compliance & Operational Assurance organization that previously reported through the Operations team. This team performs validation of our key risk and compliance mitigations.
- James Randolph, PG&E Academy Lead, moved from the Operations Support organization and is now reporting to Matt Hayes's safety organization. This change is intended to help align workforce training and qualifications to our safety management system.

With the leadership changes and additions announced above, Sumeet Singh will continue in his direct reporting relationship to the CEO. However, the CRO role will move to Stephen Cairns and eventually the company's new CRO.

### **Business Highlights**

The Utility's True North Strategy was defined in 2022 and is focused on delivering safety outcomes. The safety component of this strategy is captured by the scope of the PG&E Safety Excellence Management System (PSEMS) and includes workforce (coworker and contractor), public and process safety and asset management. In 2023, in addition to deploying PSEMS, the Utility is focused on strategic programs to address the highest safety risk which include: Keys to Life, Serious Injury and Fatality (SIF) Investigation, Contractor Safety, Transportation Safety, Fatigue Management, Ergonomics, Public Safety, Organizational Culture and Safety Mindset, Personal Safety and ECAP. Future 2023 reports will include safety strategy updates based upon these categories.

The Utility's safety metrics include the number of incidents which are those resulting in a fatality, life threatening or life altering injury (SIF-A). The Utility also tracks the rate of incidents that had the potential to result in a serious injury (SIF-P) per 200,000 hours worked. In 2023 Q1, the Utility had 3 SIF-A injuries, which resulted in 1 fatality and 2 serious injuries. The 2023 Q1 SIF-P count

includes 4 employee SIF-P incidents and 6 contractor SIF-P incidents for a total of 10.

Additionally, the Utility measures Days Away, Restricted, or Transferred (DART) and Preventable Motor Vehicle Incidents (PMVI). For 2023 Q1, the Utility's DART rate was 0.50, which was 34 percent lower than 2022 year-end and its lowest rate in the past five years. The Utility's 2023 Q1 PMVI rate was 2.94, which was 19 percent higher than 2022 year-end with the atmospheric river events and persistent storm conditions being contributing causes to the increase in PMVI rate.

## **II. Q1 SIF Actual Review**

On January 7, 2023, two contract vegetation management employees with Mountain F. Enterprises were involved in a vehicle rollover incident when their bucket truck lost control. The driver was fatally injured, and the passenger suffered serious injuries. Both passengers were wearing seat belts. Our immediate actions included a focus on four areas: pre-job briefings, pre-trip inspections, operator qualifications and validation. The Root Cause Evaluation was completed by February 8, 2023.

On January 31, 2023, a Vegetation Management inspector coworker sustained fatal injuries when his rental vehicle dislodged from a jack and dropped while he was changing a tire. Our immediate actions included communicating the standard and expectation that coworkers shall not attempt to repair their own vehicle and shall call Fleet or Rental Central to request service. We also confirmed 24-hour dedicated resources were available from Fleet and Rental Central to support.

On March 22, 2023, two contract coworkers with Clear Path Utility Solutions were traveling in the Santa Cruz area when they came upon a downed tree blocking the roadway. They exited their vehicle to assess the situation. During the time outside the vehicle, a gust of wind caused several additional trees to fail. During that time, one of the contract coworkers was struck by a four-inch diameter Coastal Redwood branch in the head which knocked him to the ground. The contract coworker sustained a serious injury and was transported by emergency services to a local hospital.

## **III. Conclusion**

Consistent with PG&E's previous quarterly Reports, the report includes an update on the 5-Year Safety Strategy progress, including first quarter 2023 safety performance. PG&E also certifies the ongoing execution of NorthStar's recommendations and provides comments on recommendations.

Attachment 1 to this Report includes approved Board of Directors and Safety and Nuclear Oversight (SNO) Committee meeting minutes.

PG&E recognizes and remains committed to improving safety culture and safety performance. Our focus is on building an accountable, transparent organization that embraces raising issues and ideas, and acts upon resolving them. PG&E is moving quickly to sustain the progress we have made with the Company's safety strategy and to continue identifying gaps and improvement opportunities to eliminate SIF incidents.

As a condition of the bankruptcy plan or reorganization, PG&E was assigned an Independent Safety Monitor (ISM, or Monitor) per CPUC resolution M-4855. The ISM has a 5-year term and will submit public summary reports of their activities every six months to the Commission through spring 2027. PG&E anticipates the Commission releasing the second ISM progress report in the coming weeks and PG&E's Ethics and Compliance department will be working with various leads across the enterprise to discuss observations, implement process improvements, and provide proactive solutions, where necessary.

## APPENDIX

### IV. Sustainability Update

#### A. Ongoing Execution and Sustainability

PG&E continues to execute on NorthStar's recommendations and has verified the sustainability of its Safety Order Instituting Investigation (OII) plans for the period of January 1, 2023, through March 31, 2023.

Compliance certifications for the first quarter of 2023 are shown in Table 1 below, and the status of the additional NorthStar recommendations is provided in Table 2.

**TABLE 1  
MATRIX OF SUSTAINABILITY PLANS**

Line No.	PG&E Implementation Plan	Certification Due Date	Certification Status <sup>(a)</sup>	Approver	Initial Implementation
1	Safety Culture and Governance OII – F-2 _Supv in the Field includes V-4	3/31/2023	Certified	Jan Nimick	Report No. 04-2019
2	Safety Culture and Governance OII – F-3 _SLD_ includes VIII-1	3/31/2023	Certified		Report No. 03-2019 Report No. 03-2019
3	Safety Culture and Governance OII – F-4 _Comprehensive Safety Strategy includes III-2_III-3_V-3	3/31/2023	Certified	Matt Hayes	Report No. 01-2018
4	Safety Culture and Governance OII – F-5 _Best Practice Coordination includes IV-5_IV-6_IV-7_V-1_V-2_V-5	3/31/2023	Certified		Report No. 01-2018
5	Safety Culture and Governance OII – III-1 _Board Qualifications	3/31/2023	Certified	Brian Wong	Report No. 01-2018
6	Safety Culture and Governance OII – IV-2 _CSO Org position	3/31/2023	Certified	Brian Wong	Report No. 01-2018
7	Safety Culture and Governance OII – F-1 _OII Implementation Plan	3/31/2023	Certified	Matt Hayes	Report No. 01-2018
8	Safety Culture and Governance OII – IX-1 _Safety Communication	3/31/2023	Certified		Report No. 01-2018
9	Safety Culture and Governance OII – IX-2 _Safety Culture Metrics	3/31/2023	Certified		Report No. 01-2018
10	Safety Culture and Governance OII – IX-3 _Reach Every Employee	3/31/2023	Certified		Report No. 01-2018
11	Safety Culture and Governance OII – III-5 _IA Safety Role	3/31/2023	Certified	Stephen Cairns	Report No. 01-2018
12	Safety Culture and Governance OII – IV-3 _Safety Dept Roles and Responsibilities includes IV-4	3/31/2023	Certified	Matt Hayes	Report No. 01-2018
13	Safety Culture and Governance OII – IV-1 _CSO Experience	3/31/2023	Certified	Matt Hayes	Report No. 01-2018

**TABLE 1  
MATRIX OF SUSTAINABILITY PLANS  
(CONTINUED)**

Line No.	PG&E Implementation Plan	Certification Due Date	Certification Status <sup>(a)</sup>	Approver	Initial Implementation
14	Safety Culture and Governance OII – VI-1 _Separate Safety Expenditures -RAMP	3/31/2023	Certified		Report No. 01-2018
15	Safety Culture and Governance OII – VI-2 _Safety IPP includes III-4	3/31/2023	Certified		Report No. 02-2019
16	Safety Culture and Governance OII – VI-3 _Risk and Bus Case Planning	3/31/2023	Certified		Report No. 02-2019
17	Safety Culture and Governance OII – VI-4 _PPM for Power Gen	3/31/2023	Certified		Report No. 03-2019
18	Safety Culture and Governance OII – VI-5 _Session D Link to Sessions 1 and 2	3/31/2023	Certified		Report No. 02-2019
19	Safety Culture and Governance OII – VII-1 _STIP and LTIP Metrics includes VII-4_VII-5	3/31/2023	Certified		Report No. 02-2019
20	Safety Culture and Governance OII – VII-2 _Former STIP metric tracking	3/31/2023	Certified		Report No. 01-2018
21	Safety Culture and Governance OII – VII-3 _LTIP Safety Weight	3/31/2023	Certified		Report No. 02-2019
22	Safety Culture and Governance OII – VII-6 _BPR Metrics	3/31/2023	Certified		Report No. 01-2018
23	Safety Culture and Governance OII – VII-7 _Expanded Best Practice Sharing	3/31/2023	Certified	Matt Hayes	Report No. 02-2019
24	Safety Culture and Governance OII – VIII-10 _PwrGen Training Completion	3/31/2023	Certified		Report No. 01-2018
25	Safety Culture and Governance OII – VIII-11 _PwrGen Refresher Training	3/31/2023	Certified		Report No. 03-2019
26	Safety Culture and Governance OII – VIII-2 _Field -first Training Profiles	3/31/2023	Certified		Report No. 03-2019
27	Safety Culture and Governance OII – VIII-3 _SLD 360	3/31/2023	Certified	Matt Hayes	Report No. 01-2018
28	Safety Culture and Governance OII – VIII-4 _Mandatory Refresher Training	3/31/2023	Certified		Report No. 03-2019
29	Safety Culture and Governance OII – VIII-5 _Human Performance Training	3/31/2023	Certified		Report No. 03-2019
30	Safety Culture and Governance OII – VIII-6 _OQ Status Reporting	3/31/2023	Certified		Report No. 01-2018
31	Safety Culture and Governance OII – VIII-7 _2014 OQ Review	3/31/2023	Certified		Report No. 03-2019
32	Safety Culture and Governance OII – VIII-9 _PwrGen Apprentice Program	3/31/2023	Certified		Report No. 03-2019



**TABLE 1  
MATRIX OF SUSTAINABILITY PLANS  
(CONTINUED)**

Line No.	PG&E Implementation Plan	Certification Due Date	Certification Status <sup>(a)</sup>	Approver	Initial Implementation
33	Safety Culture and Governance OII – X-1 _SEMS-CAP Integration	3/31/2023	Certified		Report No. 01-2018
34	Safety Culture and Governance OII – X-2 _CAP-NH Costs and Benefits	3/31/2023	Certified		Report No. 01-2018
35	Safety Culture and Governance OII – X-3 _CAP-NH Reporting Benefits	3/31/2023	Certified		Report No. 01-2018
36	Safety Culture and Governance OII – X-4 _IA Review of Serious Incident Investigations	3/31/2023	Certified		Report No. 01-2018
37	Safety Culture and Governance OII – X-5 _WGE Documentation Improvement	3/31/2023	Certified		Report No. 01-2018
38	Safety Culture and Governance OII – X-6 _Central Repository for Investigation info	3/31/2023	Certified		Report No. 01-2018
39	Safety Culture and Governance OII – X-7 _ Safety Communication Protocol	3/31/2023	Certified		Report No. 01-2018
40	Safety Culture and Governance OII – X-8 _Cause Evaluation Process includes X-9	3/31/2023	Certified		Report No. 02-2019
41	Safety Culture and Governance OII – XI-1 _ Surprise Inspections for Cont Safety	3/31/2023	Certified		Report No. 01-2018
42	Safety Culture and Governance OII – XI-2 _Solely Responsible Cont Language	3/31/2023	Certified	Brooke Reilly	Report No. 01-2018
43	Safety Culture and Governance OII – XI-3 _Cont Incident Closure Criteria	3/31/2023	Certified		Report No. 01-2018
44	Safety Culture and Governance OII – XI-4 _Cont Safety best Practice Sharing	3/31/2023	Certified		Report No. 02-2019
45	Safety Culture and Governance OII – XI-5 _LOB Guidelines for Cont Safety	3/31/2023	Certified		Report No. 02-2019
46	Safety Culture and Governance OII – XI-6 _PwrGen Contractor On-boarding	3/31/2023	Certified	Jan Nimick	Report No. 01-2018
47	Safety Culture and Governance OII – V-6 _Reduce Overall Mileage	3/31/2023	Certified		Report No. 02-2019

Note: Additional recommendations from NorthStar's Report – First Update (March 29, 2019) are certified in MetricStream under the plans in scope for the assessment (F-1, F-2, F-3, F-4, III-1, and IX-1). The table excludes "IX-4 Speak-up Effectiveness" and "VIII-8 OQ Feasibility Study," which do not require ongoing actions.

(a) MetricStream compliance certification status.

## B. Additional NorthStar Recommendations

At the request of Safety and Enforcement Division (SED), NorthStar performed a secondary assessment of six PG&E Safety OII plans, established in response to recommendations from NorthStar’s original report,<sup>1</sup> and included a set of additional recommendations in the NorthStar Report – First Update.<sup>2</sup> PG&E agreed with the additional recommendations and embraced the opportunity to further improve its safety culture and governance. The status of PG&E’s implementation of these additional recommendations is provided in Table 2 below.

**TABLE 2  
MATRIX OF ADDITIONAL NORTHSTAR RECOMMENDATIONS AND  
PG&E’S IMPLEMENTATION STATUS**

Line No.	PG&E Implementation Plan	NorthStar Recommendation	Status
1	F-1_OII Implementation Plan	Institute version control over, and include dates for the implementation plans, completion narratives, sustainability plans and for the Internal Audit (IA) sign-off process.	Implemented Under Existing Plan
2	F-1_OII Implementation Plan	Increase the rigor and formality over target completion date changes, status changes and scope changes associated with the implementation of NorthStar’s recommendations. Review the implementation status of all recommendations to ensure all elements of the recommendations have been addressed or PG&E’s modifications have been documented and justified.	Implemented Under Existing Plan
3	F-1_OII Implementation Plan	Develop processes to ensure the sustainability of the implementation of NorthStar’s recommendations.	Implemented Under Existing Plan
4	F-1_OII Implementation Plan	In addition to the status of the implementation of NorthStar’s recommendations, continue to report to the Commission on any significant changes that might affect the sustainability of the recommendations.	Implemented Under Existing Plan
5	F-1_OII Implementation Plan	Report to the Commission on a quarterly basis the status of the One PG&E Operational Health & Safety Plan and associated metrics (in process).	Implemented Under Existing Plan
6	F-4 Comprehensive Safety Strategy _includes III-2_III-3_V-3	Increase Chief Safety Officer (CSO) oversight and governance over public and other aspects of safety to mitigate potential silos and ensure risks are adequately addressed.	Implemented Under Existing Plan

<sup>1</sup> NorthStar Report, issued on May 8, 2017.

<sup>2</sup> NorthStar Report – First Update, issued on March 29, 2019.

**TABLE 2  
MATRIX OF ADDITIONAL NORTHSTAR RECOMMENDATIONS AND  
PG&E'S IMPLEMENTATION STATUS  
(CONTINUED)**

Line No.	PG&E Implementation Plan	NorthStar Recommendation	Status
7	F-4 Comprehensive Safety Strategy _includes III-2_III-3_V-3	Communicate results of IA safety -related audits and Line of Business (LOB) management response to Safety, Health and Enterprise Correction Action Program (CAP) (reporting to the CSO).	IA Review Complete (Fully Implemented)
8	F-4 Comprehensive Safety Strategy _includes III-2_III-3_V-3	Include the Generation Safety Lead in routine meetings between Electric Operations and Gas Operations and Safety and Health regarding the implementation of OH&S plan.	Implemented Under Existing Plan
9	F-4 Comprehensive Safety Strategy _includes III-2_III-3_V-3	<p>Conduct an annual (or biennial) blue sky strategic safety planning exercise to concentrate on the changing environment, potential risks, and threats. The exercise should force a comprehensive analysis of all safety -related opportunities and threats and a formal, proactive action plan. The planning exercise should:</p> <ul style="list-style-type: none"> <li>• Consider the environmental, financial, political, technological, infrastructure, public, workforce and other risks and safety advancements.</li> <li>• Include executives, management and potentially the BODs.</li> <li>• Be facilitated by an outside expert.</li> <li>• Cover ALL potential contributors to safety.</li> </ul>	Implemented Under Existing Plan
10	F-2_Supv in the Field includes V-4	Increase the number of Supervisors in Electric Operations, Gas Operations and Power Generation field operations to comply with Corporate Procedure HR-2010-P01 thereby limiting the span of direct reports to a maximum of 1:20.	Implemented Under Existing Plan
11	F-2_Supv in the Field includes V-4	Commit to a target level of dedicated time in supervisors calendars each week for time in the field; guidance will remain flexible for each LOB to take into consideration the different job functions and geographic work considerations.	Implemented Under Existing Plan
12	F-2_Supv in the Field includes V-4	Transfer administrative tasks such as scheduling of work, training, and paperwork review, from the Supervisor to the office--based staff.	Implemented Under Existing Plan
13	F-2_Supv in the Field includes V-4	Formalize Gas, Electric, and Power Generation management expectations for supervisors spending time in the field and communicate techniques for how to reduce impediments in each LOB thereby increasing time in the field.	Implemented Under Existing Plan
14	F-2_Supv in the Field includes V-4	Move completed work review to the jobsite, allowing for immediate feedback before electronic records and paperwork are finalized.	This plan will not be implemented.

**TABLE 2  
MATRIX OF ADDITIONAL NORTHSTAR RECOMMENDATIONS AND  
PG&E'S IMPLEMENTATION STATUS  
(CONTINUED)**

Line No.	PG&E Implementation Plan	NorthStar Recommendation	Status
15	F-2_Supv in the Field includes V-4	Reduce travel requirements for field personnel and supervisors who are frequently assigned to work or attend meetings outside their normal work locations.	Implemented Under Existing Plan
16	F-3_SLD_includes VIII-1	Continue to provide Crew Lead Safety Leadership training courses for employees that move into Crew Lead positions. Automatically include Crew Lead Safety Leadership training in the training profiles for new crew leads.	Implemented Under Existing Plan
17	F-3_SLD_includes VIII-1	On an annual basis, revise Safety Leadership Development (SLD) training to address any areas of concern identified in the review of SafetyNet observation data.	IA Review Complete (Fully Implemented)
18	III-1_Board Qualifications	Report any changes in the BOD skills matrix, and any changes to the composition of the BOD to the CPUC.	Implemented Under Existing Plan
19	III-1_Board Qualifications	Continue to update the BOD on safety and other significant industry issues.	Implemented Under Existing Plan
20	III-1_Board Qualifications	<p>Encourage BOD members to inquire and challenge PG&amp;E executives to ensure a robust governance process. Revise PG&amp;E Corp.'s Governance Guidelines to include expectations for Directors. As an example, see the Sempra Energy Corporate Governance Guidelines. Among other items, the Sempra Energy Guidelines include the following:</p> <ul style="list-style-type: none"> <li>• Maintain an attitude of constructive skepticism, ask relevant, incisive, probing questions and engage in direct and forthright discussions with the Board and management.</li> <li>• Develop and maintain a broad understanding of the corporation's business and risk profile, its strategic, financial and operating opportunities and plans, and its internal control systems and disclosure controls and procedures, including environmental, and health and safety systems and procedures.</li> <li>• Balance prompt action with thorough deliberations, prioritize matter requiring attention, gather sufficient information, engage in open discussion, invite differing views, evaluate the benefits and risks of various courses of action and support the acceptance of prudent business risks to permit informed and timely decision making.</li> </ul>	IA Review Complete (Fully Implemented)

**TABLE 2  
MATRIX OF ADDITIONAL NORTHSTAR RECOMMENDATIONS AND  
PG&E'S IMPLEMENTATION STATUS  
(CONTINUED)**

Line No.	PG&E Implementation Plan	NorthStar Recommendation	Status
21	IX-1_Safety Communication	Implement the recommendations identified in the outside vendor's communications audit.	IA Review Complete (Fully Implemented)
22	IX-1_Safety Communication	Revise the communications plan as necessary to address any safety and health issues that are identified in recent and on-going Premier surveys and associated analyses.	Implemented Under Existing Plan

On September 16, 2022, the CPUC issued the Final NorthStar Report to PG&E. A response was provided by PG&E on October 7, 2022. Of the 68 recommendations provided in the Final NorthStar Report, 26 are recommended for further monitoring. We believe that no further monitoring of any of the 68 recommendations is necessary because all recommendations have already been fully implemented.

**C. Changes to PG&E Execution of Plans**

As recommended by NorthStar, PG&E will continue to report to the Commission on any significant changes that might affect the sustainability of the recommendations.

- PG&E certifies ongoing compliance with Recommendation IV-3, Safety Dept Roles and Responsibilities, noting that we have fully implemented this recommendation. As part of the implementation process, PG&E grouped NorthStar Recommendations IV-3 and IV-4, and reported that the implementation of both, as well as their Internal Audit Department review of the company's completion narrative, was finalized in our First Quarterly Report. Changes in 2023 Q1 include, with the exception of Matt Hayes assuming the CSO role and Sumeet Singh assuming the COO role, the EHS organization did not experience any turnover in Director and above positions and will further stabilize the organization by hiring leaders for the ECAP, Academy and Operational Safety roles. Resource balancing against the safety strategy is a standard component of our annual planning process as EHS continues to execute on the Plan on a Page which was developed in partnership with all functional areas.
- PG&E certifies ongoing compliance with Recommendation F-4, Comprehensive Safety Strategy, noting that, in regard to increasing CSO oversight and governance of public and other aspects of safety to mitigate potential silos and ensure risks are adequately addressed, Public Safety is included as part of the EHS Plan on a Page and Safety/Central Command Center where the Safety WORs take place. Public Safety is an L1 metric that is owned by a Regional Safety Director who reports to the CSO. In regard to communicating results of Internal Audit safety related audits to Safety, Health and Enterprise CAP, the CSO and their direct reports are

informed of safety-related IA audits and corrective actions. In regard to including the Generation Safety Lead in routine meetings between Electric Operations and Gas Operations and Safety & Health on the PSEMS implementation plan, safety leads for all functional areas attend weekly cross-functional operating reviews where the plan is reviewed. In regard to conducting an annual (or biennial) blue sky strategic safety planning exercise, a horizon scanning exercise is conducted bi-annually to identify any new or emerging risks. Strategy planning is conducted to develop 2-year and 10-year plans which include mitigations and controls to address identified risks.

- PG&E certifies ongoing compliance with Recommendation IV-1, CSO Experience, noting that Matt Hayes has been appointed as Chief Safety Officer. Dr. Hayes has extensive operational experience with more than two decades of experience in nuclear power and the utility industry. Since joining PG&E in 2016, he has held key roles of increasing responsibility within the company's Nuclear Generation functional area. Dr. Hayes' experience includes managing extensive organizational effectiveness analyses; and leading critical safety-related root cause evaluations. While we do not believe specific credentials should be mandatory for all safety positions, Dr. Hayes is nonetheless working to obtain his Associate Safety Professional Certification through the Board of Certified Safety Professionals.
- PG&E certifies ongoing compliance with Recommendation IX-3, Reach Every Employee, noting that starting in 2021 through 2022, PG&E adopted the Lean Operating System which requires daily meetings for all coworkers. These structured meetings offer the same opportunities for speaking up as Reach Every Employee. Unsurprisingly, feedback on the program, while generally positive has called out this redundancy. Overall satisfaction with the program dropped for the third straight year and 91% of leaders stated the program is redundant with their Daily Operating Reviews. Given this feedback, PG&E has made the decision to no longer require that all coworkers participate in a Reach Every Employee conversation. The program will be promoted as an optional engagement opportunity during Ethics & Compliance week.
- PG&E certifies ongoing compliance with Recommendation VI-5, Session D link to Sessions 1 and 2, noting that there have been many changes to PG&E's organizational structure and integrated planning process since the initiation of the implementation plan for this recommendation. PG&E has replaced the Session D, Session 1 and Session 2 processes with a new integrated planning process called Business Plan Deployment Process. Risk Informed Budget Allocation (RIBA) has been replaced with the Risk-Based Portfolio Prioritization Framework (RBPPF) consistent with guidance provided by the Commission in the Risk-based Decision-making Framework (RDF) OII. Nevertheless, the objective of making better linkage between risk identification, risk mitigation assessments and the budgeting process remains consistent with the Safety Culture and Governance budgeting and spending recommendation.

- PG&E certifies ongoing compliance with Recommendation VII-7, Expanded Best Practice Sharing, noting that PG&E has established the Lean Operating System with Daily (DOR), Weekly (WOR) and Monthly (MOR) Operating Reviews. Safety performance is shared in daily communications to all employees and exceptions are reviewed at the DORs and WORs. Enterprise Safety’s Tactical Implementation Plans (TIPs) are reviewed at the Safety WOR which includes key stakeholders from the functional areas.
- PG&E certifies ongoing compliance with Recommendation VII-2, Former STIP Metric Tracking, noting that leadership visibility to a robust and comprehensive set of metrics related to all aspects of safety is maintained through alternative forums and structures and has evolved and advanced over time. With the introduction of the Lean Operating System in 2021, the metrics monitored at the L1 level are held with the accountable Leaders within organizational-specific metric structures, where they still live. For example, a list of Key Risk Indicators (KRIs) tied with the company’s comprehensive set of top risks is maintained with monthly visibility to the enterprise-wide, cross-cutting risk management community. This also includes continued visibility to areas previously tracked within Short Term Incentive Plans (STIP) as importance of performance in these key areas (that were previously incentivized to improve) does not change within the business when they are no longer part of an annual STIP. Meaning, their importance, visibility, and tracking, does not typically change over time. Additionally, the evolution of PG&E’s new Lean Operating System will continue to support and align with the intent of having increased visibility into and reporting frequency of comprehensive metrics through the “Operating Review” function of the Lean Operating System.
- PG&E certifies ongoing compliance with Recommendation VIII-6, OQ Status Reporting, noting that the development of Operations Qualification information will continue to evolve based upon usefulness, applicability, and feedback from report recipients.
- PG&E certifies ongoing compliance with Recommendation V-6, Reduce Overall Mileage, noting that mileage continues to increase. Vehicle and employee headcount have increased year over year, the type of work is changing (undergrounding/hardening of system), and emergency response support has played a large part in the increase.
- PG&E certifies ongoing compliance with Recommendation VI-4, PPM for Power Generation, noting that execution is ongoing, however shifts are occurring in the platforms and within the prioritization methodology. Also want to note that the record storm year will require a reprioritization and potentially updated rigor to the methodology.
- PG&E certifies ongoing compliance with X-7, Safety Communication Protocol, noting that PG&E’s SIF Manager continues to develop ways to ensure everyone, and everything is always safe through the utilization of Essential Controls.

- PG&E certifies ongoing compliance with XI-1, Surprise Inspections for Contractor Safety, noting that surprise inspections are continuing, however, they have been incorporated into the Regional Contractor Safety Team’s responsibilities.
- PG&E certifies ongoing compliance with VII-6, BPR Metrics, noting that leadership visibility to a robust and comprehensive set of metrics related to all aspects of safety is maintained through alternative forums and structures as the BPR forum has changed over time. A robust and comprehensive list of metrics addressing all aspects of safety were maintained in 2019 and 2020 at the Executive level and within other organizational specific metric structures beyond L1 level, where they still live. With the introduction of the Lean Operating System in 2021, the metrics monitored at the L1 level were refined, but a comprehensive set of metrics are maintained beyond the L1 level with the accountable leaders. For example, a list of Key Risk Indicators (KRIs) tied with the company’s comprehensive set of top risks is maintained with monthly visibility to the enterprise-wide, cross-cutting risk management community. Additionally, the evolution of PG&E’s new Lean Operating System will continue to support and align with the intent of having increased visibility to a robust and comprehensive list of metrics addressing all aspects of safety through the “Operating Review” function of the Lean Operating System.

**V. Board of Directors Reporting**

In D.19-06-008, the Commission directed PG&E to provide the following information in the quarterly reports submitted to SED pursuant to D.18-11-050:

- 1) Non-confidential versions of the minutes of all Board of Directors and safety committee meetings.
- 2) All training, education, or other support on safety that PG&E and PG&E Corporation are providing to Board members so that they can adequately perform their duties on safety issues.

**A. BOD and SNO Committee Meeting Minutes**

In the first quarter of 2023, the Board of Directors held an extended meeting with two sessions on February 14 and 16; the SNO Committees held a meeting on February 15.

Attachment 1 to this Report includes non-confidential versions of approved minutes for the following Board of Directors and SNO Committee meetings that were held on or after June 13, 2019, [\[1\]](#) and for which approved minutes have not been provided in connection with a prior quarterly report:

December 13, 2022 – SNO Committees
December 13-15, 2022 – Boards of Directors

Meeting minutes for the Board of Directors and the SNO Committees must be formally reviewed and approved by the relevant governance body prior to finalization. The timing for this process varies, and in many cases the minutes



will be finalized in a different quarter from the quarter in which the meeting was held.

[\[1\]](#) Effective date of D.19-06-008.

## **B. Boards of Directors Safety-Related Training**

PG&E is submitting information regarding “all training, education or other support on safety that PG&E and PG&E Corp.” provided “to board members to ensure that they can adequately perform their duties on safety issues.”

- In February 2023, the Boards received a safety training on the PSEMS being implemented across the-utility and an update on the Wildfire Mitigation Plan.
- In February 2023, the SNO Committees reviewed safety performance, including nuclear safety. The Committees also reviewed the Wildfire Mitigation Plan. Lastly, the Committees received an update on dam safety and asset protection.

## **VI. Safety Strategy and Performance Update**

### **A. Safety Strategy Update**

PG&E continues to execute against and make improvements to its 5-Year Safety Strategy. The safety updates included in this report align with the major components of the Safety Strategy. The strategy, which has been reviewed by senior leadership and the Board of Directors, is being executed upon through Tactical Implementation Plans (TIP).

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
1	Transportation Safety	Motor Vehicle Safety	<ul style="list-style-type: none"> <li>• For Q1 2023 the 360 walk-around app has recorded over 337,000 walk arounds by our coworkers. Over 6,300 users of the app and around 5,400 assets.</li> <li>• Updated the Drivers Scorecard to provide direct access to the 360 walk-around app reporting.</li> </ul>
		Safety Technology	<ul style="list-style-type: none"> <li>• Completed pilot of over 430 Distraction and Fatigue driving, In-Cab Camera systems. The pilot baseline was launched on September 6<sup>th</sup>. Through Feb 2023, results show a 54% reduction in distracted driving and a 66% reduction in tailgating events.</li> <li>• Phase 3 of the cell phone blocking system was approved, and we will be adding an additional 1,000 users starting Q3 2023, bringing the total user count to 2,000. The system has logged over 8.4 million miles, suppressing 232,000 text messages, 58,700 calls, and over 520,000 app notifications.</li> <li>• Birdseye External Camera project started for all Trouble trucks, retrofitting 4 cameras per truck to reduce blind spots, approximately 600 trucks to be retrofitted or delivered new with cameras installed.</li> </ul>
		Contractor Transportation Risk	<ul style="list-style-type: none"> <li>• Through Q1 2023, reviewed over 98 contractor motor vehicle incidents for SIF potential. Of the 98, 4 were classified as SIF Potential requiring an Apparent Cause Evaluation (ACE) and 8 were classified as SIF Potential requiring a Work Group Evaluation (WGE).</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
2	Contractor Safety	Safety Plan Review & Approval Process (PSP/PSSP)	<ul style="list-style-type: none"> <li>Aligned on safety plan requirements through development of comprehensive job aids, examples, and supporting documents.</li> <li>Created critical tasks and hazard identification criteria for Safety Plan Approver alignment.</li> <li>Integrated driving safety, rollover prevention, and journey management requirements to all documents and shared updates with Contractor Safety Plan Approvers and Functional Area partners.</li> </ul>
		Contractor Safety Quality Assurance Review (CSQAR)	<ul style="list-style-type: none"> <li>Completed 8 Contractor Safety Quality Assurance Reviews (CSQARs) in Q1 with high-risk contract partners.</li> <li>No SIF incidents or high / life-threat findings YTD for those contractors who have gone through a CSQAR.</li> </ul>
		Contractor Safety Forums	<ul style="list-style-type: none"> <li>Established and implemented a standard process / structure for Contractor Leadership and Engagement Forums</li> <li>The Enterprise Contractor Safety team participated in 5 FA forums in Q1 with the Electric Operations, Electric Substation, Gas, Vegetation Management, and Environmental teams.</li> </ul>
		Post Job Evaluation Process	<ul style="list-style-type: none"> <li>Through finalizing this work effort, identified improvements in the ISN system to better link prime contractors to subcontractors for post job evaluations and other corresponding PG&amp;E sites in ISN.</li> </ul>
		Contractor Safety Driving Program Requirements	<ul style="list-style-type: none"> <li>Implemented the PG&amp;E Safe Driving Program with 2,300 contract partners.</li> <li>Reviewed 302 PG&amp;E Safe Driving Programs, identifying GAPS and providing feedback for improvement.</li> <li>Developed a comprehensive, focused Rollover Prevention Campaign, targeting 58 highest risk contract partners.</li> </ul>
		Safety Management System and Program Improvements	<ul style="list-style-type: none"> <li>Developed business case/waste elimination proposal for Incident Management and Safety Observation consolidation tool.</li> <li>Kicked off project to begin work on contractor-specific training updates including badging requirements, training profiles, and developing a training matrix.</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
3	SIF Prevention	Safety Observations	<ul style="list-style-type: none"> <li>• Enterprise: 30,866 safety observations were completed in Q1, including 7,238 observations completed by EHS field safety specialists.</li> <li>• Contract Partners: 17,157 safety observations were completed in Q4 on contract partners, including 4,539 safety observations completed by the EHS field safety specialists.</li> <li>• LOB stakeholders involved in aligning safety observation checklists with Keys to Life and observation quality reviews; pilot programs slated to run through Q3.</li> </ul>
		Keys to Life – Standards Training & Validation	<p><u>Pre-Job Safety Briefing:</u></p> <ul style="list-style-type: none"> <li>• New standard developed and published to the PG&amp;E Guidance Document Library – SAFE-1062S Pre-Job Safety Briefing.</li> </ul> <p><u>Electrical Safety Testing &amp; Grounding:</u></p> <ul style="list-style-type: none"> <li>• Failure Modes and Effects Analysis (FMEA) completed; recommended actions in place for failure modes that required additional mitigations; added to risk bow tie register as a controls enhancement.</li> <li>• Internal/external benchmarking to utility industry in progress.</li> <li>• Grounding Manual revisions in progress; completed third party and stakeholder/Grounding Manual team reviews. 3<sup>rd</sup> party review by two Electrical Experts was completed with very beneficial feedback being provided, helping ensure the Protective Grounding Manual will align with industry best practices including language used in the manual.</li> </ul> <p><u>Hazardous Environment/Line of Fire:</u></p> <ul style="list-style-type: none"> <li>• FMEA in progress.</li> <li>• Internal/external benchmarking to utility industry in progress.</li> </ul> <p><u>PPE:</u></p> <ul style="list-style-type: none"> <li>• Changes proposed to existing standard – SAFE 1005S.</li> <li>• Content developed for a PPE Matrix for all operational functional areas.</li> <li>• SAFE-1005S – Personal Protective Equipment has been updated to include Essential Controls description and definition. A stakeholder group has been developed to review the draft PPE Assessment, matrix, standard and communication plan. All actions are currently on-track. Next steps are to review draft matrix content and develop communication plan.</li> </ul> <p><u>Safe Driving:</u></p> <ul style="list-style-type: none"> <li>• SAFE-1002S – Motor Vehicle Safety Standard - FMEA completed; failure modes assessed did not require additional mitigations.</li> <li>• FMEA findings integrated into motor vehicle safety risk bowtie.</li> <li>• Internal/external benchmarking to utility industry in progress.</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
3	SIF Prevention	SIF Corrective Action Effectiveness Review	<ul style="list-style-type: none"> <li>In Q1, we continued to monitor Corrective Action Effectiveness by creating and distributing a weekly review of the types of Corrective Actions (CAs) closed based on the hierarchy of controls including monitoring and reporting out on whether the CAs were implemented as approved by CARB. We also began reporting out to Corrective Action Review Boards (CARBs) monthly on whether CAs were focused on fixing the work or the worker. We also have updated our training to reflect the new focus on fixing the work and began including repeat incidents in the Executive Oversight Committee review to ensure CAs that are developed take into consideration where past CAs have failed.</li> </ul>
		Contractor Led Investigations	<ul style="list-style-type: none"> <li>In Q1, we developed and will be publishing in Q2 the Contractor CE Standard. Additionally, we have developed some examples of what good RCE and ACE reports look like that can be shared with anyone outside the company, a job aid to help fill out the report and identified a way for contractor Cause Evaluation teams to be able to safely and securely share data between PG&amp;E and contractor teams.</li> </ul>
		SIF Investigations	<ul style="list-style-type: none"> <li>In Q1 we worked on updating the CE governance documents including the standard and the procedure, both will be published within the month. We have transitioned our oversight work from quarterly to monthly and will be reporting to CARB for the first time this month and in addition to the normal process compliance aspect we have traditionally performed, have added a review of the problem statements, the focus of CAs (fix the work or worker) and the timeliness of the CE process from incident to CAP to quality review to CARB review to CA implementation. Last of all we have improved the EOC process by meeting every week to review all SIF incident CEs, have been documenting them in CAP and have added key business partners to the EOC committee to improve its effectiveness.</li> </ul>
		Improve Timeliness & Clarity of SIF Incident Communications	<ul style="list-style-type: none"> <li>13 Serious Incident Alert messages were communicated via the Daily Safety Update and shared enterprise wide through Daily Operating Review discussions within 1-2 days of occurrence.</li> <li>Most recent serious incidents (including SIFs) are communicated in the weekly Enterprise Health &amp; Safety (EHS) Snapshot sent to PG&amp;E's extended leadership team.</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
4	Organization Culture & Safety Mindset	Roadmap Execution Progress	<ul style="list-style-type: none"> <li>Roadmap is on the TIP and is current and approved. Working through the next steps on the TIP.</li> </ul>
		Assessment	<ul style="list-style-type: none"> <li>Supporting the CPUC Safety Culture Order Instituting Rulemaking that is expected to be in place by year-end 2023.</li> </ul>
		Enterprise Leadership Development Program	<ul style="list-style-type: none"> <li>Participating in workshops and the training is ready to roll out.</li> </ul>
		Culture of Villages	<ul style="list-style-type: none"> <li>Working to stand up a safety culture village in Enterprise Safety.</li> </ul>
		Communications	<ul style="list-style-type: none"> <li>Enterprise Safety Week held from January 9-13.</li> <li>Weekly Enterprise Health &amp; Safety Snapshot of all safety-related communications sent to PG&amp;E's extended leadership team, grassroots leads, and union (themes: 1. Transportation, 2. Coworker &amp; Contractor, 3. Culture, 4. CAP, 5. Training).</li> <li>Contractor Snapshot sent to medium- and high-risk contract companies bi-weekly.</li> <li>Daily safety messages and Serious Incident Alerts sent in the Daily Safety Update for discussion by leaders/teams during Daily Operating Reviews, huddles, and tailboards.</li> <li>Soft launch of enterprise safety recognition program; QR code on the Daily Safety Update to submit recognition.</li> <li>Conducted learning sessions about PG&amp;E's Safety Excellence Management System (PSEMS).</li> </ul>
5	Public Safety – Increase Awareness	EO Awareness Campaign	<ul style="list-style-type: none"> <li>Issued 2 social media campaigns, 1) February - balloon safety around power lines for Valentine's day, and 2) March - Mind the Lines above and below ground to prevent energized line contact incidents.</li> </ul>
		Hydro & Canal Operations	<ul style="list-style-type: none"> <li><b>Barrier Fencing:</b> Power Generation has installed approximately 167,000 linear feet of barrier fencing along PG&amp;E's canal systems. Power Generation has also created and distributed safety information to property owners with canals that bisect their property. A canal entry emergency response plan has been published to guide efficient and timely communications between PG&amp;E personnel and local first responders when responding to emergencies resulting from public entry into PG&amp;E-owned water conveyance systems.</li> <li><b>Canals and Waterways Safety:</b> In 2022, PG&amp;E Power Generation and external public safety representatives successfully tested a new rope system designed to enable members of the public who might accidentally fall into a hydro canal to pull themselves out of danger. Since 2019, an additional 8.3 miles of barrier fencing has been installed along with 139 newly designed escape ladders. In addition, 327 warning signs have been posted, identifying the canal and specific GPS location.</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
6	PG&E Safety Excellence Management System (PSEMS)	Manual Development	<ul style="list-style-type: none"> <li>• Complete</li> </ul>
		Lloyd's Register Quality Assurance - Gap Assessment	<ul style="list-style-type: none"> <li>• Assessments start 6/7. Currently working on the change management effort to prepare for assessments.</li> </ul>
		Implementation Roadmap	<ul style="list-style-type: none"> <li>• Complete</li> </ul>
		Management of Change (MOC)	<ul style="list-style-type: none"> <li>• Currently working on developing an Enterprise MOC Standard to replace SAFE-4300S and work with the Functional Areas to develop streamlined guidance documents.</li> </ul>
		Assurance	<ul style="list-style-type: none"> <li>• No progress.</li> </ul>
7	Personal Safety	Police Officer Support for Oakland	<ul style="list-style-type: none"> <li>• Oakland PD foot patrol has included Oakland General Office in their daily patrol schedule.</li> <li>• 5-armed security guards added to supplement officer openings.</li> </ul>
		Two-Way Radios and Communications	<ul style="list-style-type: none"> <li>• A number of two-way radios are currently in use in Oakland to communicate with our Corp Security lead and others in the area to raise awareness.</li> <li>• Local text threads for GO/EO have been developed to share hazardous conditions in a timely manner.</li> <li>• Everbridge has replaced e-page and all EO/GO Dispatch Supervisors have been trained. Gas has been piloting the process as we continue to refine the process.</li> <li>• Blackline personal security monitoring is currently being piloted in Gas with over 20 units in use. Units connect Lone Workers with standby operators to assist with hazardous conditions.</li> </ul>
		PD Hazard Data Visibility Overlayed on Maps	<ul style="list-style-type: none"> <li>• When a customer is wondering if we have personnel working in an area, our Customer Reps can use a system to locate work and verify PG&amp;E presence at the caller's location.</li> <li>• Hazards continue to be communicated through LiveSafe to CC&amp;B, Maps+ and GIS.</li> </ul>
		Legislative Action	<ul style="list-style-type: none"> <li>• We are working with Bay Area Utilities and union coalition to draft city ordinance language for all utilities to establish work zones that can be protected by law. This ordinance allows any encroachment into an established work zone to be cited by law enforcement as a form of trespassing. Language is being drafted and will be submitted to the City of Oakland and to location council members for support.</li> <li>• PG&amp;E coworkers and the IBEW will be commenting on and supporting passage of SB705 on 4/10/23. SB705 will require the CPUC to fund a communication campaign to raise awareness on Utility Worker Safety. This is the first step to building support for a previous bill that was voted against to make assaults against Utility Workers a felony.</li> </ul>

**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
		Community of Service Teams <i>(with like service providers)</i>	<ul style="list-style-type: none"> <li>We've had 3 Coalition meetings with EBMUD, AT&amp;T, Comcast, ARB, Underground Construction, IBEW, Oakland DPW, City Administrator's office. Actions include support of Oakland City Ordinance to establish enforceable safe work zones and SB705 to support Utility Worker Safety. Members are also sharing lessons learned and best practices.</li> </ul>
		Personal Situational Awareness Training	<ul style="list-style-type: none"> <li>A live action De-escalation Simulation Training has been developed and piloted with 3 work groups (Traffic Control, Locate and Mark and Corrosion).</li> <li>Additional training and refinement will continue.</li> <li>An off-site location is being evaluated.</li> <li>Partnering with the Academy to develop the training into a course others can take.</li> </ul>
8	Occupational Health	Ergonomics and Industrial Athlete	<p><u>Office Ergonomics (OE):</u></p> <ul style="list-style-type: none"> <li>Conducted 1,199 OE evaluations and 570 predictive model 1:1 coaching sessions.</li> <li>Targeted 699 coworkers identified as high-risk by the predictive model for early-intervention coaching; profiled 350 supervisors to take required training.</li> <li>200 people participated in ergonomics education webinars.</li> <li>Created video repository on the OE website to allow easy access to recorded stretch &amp; flex videos and webinars.</li> </ul> <p><u>Industrial Ergonomics (IE):</u></p> <ul style="list-style-type: none"> <li>Completed three ergo task analysis projects (Electric, Materials, and Fleet) and provided project solution recommendations.</li> <li>Added 3 ad-hoc IT material handling projects; completed task analyses and determined risk direct causes.</li> <li>Completed shadowing of Gas Service Representatives to identify tasks for data collection for muscle fatigue failure analysis project; collected baseline data for wrenching tasks.</li> </ul> <p><u>Vehicle Ergonomics (VE):</u></p> <ul style="list-style-type: none"> <li>Performed 35 Vehicle Ergonomic Assessments.</li> <li>Trained 3 New Vehicle Ergonomic Evaluators.</li> <li>Worked with Specifications Review Committee for Underground Slicing Van and Trouble Truck.</li> <li>Partnered with Gas M&amp;C GRST to create Safe Ingress/Egress video training for Gas Crew Trucks.</li> </ul> <p><u>Industrial Athlete (IA):</u></p> <ul style="list-style-type: none"> <li>Performed 3,018 individual services and 3,098 proactive group services.</li> <li>Supported 1,321 discomfort cases, 95 percent of which were closed at the self-care level.</li> </ul>
		Fatigue Management	<ul style="list-style-type: none"> <li><u>AlertMeter Pilot:</u> developed project plan, drafted business case, and completed IT intake process for new software (desktop and mobile app).</li> </ul>



**TABLE 3  
5-YEAR SAFETY STRATEGY UPDATE  
(CONTINUED)**

Line No.	Strategy Component	Workstream	Q1 2023 Progress
			<ul style="list-style-type: none"> <li>• <u>Fatigue Standard</u>: developed project plan, assembled cross-functional working committee, benchmarked utility fatigue management policies, and cataloged existing company guidance around fatigue.</li> </ul>
		Injury Management	<ul style="list-style-type: none"> <li>• <u>Telephonic Nurse Case Management (TCM) program</u>: provided early nurse intervention on 183 new Workers' Compensation claims; resulting in 1,254 lost workdays saved in Q1.</li> <li>• <u>Return-to-Work Task program</u>: saved 1,005 lost workdays and placed 15 employees into temporary task assignments in Q1.</li> </ul>
9	Enterprise Corrective Action Program	Near Hit Program	<ul style="list-style-type: none"> <li>• Two week-long enterprise lock screens were hosted by the Near Hit Program on all company computers and tablets, focused on sharing Near Hits and program resources.</li> <li>• 5 Near Hit feature stories were published in the enterprise Daily Digest in Q1 2023, highlighting employee shared Near Hits, lessons learned, and appropriate reference materials.</li> <li>• Weekly Near Hit messages have been shared via the company "Daily Safety Update" message for company operational calls and discussions.</li> <li>• 167 Near Hits were submitted by employees in Q1 2023.</li> </ul>
		Effectiveness Improvement (based on DCPP program assessment)	<ul style="list-style-type: none"> <li>• Performed quarterly Cause Evaluation reviews and shared with CARB.</li> <li>• Improved the Extent of Condition process, meeting regularly, documenting in CAP, expanded committee to include more subject matter experts.</li> <li>• Performed 4 "Go and See" with DCPP / Performed 5 field observations.</li> <li>• New CAP Governance Committee established.</li> <li>• Revised Internal Audit guidance documents.</li> <li>• Revised procedure/standard awaiting review and approval.</li> </ul>

**B. Safety Metrics**

PG&E established Days Away, Restricted or Transferred (DART)1 targets for 2023 based upon the goal of reaching 1st quartile by 2026. The 2023 goal would place PG&E in 2nd quartile.

Table 5 below summarizes key metrics performance and established targets for 2023. Figure 1 below provides current performance with respect to employee safety metrics as of March 31, 2023.

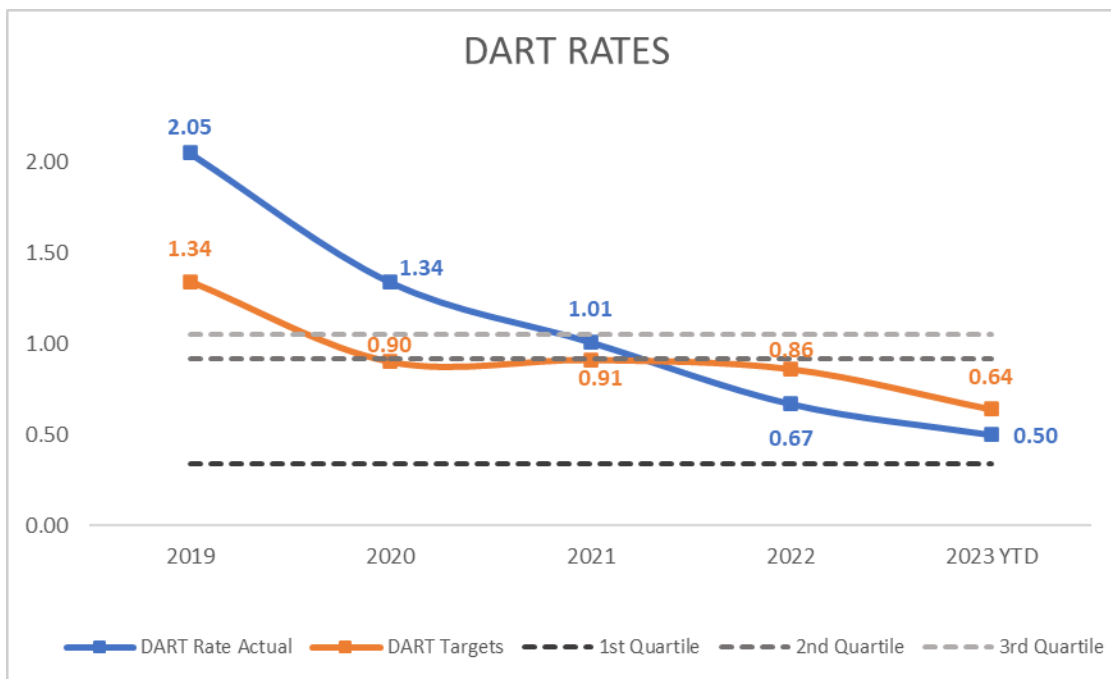
**C. Additional Analysis:**

**TABLE 5  
2020-2023 PERFORMANCE AND ESTABLISHED TARGETS**

Metric	2020*		2021*		2022*		2023*		
	Actual	Target	Actual	Target	Actual	EOY Target	YTD Actual	YTD Target	EOY Target
Employee SIF Actual Count	4		0		3		1		
Employee SIF Potential Count	25		23		15		4		
DART Rate	1.34	0.90	1.01	0.91	0.67	0.86	0.50	0.64	0.64

*\*Number includes count of all injured parties  
Data through 3/31/2023*

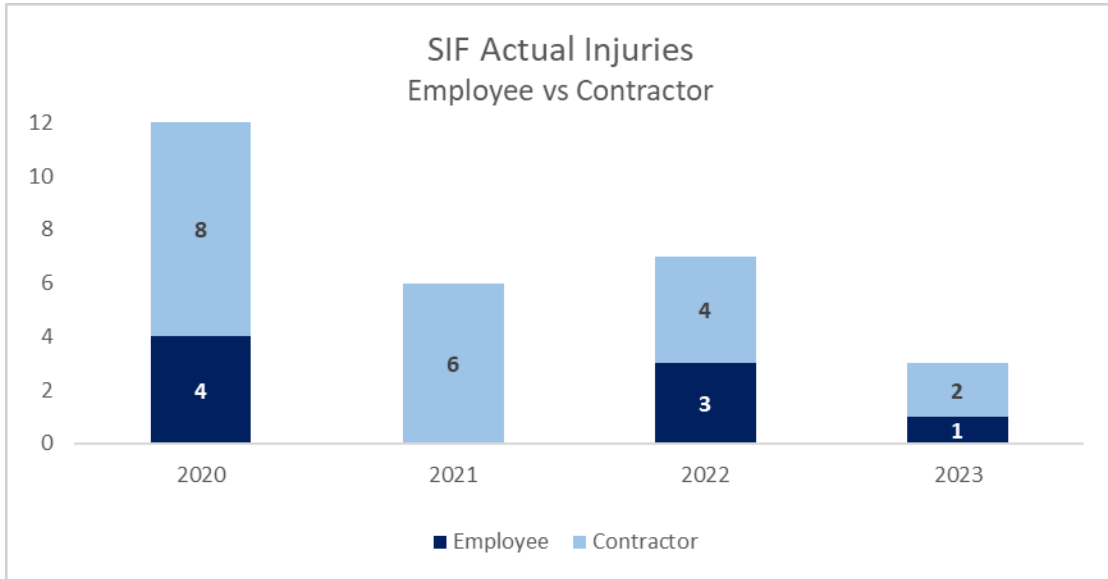
**FIGURE 1  
CURRENT PERFORMANCE AS OF MARCH 31, 2023**



**SIF Graphs**

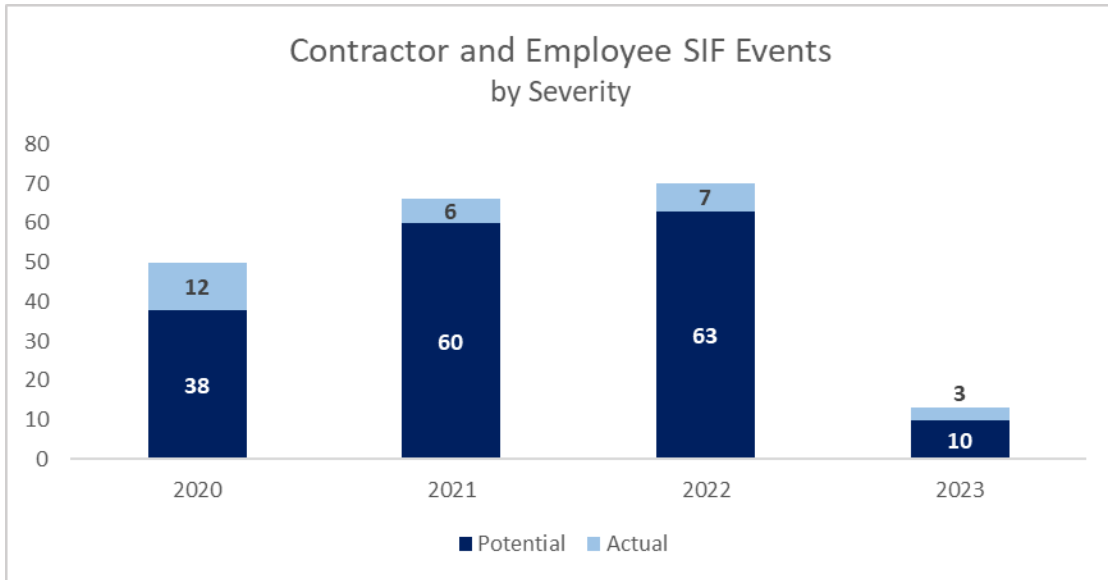
**Additional Analysis:** Started tracking Contractor SIF potentials (SIF-P) in June 2020. Contractors have contributed 6 SIFP events (60%) of total 2023 year-to-date count.

**FIGURE 3  
SIF POTENTIAL  
EMPLOYEE VS CONTRACTOR (2020 - 2023)**



Note: Graph above is based on number of incidents.

**FIGURE 4  
CONTRACTOR AND EMPLOYEE SIF EVENTS (2020 – 2023)**



Notes: Contractor SIF-P events were not tracked in 2019.  
Contractor SIF-P tracking started in June 2020.

**TABLE 5  
CONTRACTOR SIF  
2020 - 2023 PERFORMANCE**

Metric***	2020*	2021*	2022*	2023*
	Actual	Actual	Actual	YTD Actual
Contractor SIF Actual Count	8	6	4	2
Contractor SIF Potential Count**	14	38	48	6

*\*Number includes count of all injured parties*

*\*\*Contractor SIF Potentials were only tracked starting June 2020*

*\*\*\*Targets are not set for Contractor metrics*

*Data through 3/31/2023*

Note: Includes all Contractor SIFs.

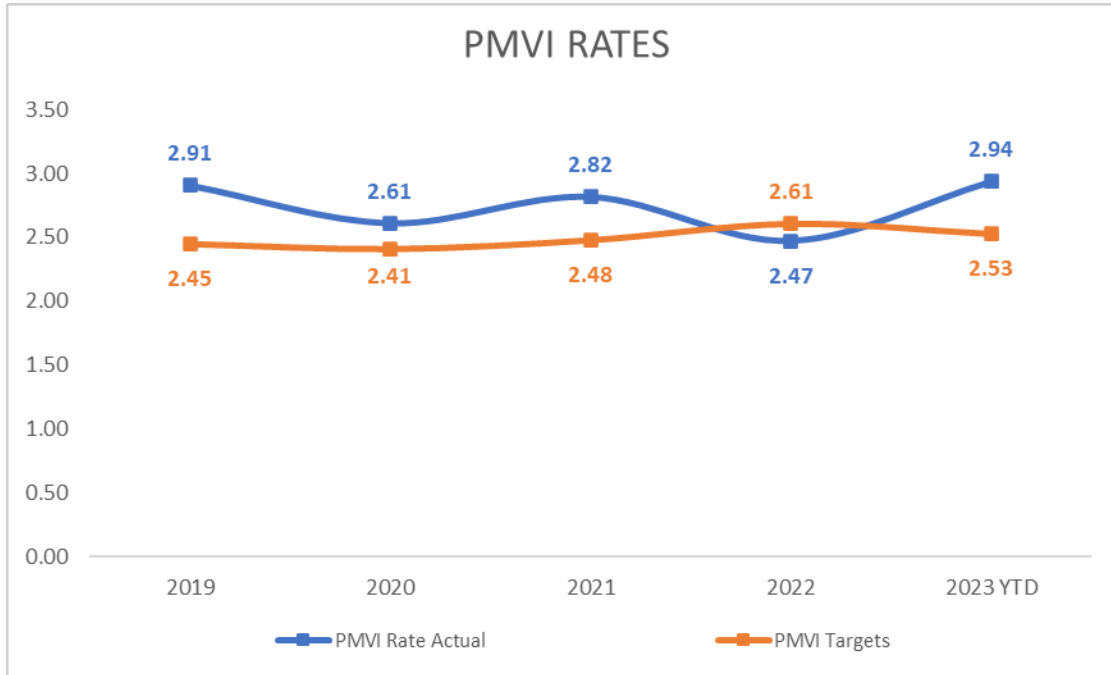
**Additional Analysis:**

**TABLE 6  
2020 – 2023 PERFORMANCE AND ESTABLISHED TARGETS**

Metric	2020		2021		2022		2023		
	Actual	Target	Actual	Target	Actual	Target	YTD Actual	YTD Target	EOY Target
PMVI Rate	2.61	2.41	2.82	2.48	2.47	2.61	2.94	2.53	2.53

*Data through 3/31/2023*

**FIGURE 5  
CURRENT PERFORMANCE AS OF MARCH 31, 2023**



**VII. Conclusion**

PG&E is committed to improving its safety culture and performance and continuing to gain our customers and the public’s trust. The areas of opportunity identified by NorthStar in its Final Report and in its First Update are at the core of a strong and proactive safety culture. PG&E looks forward to continuing this important work and providing the Commission with quarterly updates on its progress.

**PACIFIC GAS AND ELECTRIC COMPANY**  
**ATTACHMENT A**  
**BOD AND SNO COMMITTEE MEETING MINUTES**

SAFETY AND NUCLEAR OVERSIGHT COMMITTEE OF THE  
BOARD OF DIRECTORS OF PACIFIC GAS AND ELECTRIC COMPANY  
December 13, 2022

A meeting of the Safety and Nuclear Oversight (SNO) Committee of the Board of Directors of Pacific Gas and Electric Company (Utility) was held at the offices of the Corporation, 300 Lakeside Drive, Oakland, California, on December 13, 2022, at 12:45 p.m. Pacific Time. The meeting was held concurrently with a meeting of the PG&E Corporation (Corporation and, together with the Utility, the Companies) SNO Committee.

SNO Committee members Cheryl F. Campbell, Jessica L. Denecour, Mark E. Ferguson III, W. Craig Fugate, Michael R. Niggli, and William L. Smith were present. Other directors present were Robert C. Flexon, Kerry W. Cooper, Arno L. Harris, and Carlos M. Hernandez.

Also present at the beginning of the meeting were Patricia K. Poppe, Adam L. Wright, Christopher A. Foster, John R. Simon, Sumeet Singh, Ajay Waghray, Heather Hornbrook, J. Ellen Conti, and Gabriel H. Briggs, along with Todd W. Filsinger, Operational Observer, Filsinger Energy Partners.

Quorum present, Ms. Campbell, Chair, presided over the meeting. Ms. Conti served as secretary of the meeting and opened the meeting with a situational safety briefing.

Mr. Singh began with a moment of silence for a contractor who had passed away since the previous Committee meeting. Referring to the materials that were provided to the Committee in advance of the meeting and that are included in the records of this Committee (“Committee materials”), he provided an update about the contractor fatality. The Committee asked questions and discussed, among other things, the threshold for terminating a contracting firm, other contracting firms with high rates of safety incidents, and what actions are being taken to reduce the risk of similar incidents happening in the future.

At this point, Ms. Hornbrook left the meeting and Paula Gerfen joined the meeting by videoconference.

Ms. Gerfen, referring to Committee materials, gave a presentation on nuclear performance at Diablo Canyon Power Plant (DCPP), including learnings from the last outages, engagement with federal and state agencies on approvals for continued operations, and retention packages for employees that work at DCPP. The Committee discussed various topics from Ms. Gerfen’s presentation, and asked questions about the license extension and alignment with governmental agencies.

At this point, Mr. Charles Casto, Director of the Nuclear Safety Oversight Commission (NSOC), joined the meeting.

SAFETY AND NUCLEAR OVERSIGHT COMMITTEE  
PG&E CORPORATION – December 13, 2022

Referring to Committee materials, Mr. Casto described the results of NSOC's oversight of DCP, concluding that the units are being operated in a manner that promotes nuclear safety. The Committee discussed and asked questions about the presentation.

At this point, Ms. Gerfen and Mr. Casto left the meeting.

Referring to Committee materials, Mr. Singh provided an update on PG&E's progress on the 2022 Wildfire Mitigation Plan (WMP). He led a discussion on the Utility's performance and progress towards meeting its targets and a report from California Public Utilities Commission's (CPUC) Office of Energy Infrastructure Safety. The Committee asked questions and discussed, among other things, resource availability and work prioritization.

At this point, Mr. Rick Ito entered the meeting.

Referring to Committee materials, Messrs. Singh and Ito gave a presentation on risk review: Third-party incidents, including updates on what is in scope for the risk, where the risk ranks on the Company's risk register, and what the Company can do to directly influence this risk event. The Committee discussed various topics from the presentation, and asked questions about raising situational awareness and public awareness programs.

At this point, Mr. Ito left the meeting and Ms. Janisse Quiñones entered the meeting.

Referring to Committee materials, Ms. Quiñones provided an update on dam safety, including updates on dam inspections and the oversight the Company has through compliance requirements. The Committee discussed various topics from Ms. Quiñones's presentation, and asked questions about the sensitivity that the Company's dams have to catastrophic weather and the common characteristics of non-Company-owned dams that had recently failed. The Committee requested that a sensitivity analysis be done on the Company's dams and presented at a future meeting.

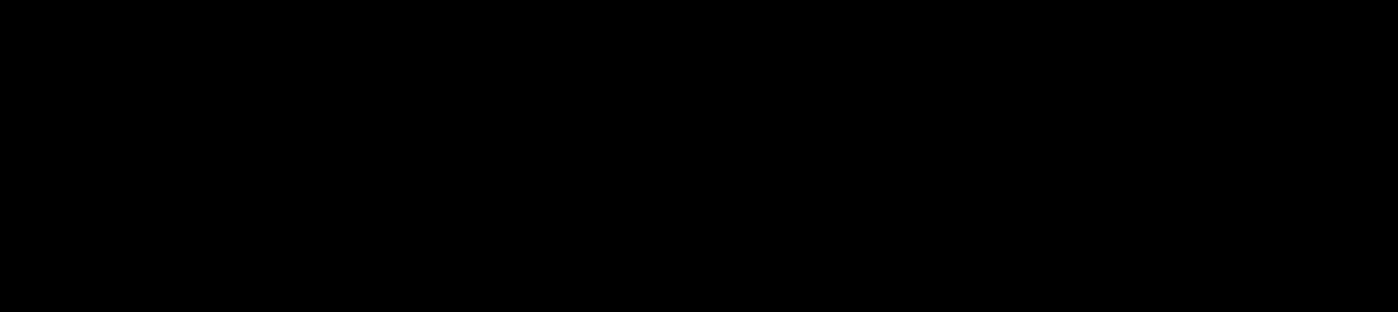
At this point, Ms. Quiñones left the meeting and Mr. David Leach and Mr. Jim Murphy entered the meeting.

Referring to Committee materials, Mr. Leach gave a presentation on individual safety and asset protection, including increases in the threat environment to both individuals and Company assets, and reviewing recent industry events related to asset protection and what the Company has learned from these events.

[THE FOLLOWING PARAGRAPH IS PRIVILEGED AND CONTAINS PROTECTED ATTORNEY WORK PRODUCT AND CONFIDENTIAL INFORMATION.]



SAFETY AND NUCLEAR OVERSIGHT COMMITTEE  
PG&E CORPORATION – December 13, 2022



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

At this point, Messrs. Leach and Murphy left the meeting.

Ms. Campbell then referred to the minutes of the joint SNO/Audit Committees meeting held on October 25, 2022, and the Committee meeting held on September 14, 2022, which were included in the Committee materials. On motion made and seconded, the minutes were approved.

Ms. Campbell then suggested, with support of other directors and management, that responsible parties review the SNO Committee Charter and revise section III.9 to generalize the language so that the scope of the charter was more inclusive of existing and emerging technologies that mitigate Utility-initiated outage events. The Committees will review proposed changes at the next SNO Committees meeting.

Ms. Poppe, Messrs. Wright, Foster, Simon, Singh, Waghray, Ms. Conti, Mr. Briggs, and Mr. Filsinger left the meeting, and the Committee continued in executive session discussing matters reflected on the agenda.

There being no further business presented for action, on motion made, seconded, and carried, the meeting was adjourned at 2:45 p.m. Pacific Time.

J. ELLEN CONTI  
Secretary

SAFETY AND NUCLEAR OVERSIGHT COMMITTEE OF THE  
BOARD OF DIRECTORS OF PG&E CORPORATION  
December 13, 2022

A meeting of the Safety and Nuclear Oversight (SNO) Committee of the Board of Directors of PG&E Corporation (Corporation) was held at the offices of the Corporation, 300 Lakeside Drive, Oakland, California, on December 13, 2022, at 12:45 p.m. Pacific Time. The meeting was held concurrently with a meeting of the Pacific Gas and Electric Company (PG&E or the Utility and, together with the Corporation, the Companies) SNO Committee.

SNO Committee members Cheryl F. Campbell, Jessica L. Denecour, Mark E. Ferguson III, W. Craig Fugate, Michael R. Niggli, and William L. Smith were present. Other directors present were Robert C. Flexon, Kerry W. Cooper, Arno L. Harris, and Carlos M. Hernandez.

Also present at the beginning of the meeting were Patricia K. Poppe, Adam L. Wright, Christopher A. Foster, John R. Simon, Sumeet Singh, Ajay Waghray, Heather Hornbrook, J. Ellen Conti, and Gabriel H. Briggs, along with Todd W. Filsinger, Operational Observer, Filsinger Energy Partners.

Quorum present, Ms. Campbell, Chair, presided over the meeting. Ms. Conti served as secretary of the meeting and opened the meeting with a situational safety briefing.

Mr. Singh began with a moment of silence for a contractor who had passed away since the previous Committee meeting. Referring to the materials that were provided to the Committee in advance of the meeting and that are included in the records of this Committee (“Committee materials”), he provided an update about the contractor fatality. The Committee asked questions and discussed, among other things, the threshold for terminating a contracting firm, other contracting firms with high rates of safety incidents, and what actions are being taken to reduce the risk of similar incidents happening in the future.

At this point, Ms. Hornbrook left the meeting and Paula Gerfen joined the meeting by videoconference.

Ms. Gerfen, referring to Committee materials, gave a presentation on nuclear performance at Diablo Canyon Power Plant (DCPP), including learnings from the last outages, engagement with federal and state agencies on approvals for continued operations, and retention packages for employees that work at DCPP. The Committee discussed various topics from Ms. Gerfen’s presentation, and asked questions about the license extension and alignment with governmental agencies.

At this point, Mr. Charles Casto, Director of the Nuclear Safety Oversight Commission (NSOC), joined the meeting.

SAFETY AND NUCLEAR OVERSIGHT COMMITTEE  
PG&E CORPORATION – December 13, 2022

Referring to Committee materials, Mr. Casto described the results of NSOC's oversight of DCP, concluding that the units are being operated in a manner that promotes nuclear safety. The Committee discussed and asked questions about the presentation.

At this point, Ms. Gerfen and Mr. Casto left the meeting.

Referring to Committee materials, Mr. Singh provided an update on PG&E's progress on the 2022 Wildfire Mitigation Plan (WMP). He led a discussion on the Utility's performance and progress towards meeting its targets and a report from California Public Utilities Commission's (CPUC) Office of Energy Infrastructure Safety. The Committee asked questions and discussed, among other things, resource availability and work prioritization.

At this point, Mr. Rick Ito entered the meeting.

Referring to Committee materials, Messrs. Singh and Ito gave a presentation on risk review: Third-party incidents, including updates on what is in scope for the risk, where the risk ranks on the Company's risk register, and what the Company can do to directly influence this risk event. The Committee discussed various topics from the presentation, and asked questions about raising situational awareness and public awareness programs.

At this point, Mr. Ito left the meeting and Ms. Janisse Quiñones entered the meeting.

Referring to Committee materials, Ms. Quiñones provided an update on dam safety, including updates on dam inspections and the oversight the Company has through compliance requirements. The Committee discussed various topics from Ms. Quiñones's presentation, and asked questions about the sensitivity that the Company's dams have to catastrophic weather and the common characteristics of non-Company-owned dams that had recently failed. The Committee requested that a sensitivity analysis be done on the Company's dams and presented at a future meeting.

At this point, Ms. Quiñones left the meeting and Mr. David Leach and Mr. Jim Murphy entered the meeting.

Referring to Committee materials, Mr. Leach gave a presentation on individual safety and asset protection, including increases in the threat environment to both individuals and Company assets, and reviewing recent industry events related to asset protection and what the Company has learned from these events.

[THE FOLLOWING PARAGRAPH IS PRIVILEGED AND CONTAINS PROTECTED  
ATTORNEY WORK PRODUCT AND CONFIDENTIAL INFORMATION.]

SAFETY AND NUCLEAR OVERSIGHT COMMITTEE  
PG&E CORPORATION – December 13, 2022



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

At this point, Messrs. Leach and Murphy left the meeting.

Ms. Campbell then referred to the minutes of the joint SNO/Audit Committees meeting held on October 25, 2022, and the Committee meeting held on September 14, 2022, which were included in the Committee materials. On motion made and seconded, the minutes were approved.

Ms. Campbell then suggested, with support of other directors and management, that responsible parties review the SNO Committee Charter and revise section III.9 to generalize the language so that the scope of the charter was more inclusive of existing and emerging technologies that mitigate Utility-initiated outage events. The Committees will review proposed changes at the next SNO Committees meeting.

Ms. Poppe, Messrs. Wright, Foster, Simon, Singh, Waghray, Ms. Conti, Mr. Briggs, and Mr. Filsinger left the meeting, and the Committee continued in executive session discussing matters reflected on the agenda.

There being no further business presented for action, on motion made, seconded, and carried, the meeting was adjourned at 2:45 p.m. Pacific Time.

J. ELLEN CONTI  
Secretary

PRIVILEGED AND CONFIDENTIAL<sup>1</sup>

BOARD MEETING – December 13, 14, and 15, 2022  
PACIFIC GAS AND ELECTRIC COMPANY

A regular meeting of the Board of Directors of Pacific Gas and Electric Company (Utility) was held at the offices of the Utility, 300 Lakeside Drive, Oakland, California, on Tuesday, December 13, 2022, at 8:00 AM Pacific Time. The meeting was held concurrently with a meeting of the PG&E Corporation (Corporation and, together with the Utility, the Companies or PG&E) Board of Directors.

Present at the beginning of the meeting were directors Rajat Bahri, Cheryl F. Campbell, Kerry W. Cooper, Jessica L. Denecour, Mark E. Ferguson III, Robert C. Flexon, W. Craig Fugate, Arno L. Harris, Carlos M. Hernandez, Michael R. Niggli, Patricia K. Poppe, Dean L. Seavers, William L. Smith, Benjamin F. Wilson, and Adam L. Wright.

Also present were Julius Cox, Christopher A. Foster, Jason M. Glickman, Carla J. Peterman, Marlene M. Santos, John R. Simon, Sumeet Singh, Ajay Waghray, Alejandro Vallejo, Brian M. Wong, and Lisa Crawford, and Gabriel H. Briggs.

Quorum present, Mr. Flexon, Chair of the Board of the Corporation, presided as chair of the concurrent meeting. Mr. Wong served as secretary of the meeting.

Mr. Wong opened the meeting with brief remarks about meeting safety.

[THE FOLLOWING PARAGRAPH CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]

[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Following the discussion, David Thomason entered the meeting and Thomas Webb entered the meeting via videoconferencing.

Referring to materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board (“Board materials”), Mr. Foster led a discussion on how to read and understand PG&E’s Data Book. The directors asked questions to clarify how to read and interpret the Data Book, about assumptions used, and how coworkers would use it, and a discussion ensued.

After the discussion, Messrs. Thomason and Webb left the meeting and Captain John Cox, Chief Executive Officer of Safety Operating Systems, and Todd W. Filsinger,

---

<sup>1</sup> Certain portions of these minutes are attorney-client privileged and confidential, and are identified as such.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

Operational Observer, Filsinger Energy Partners, entered the meeting and James Howe of Bay Utility Associates, entered the meeting via videoconferencing.

Referring to Board materials, Messrs. Singh, Cox, and Howe provided training on the PG&E Safety Excellence Management System (PSEMS). The directors asked questions and discussed, among other things, how contractors are included in PSEMS, how PSEMS has been received by coworkers, and how PSEMS can be improved over time by incorporating learnings from root cause analyses.

Following the discussion, Messrs. Cox and Howe left the meeting.

After a brief recess, Mr. Filsinger provided a summary of his findings in his role as Operational Observer. This included an update on PG&E's risk-based approach, quality control, vegetation management, and field leadership. The directors asked questions and discussed, among other things, areas for improvement and how PG&E compares to other utilities in the industry, and the PG&E's safety culture.

All guests left the meeting and the directors continued in executive session with Mr. Filsinger.

Following the executive session, Messrs. Simon, Vallejo, Wong, and Briggs and Ms. Crawford entered the meeting.

Referring to Board materials, Messrs. Simon and Vallejo provided Code of Conduct training to the directors. The directors asked questions and discussed, among other things, United States Department of Justice expectations for Board oversight and fiduciary duties.

After the discussion, Messrs. Vallejo and Briggs and Ms. Crawford left the meeting.

At this point, Mr. Seavers informed the Directors of his resignation from the Board.

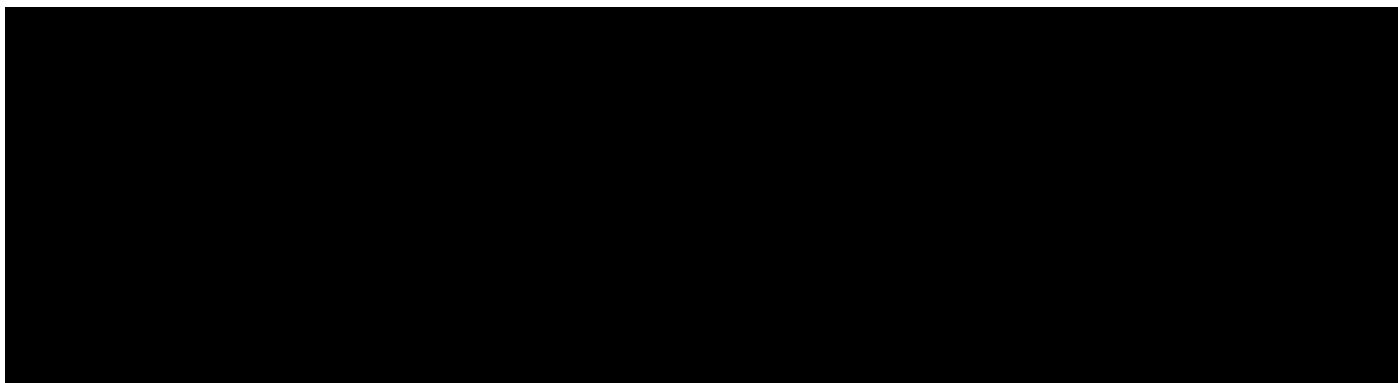
The Board recessed at 12:25 p.m. and reconvened at 12:15 p.m. on Wednesday, December 14, 2022.

Julius Cox, Chris Foster, Jason Glickman, Carla Peterman, Marlene Santos, John Simon, Sumeet Singh, Ajay Waghay, Brian Wong, Ellen Conti, and Gabriel Briggs entered the meeting.

Mr. Briggs opened this part of the meeting with brief remarks about meeting safety.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

[THE FOLLOWING PARAGRAPHS CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Messrs. Seavers and Filsinger then entered the meeting.

Mr. Glickman then led a discussion related to the Companies' True North Strategy (TNS), referring to Board materials. The directors asked questions and discussed, among other things, strategic goals for the next several years and work management. During this discussion, Peter Kenny and Joe Forline entered the meeting. Referring to Board materials, Messrs. Kenny and Forline discussed specific performance improvements that have been realized through the TNS. The directors asked questions and discussed, among other things, the performance improvements related to vegetation management and gas operations. Referring to Board materials, Ms. Santos then presented on one of the basic plays of the Lean operating system, waste elimination, including the Companies' plans for a multiyear training process for coworkers.

Mr. Filsinger then left the meeting.

The Board recessed at 3:30 p.m. and reconvened at 8:00 a.m. on Thursday, December 15, 2022.

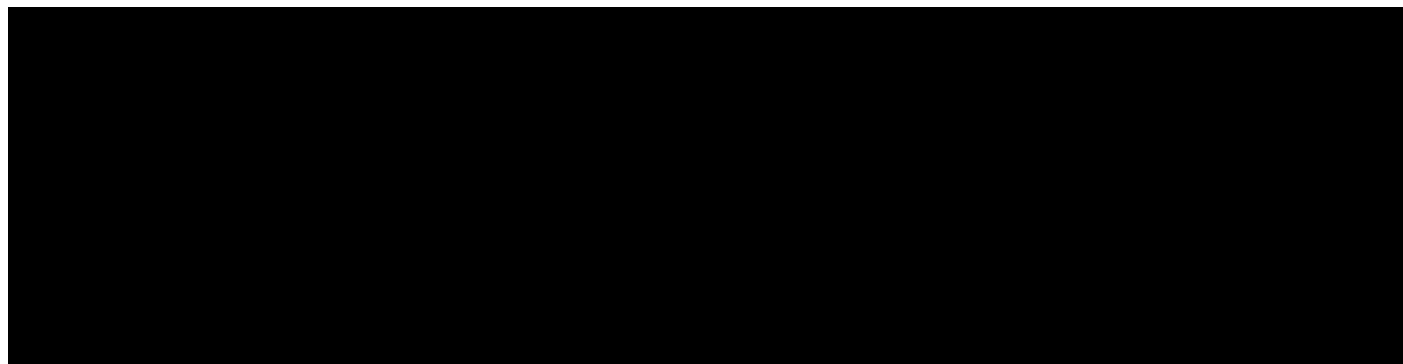
Julius Cox, Chris Foster, Jason Glickman, Carla Peterman, Marlene Santos, John Simon, Sumeet Singh, Ajay Waghay, Brian Wong, Lisa Crawford and Gabriel Briggs entered the meeting.

Mr. Wong opened this part of the meeting with brief remarks about meeting safety.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

Joe Bentley, Christine Cowsert, David Thomason, and Stephanie Williams then entered the meeting. Mari Becker and Thomas Webb entered the meeting via videoconference.

[THE FOLLOWING PARAGRAPH CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Messrs. Bentley, Thomason, and Webb, and Meses. Becker, Cowsert, and Williams then left the meeting. Todd Filsinger then entered the meeting.

Referring to Board materials, Meses. Poppe, Peterman, and Santos, and Messrs. Cox, Foster, Glickman, Simon, Singh, Waghray, and Wright led a discussion on the year of 2022 in review, sharing successes and challenges in each functional area. The directors asked questions and engaged in further discussion.

Ms. Poppe and Mr. Wright then introduced the directors to the concept of a Plan on a Page, which includes a strategic and tactical plan that links directly to the TNS. The directors then viewed the Plan on a Page for each functional area and were able to informally ask questions and discuss with the leader of each functional area.

Mr. Filsinger then left the meeting.

Mr. Wilson, Chair of the Utility's Audit Committee, reported on the key topics discussed at the Committee's most recent meeting.

Mr. Ferguson, Chair of the Corporation's People and Compensation Committee, reported on the key topics discussed at the Committee's most recent meeting. He reported that, among other matters, the Committee reviewed and agreed to recommend that the Board (i) approve the designation of section 16 officers and executive officers of the Utility and (ii) approve Russell A. Prentice as Vice President, Wildfire and Enterprise Risk Management and Matthew B. Hayes as Vice President, Enterprise Health and Safety. He invited questions and discussion on these recommendations.



BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

On motion made and seconded, the Board approved the designation of section 16 officers and executive officers of the Utility (see Resolution 1 in Attachment A), and approved the election of Russell A. Prentice and Matthew B. Hayes, as presented.

Mr. Seavers, Chair of the Corporation's Finance and Innovation Committee, led a discussion on the Committee's recommendations that the Board (i) approve authorization of up to \$1,105 million in 2023 in support of the 10,000 mile undergrounding program, (ii) declare a cash dividend on the Utility's common stock for the fourth quarter of 2022 in the aggregate amount of \$425 million from the Utility's retained earnings, payable to the common shareholder, PG&E Corporation, no later than December 30, 2022, (iii) declare the Utility's regular preferred stock dividend for the three-month period ending January 31, 2023, payable on February 15, 2023, to shareholders of records on January 31 (the total estimated amount to be paid is \$3.5 million), and (iv) concur with a \$322 million incremental capital expenditure budget for the 2022 enterprise workplan, which represents a 3% increase to existing authority. He invited questions and discussion on these recommendations.

After discussion, on motion made and seconded, (i) the Board approved authorization of up to \$1,105 million in 2023 in support of the 10,000 mile undergrounding program, (ii) the Board (1) declared a cash dividend on the Utility's common stock for the fourth quarter of 2022 (see Resolution 3 in Attachment A), and (2) declared the regular preferred stock dividend for the three-month period ending January 31, 2023 (see Resolution 4 in Attachment A), and (iii) the Board concurred with an increase to the 2022 capital expenditures budget of \$322 million, as presented.

Ms. Denecour, Chair of the Corporation's Sustainability and Governance Committee, reported on the actions taken and key topics discussed at the Committee's most recent meeting. She reported that, among other matters, the Committee reviewed and agreed to recommend that the Board (i) amend the existing authorization for the Companies to contribute an aggregate of up to \$70 million in charitable contributions to The PG&E Corporation Foundation from 2021 through 2023, by (1) authorizing additional contributions of up to \$50.8 million combined from PG&E Corporation and the Utility and (2) extending the time frame for the authorized contribution, through the end of 2024; (ii) affirm that the PG&E Corporation Chief Executive Officer (CEO) continues to have delegated authority to make such contributions, in consultation with the PG&E Corporation Chief Financial Officer (CFO), consistent with the proposed revised maximum amount and extended time frame; (iii) approve the skills and characteristics (Skills Matrix) to be considered when selecting director nominees for election at the 2023 annual meeting of shareholders; (iv) approve the continued separation of the positions of each Company's (1) independent non-executive Chair of the Board and (2) CEO (or President or principal executive officer(s), if the office of CEO is not filled); and (v) effective upon the resignation of Mr. Seavers from the Board of Directors of Pacific Gas and Electric Company, the Utility Board of Directors (1) fix the size of the Board at 14, (2) determine that the positions of Chair and CEO should continue to be separate, and that the Chair should continue to

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

be selected from the independent directors; and (3) appoint Cheryl F. Campbell as independent Chair of the Board. She invited questions and discussion on these recommendations.

After discussion, on motion made and seconded, the Boards (i) approved the proposed amendment to authorize the Companies to contribute an aggregate of up to \$70 million in charitable contributions to The PG&E Corporation Foundation from 2021 through 2023, as presented, (ii) affirmed that the PG&E Corporation CEO continues to have delegated authority to make such contributions, in consultation with the PG&E Corporation CFO, (iii) approved the Skills Matrix, (iv) approved the continued separation of the positions of each Company's (1) independent non-executive Chair of the Board and (2) CEO (or President or principal executive officer(s), if the office of CEO is not filled), and (v) approved the recommendation to, effective upon the resignation of Dean L. Seavers from the Board of Pacific Gas and Electric Company: (1) fix the size of the Board at 14, (2) determine that the positions of Chair and CEO should continue to be separate, and that the Chair should continue to be selected from the independent directors; and (3) appoint Cheryl F. Campbell as independent Chair of the Board.

Ms. Campbell, Chair of the Utility's Safety and Nuclear Oversight (SNO) Committee, presented the committee's third quarter 2022 report to the Board on the Utility's progress against its 2022 Wildfire Mitigation Plan. This included a discussion of materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board. The directors asked questions, and a discussion ensued.

Mr. Wong presented consent items regarding (i) setting the time and date of the 2023 annual meeting (see Resolution 2 in Attachment A), (ii) establishing the record date for shares entitled to vote at the annual meeting (see Resolution 2 in Attachment A), (iii) approval of the December 15, 2022, PG&E Designated Utility Transactions and Energy Procurement Resolutions by the PG&E Pacific Gas and Electric Company Board of Directors (see Resolution 5 in Attachment A), and (iv) approval of the minutes of the Board's prior meetings, all as described in the materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board.

On motion made and seconded, the Board (i) approved the resolution setting the time and date of the 2023 annual meeting (see Resolution 2 in Attachment A), (ii) the resolution establishing the record date for shares entitled to vote at the annual meeting (see Resolution 2 in Attachment A), (iii) approved the December 15, 2022, PG&E Designated Utility Transactions and Energy Procurement Resolutions by the PG&E Pacific Gas and Electric Company Board of Directors (see Resolution 5 in Attachment A), and (iv) the minutes of the Board meetings held on September 15, 2022.

At this point, Mr. Wright, Mr. Cox, Mr. Foster, Mr. Glickman, Mr. Simon, Ms. Santos, Mr. Singh, Mr. Waghray, Ms. Peterman, Mr. Wong, Ms. Crawford, and Mr. Briggs left the meeting, and the Board continued in executive session.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

After some discussion, Ms. Poppe then left the meeting and the independent directors continued in executive session.

There being no further business presented for action, on motion made and seconded, the meeting was adjourned at 2:00 PM Pacific Time.

BRIAN M. WONG  
Secretary

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

**ATTACHMENT A**

**Resolution 1**

WHEREAS, Section 16 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), requires “officers” of this company to comply with certain reporting requirements and liability provisions with respect to their transactions in this company’s equity securities;

WHEREAS, Exchange Act Rule 16a-1(f) defines an “officer” as the president, the principal financial officer, the principal accounting officer (or, if there is no principal accounting officer, the controller), any vice president in charge of a principal business unit, division, or function, any other officer who performs a policy-making function, or any other person who performs similar policy-making functions;

WHEREAS, Item 401(b) of Regulation S-K under the Securities Act of 1933, as amended, requires the identification of “executive officers” of this company in its Annual Report on Form 10-K and its proxy statement;

WHEREAS, pursuant to Exchange Act Rule 3b-7, the president, any vice president in charge of a principal business unit, division, or function, any other officer who performs a policy-making function, or any other person who performs similar policy-making functions for this company may be identified by this company as an “executive officer” of this company; and

WHEREAS, the Public Utilities Code and related decisions of the CPUC establish requirements regarding compensation provided to “executive officers” of this company;

WHEREAS, pursuant to Public Utilities Code §§ 451.5 and 8389(e), “executive officers” is defined as any person who performs policy making functions and is employed by the public utility subject to the approval of the board of directors, and includes the president, secretary, treasurer, and any vice president in charge of a principal business unit, division, or function of the public utility;

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

WHEREAS, it is in the best interest of this company to identify and reaffirm the “officers” of this company for purposes of Section 16 of the Exchange Act and the “executive officers” of this company for identification in its Annual Report on Form 10-K and its proxy statement, and to reflect current management duties and structure;

NOW, THEREFORE, BE IT RESOLVED that the following officers of this company hereby are identified and affirmed as “officers” of this company for purposes of Section 16 of the Exchange Act and as “executive officers” of this company:

- (1) Jason M. Glickman, Executive Vice President, Engineering, Planning, and Strategy, Pacific Gas and Electric Company;
- (2) Marlene M. Santos, Executive Vice President and Chief Customer Officer, Pacific Gas and Electric Company;
- (3) Adam L. Wright, Executive Vice President, Operations and Chief Operating Officer, Pacific Gas and Electric Company;
- (4) David S. Thomason, Vice President, Chief Financial Officer, and Controller, Pacific Gas and Electric Company (effective until his anticipated January 9, 2023 resignation from such positions);
- (5) Julius Cox, Executive Vice President, People, Shared Services and Supply Chain, PG&E Corporation and Pacific Gas and Electric Company;
- (6) Sumeet Singh, Executive Vice President, Chief Risk Officer and Chief Safety Officer, PG&E Corporation and Pacific Gas and Electric Company; and
- (7) Stephanie N. Williams, Vice President, Chief Financial Officer, and Controller, Pacific Gas and Electric Company (effective and contingent upon the anticipated January 10, 2023 effective date of her election to such positions).

BE IT FURTHER RESOLVED that the officers of this company and their delegates be, and each of them hereby is, authorized, empowered and directed, for and on behalf of this company, to take any and all actions in furtherance of the foregoing

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

resolutions as they deem, in their judgment, necessary, advisable, or appropriate to implement the above; and

BE IT FURTHER RESOLVED that the resolution on this subject adopted by the Board of Directors on February 8, 2022 is hereby superseded.

**Resolution 2**

BE IT RESOLVED that the 2023 annual meeting of shareholders of Pacific Gas and Electric Company shall be held at ten o'clock a.m. on Thursday, May 18, 2023, at Pacific Gas and Electric Company headquarters, 300 Lakeside Drive, Oakland, California, with an opportunity for shareholders to attend by videoconference or other electronic communication; provided that the 2023 annual meeting of shareholders may, to the extent permitted by law, be held entirely by videoconference, other electronic communication, or other means of remote communication ; and

BE IT FURTHER RESOLVED that March 20, 2023 is hereby fixed as the record date for the determination of shareholders entitled to receive notice of and to vote at said annual meeting and at any adjournment thereof.

**Resolution 3**

WHEREAS, the Board of Directors of Pacific Gas and Electric Company (the “Board”) has adopted the Restated Articles of Incorporation establishing rights to payment of dividends on this company’s preferred stock;

WHEREAS, the Board previously has agreed to the conditions set forth in Ordering Paragraphs 1 through 23, inclusive, of Decision No. 96-11-017, as modified by Decision No. 99-04-068, issued by the California Public Utilities Commission (the “Commission” or “CPUC”) approving the formation of a holding company structure (the “Holding Company Conditions”);

WHEREAS, Holding Company Condition 11 and CPUC Affiliate Transaction Rule IX.B. require (i) that this company maintain a balanced capital structure consistent with that determined to be reasonable by the Commission in its most recent decision on the company’s capital structure, (ii) that the company shall maintain sufficient equity such that the Commission’s adopted capital structure for the company shall be maintained on average over the

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

period that the capital structure is in effect for ratemaking purposes, and (iii) that the company file an application with the Commission for a waiver if an adverse financial event reduces the company's equity ratio by one percent (1%) or more;

WHEREAS, the Commission previously authorized a common equity ratio of 52 percent, a preferred equity ratio of 0.5 percent, and a debt ratio of 47.5 percent for this company for the period that the Commission's adopted capital structure for the company is in effect for ratemaking purposes;

WHEREAS, in connection with approving this company's reorganization plan in Decision No. 20-05-053 (the "Decision"), the Commission granted this company a limited waiver from its authorized capital structure for a period of five years from the date of the Decision, which was May 28, 2020, subject to the terms of the Decision and the further clarification regarding the requirements of the waiver explained in Decision No. 20-12-025;

WHEREAS, Holding Company Condition 12 requires that the Board establish the dividend policy of this company as though the company were a comparable stand-alone utility company;

WHEREAS, the Executive Vice President, Operations and Chief Operating Officer and the Vice President, Chief Financial Officer and Controller of this company have certified to the Board that the declaration and payment of a cash dividend on the company's preferred stock as specified in this company's Restated Articles of Incorporation for dividends that will be accrued during the three-month period ending January 31, 2023 comply with or do not violate said Holding Company Conditions, to the extent applicable, and are in compliance with the requirements of the California Corporations Code relating to distributions to shareholders, including Sections 500 and 501, and are in compliance with the company's Restated Articles of Incorporation, and this company is in compliance with the terms of the limited capital structure waiver granted in the Decision and further clarified in Decision No. 20-12-025; and

WHEREAS, the Board has relied on said certificate in taking the actions authorized by this resolution, and, after giving effect to the payment of the dividend declared

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

pursuant to this resolution, the Board has determined that this company has sufficient capital to fulfill its obligations to serve and to operate in a prudent and efficient manner, and that the declaration and payment of a cash dividend on the company's preferred stock otherwise comply with or do not violate said Holding Company Conditions, to the extent applicable, are in compliance with the requirements of the California Corporations Code relating to distributions to preferred shareholders, including Sections 500 and 501, and are in compliance with this company's Restated Articles of Incorporation;

NOW, THEREFORE, BE IT RESOLVED that a cash dividend is hereby declared from the company's retained earnings in the amount of \$3,479,079.32 for dividends that will be accrued during the three-month period ending January 31, 2023, equal to one-fourth of the respective percentage of par value thereof per annum which may be adjusted for rounding and which is prescribed in this company's Restated Articles of Incorporation, including the certificates of determination of preferences, for its fully paid shares of outstanding First Preferred Stock, and that such cash dividend shall be payable on the 15<sup>th</sup> day of February 2023 for dividends that will be accrued during the three-month period ending January 31, 2023 to those persons who at the close of business on the 31<sup>st</sup> day of January 2023 are the owners and holders of record upon the books of this company of such stock, or to their respective executors, administrators, or assigns; and

BE IT FURTHER RESOLVED that the officers, counsel, and Transfer Agent of this company are hereby authorized, jointly and severally, to take such action and execute such agreements and documents on behalf of this company as may in their judgment be necessary, convenient, or appropriate to carry out the foregoing resolution.

**Resolution 4**

WHEREAS, at its June 16, 2022 meeting, this Board of Directors reinstated this company's existing common stock dividend policy and approved a target payout ratio range;

WHEREAS, the Board approved the resumption of payment of dividends on this company's common stock;



BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

WHEREAS, the Board has determined that it is appropriate and in the best interests of this company to continue the payment of dividends on its common stock;

WHEREAS, in connection with approving the holding company structure in Decision No. 96-11-017, as modified by Decision No. 99-04-068, the California Public Utilities Commission (the “Commission” or “CPUC”) imposed certain conditions (the “Holding Company Conditions”) relating to the financial and operational integrity of this company, including those referred to below;

WHEREAS, Holding Company Condition 11 and CPUC Affiliate Transaction Rule IX.B. require (i) that this company maintain a balanced capital structure consistent with that determined to be reasonable by the Commission in its most recent decision on the company’s capital structure, (ii) that the company shall maintain sufficient equity such that the Commission’s adopted capital structure for the company shall be maintained on average over the period the capital structure is in effect for ratemaking purposes, and (iii) that the company file an application with the Commission for a waiver if an adverse financial event reduces the company’s equity ratio by one percent (1%) or more;

WHEREAS, the Commission previously authorized a common equity ratio of 52 percent, a preferred equity ratio of 0.5 percent, and a debt ratio of 47.5 percent for this company for the period that the Commission’s adopted capital structure for the company is in effect for ratemaking purposes;

WHEREAS, in connection with approving this company’s reorganization plan in Decision No. 20-05-053 (the “Decision”), the Commission granted this company a limited waiver from its authorized capital structure for a period of five years from the date of the Decision, which was May 28, 2020, subject to the terms of the Decision and the further clarification regarding the requirements of the waiver explained in Decision No. 20-12-025;

WHEREAS, Holding Company Condition 12 requires that the Board establish the dividend policy of this company as though the company were a comparable stand-alone utility company, and the declaration and payment of the dividend authorized by this resolution have been determined on that basis;

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

WHEREAS, Holding Company Condition 14 requires that the PG&E Corporation Board of Directors give first priority to this company's capital requirements, as determined to be necessary and prudent to meet the company's obligation to serve or to operate the company in a prudent and efficient manner;

WHEREAS, the Executive Vice President, Operations and Chief Operating Officer and the Vice President, Chief Financial Officer and Controller of this company have certified to this Board that the declaration and payment of a cash dividend on the company's common stock comply with or do not violate said Holding Company Conditions, to the extent applicable, are in compliance with the requirements of the California Corporations Code relating to distributions to shareholders, including Sections 500 and 501, and are in compliance with the company's Restated Articles of Incorporation, and this company is in compliance with the terms of the limited capital structure waiver granted in the Decision and further clarified in Decision No. 20-12-025; and

WHEREAS, the Board has relied on said certificate in taking the actions authorized by this resolution, and, after giving effect to the payment of the dividend declared pursuant to this resolution, the Board has determined that this company has sufficient capital to fulfill its obligations to serve and to operate in a prudent and efficient manner, and that the declaration and payment of a cash dividend on the company's common stock otherwise comply with or do not violate said Holding Company Conditions, to the extent applicable, are in compliance with the requirements of the California Corporations Code relating to distributions to shareholders, including Sections 500 and 501, and are in compliance with this company's Restated Articles of Incorporation;

NOW, THEREFORE, BE IT RESOLVED that the Board approves the cash dividend payments on this company's common stock;

BE IT FURTHER RESOLVED that a cash dividend in the aggregate amount of \$425 million is hereby declared on this company's common stock for the 4th quarter of 2022, from the company's retained earnings, and that such cash dividend shall be payable no later than the 30th day of December 2022 to those persons who at the start of business on such date are the

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

owners and holders of record upon the books of this company of such stock, or to their respective executors, administrators, or assigns; and

BE IT FURTHER RESOLVED that the officers, counsel, and Transfer Agent of this company are hereby authorized, jointly and severally, to take such action and execute such agreements and documents on behalf of this company as may in their judgment be necessary, convenient, or appropriate to carry out the foregoing resolution.

**Resolution 5**

BE IT RESOLVED that the Chief Executive Officer and the President of this company each are hereby authorized and empowered for and on behalf of this company and in its name to execute contracts, agreements, transactions, and amendments concerning:

- (1) the purchase or sale of (a) electric capacity or energy, related transmission, and other related products and services, under new and existing contracts with other utility and non-utility entities, and (b) transmission, and other products and services, for electric power generation facilities of this company;
- (2) the purchase, sale, gathering, storage, transportation, parking, lending, or borrowing of natural gas, and related products and services;
- (3) the purchase of electric power from Qualifying Facilities (QFs) under existing standard and non-standard power purchase agreements (PPAs) or new PPAs;
- (4) the purchase or sale of water under wholesale transactions, or the purchase, sale, or assignment of water rights;
- (5) the purchase, sale, storage, or transportation of fuel oil, distillates, and related products and services;
- (6) the provision of electric transmission service to electric facilities of utility or non-utility entities used to serve such entities' customer loads;
- (7) financial and physical energy derivatives, including but not limited to options, swaps, and futures for both natural gas and electricity; and
- (8) greenhouse gas (GHG) compliance instruments and similar instruments relating to GHG emissions trading or compliance programs, as well as financial and physical derivatives (including but not limited to options, swaps, and futures) thereof, purchased, sold,

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

allocated, or otherwise managed in connection with GHG emissions programs established by law, regulation, ordinance, or similar government requirement;

provided that in no event shall such contracts, agreements, transactions, or amendments exceed, or create an obligation which, at the time the company enters into the contract, transaction, agreement, or amendment, exceeds, any applicable individual or cumulative trading or transaction limits included in any risk management program, policy, or strategy approved by PG&E Corporation's Risk Policy Committee as then in effect; and

BE IT FURTHER RESOLVED that the Chief Executive Officer of this company may further delegate the authority granted in this resolution, and that substantive changes to existing delegations and sub-delegations in effect as of the date hereof (as modified from time to time with the written concurrence of the PG&E Corporation Chief Executive Officer) shall require the written concurrence of the PG&E Corporation Chief Executive Officer, and

BE IT FURTHER RESOLVED that, in all cases, any contract, transaction, agreement, or amendment involving obligations on the part of this company with a net present value of \$50 million or more, or a term that exceeds ten (10) years, shall require (i) the concurrence of the PG&E Corporation Chief Executive Officer, (ii) the concurrence of the PG&E Corporation Chief Financial Officer, or (iii) the concurrence of a PG&E Corporation officer, if the PG&E Corporation Chief Executive Officer has authorized in writing such officer to grant such concurrence; any such authority granted hereby being consistent with such officer's role as a representative of the company's majority shareholder; and

BE IT FURTHER RESOLVED that all actions heretofore taken by the company or by, or at the direction of, any officer or director in connection with or relating to the subject matter of the foregoing resolutions or the predecessor resolutions are hereby authorized, approved, ratified, and confirmed in all respects as the acts of the company, having the same force as if performed pursuant to the direct authorization of this Board; and

BE IT FURTHER RESOLVED that the Corporate Secretary or an Assistant Corporate Secretary, in those cases where attestation is desired, is authorized and instructed to

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PACIFIC GAS AND ELECTRIC COMPANY

attest with his or her signature and the corporate seal of this company any and all instruments which shall be executed pursuant to the authority hereinabove conferred; and

BE IT FURTHER RESOLVED that the resolution on this subject adopted by the Board of Directors on February 19, 2014 is hereby superseded.

PRIVILEGED AND CONFIDENTIAL<sup>1</sup>

BOARD MEETING – December 13, 14, and 15, 2022  
PG&E CORPORATION

A regular meeting of the Board of Directors of PG&E Corporation (Corporation) was held at the offices of the Utility, 300 Lakeside Drive, Oakland, California, on Tuesday, December 13, 2022, at 8:00 AM Pacific Time. The meeting was held concurrently with a meeting of the Pacific Gas and Electric Company (Utility and, together with the Corporation, the Companies or PG&E) Board of Directors.

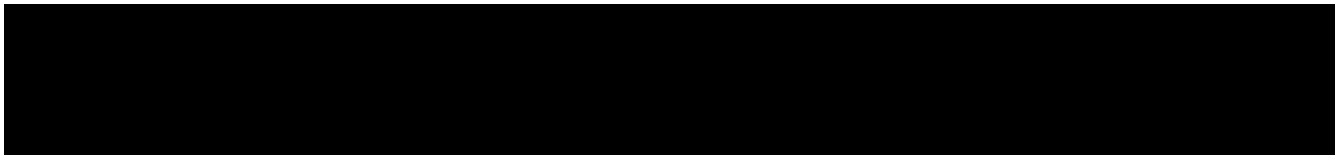
Present at the beginning of the meeting were directors Rajat Bahri, Cheryl F. Campbell, Kerry W. Cooper, Jessica L. Denecour, Mark E. Ferguson III, Robert C. Flexon, W. Craig Fugate, Arno L. Harris, Carlos M. Hernandez, Michael R. Niggli, Patricia K. Poppe, Dean L. Seavers, William L. Smith, and Benjamin F. Wilson.

Also present were Adam L. Wright, Julius Cox, Christopher A. Foster, Jason M. Glickman, Carla J. Peterman, Marlene M. Santos, John R. Simon, Sumeet Singh, Ajay Waghray, Alejandro Vallejo, Brian M. Wong, and Lisa Crawford, and Gabriel H. Briggs.

Quorum present, Mr. Flexon, Chair of the Board of the Corporation, presided as chair of the concurrent meeting. Mr. Wong served as secretary of the meeting.

Mr. Wong opened the meeting with brief remarks about meeting safety.

[THE FOLLOWING PARAGRAPH CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Following the discussion, David Thomason entered the meeting and Thomas Webb entered the meeting via videoconferencing.

Referring to materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board (“Board materials”), Mr. Foster led a discussion on how to read and understand PG&E’s Data Book. The directors asked questions to clarify how to read and interpret the Data Book, about assumptions used, and how coworkers would use it, and a discussion ensued.

After the discussion, Messrs. Thomason and Webb left the meeting and Captain John Cox, Chief Executive Officer of Safety Operating Systems, and Todd W. Filsinger,

---

<sup>1</sup> Certain portions of these minutes are attorney-client privileged and confidential, and are identified as such.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

Operational Observer, Filsinger Energy Partners, entered the meeting and James Howe of Bay Utility Associates, entered the meeting via videoconferencing.

Referring to Board materials, Messrs. Singh, Cox, and Howe provided training on the PG&E Safety Excellence Management System (PSEMS). The directors asked questions and discussed, among other things, how contractors are included in PSEMS, how PSEMS has been received by coworkers, and how PSEMS can be improved over time by incorporating learnings from root cause analyses.

Following the discussion, Messrs. Cox and Howe left the meeting.

After a brief recess, Mr. Filsinger provided a summary of his findings in his role as Operational Observer. This included an update on PG&E's risk-based approach, quality control, vegetation management, and field leadership. The directors asked questions and discussed, among other things, areas for improvement and how PG&E compares to other utilities in the industry, and the PG&E's safety culture.

All guests left the meeting and the directors continued in executive session with Mr. Filsinger.

Following the executive session, Messrs. Simon, Vallejo, Wong, and Briggs and Ms. Crawford entered the meeting.

Referring to Board materials, Messrs. Simon and Vallejo provided Code of Conduct training to the directors. The directors asked questions and discussed, among other things, United States Department of Justice expectations for Board oversight and fiduciary duties.

After the discussion, Messrs. Vallejo and Briggs and Ms. Crawford left the meeting.

At this point, Mr. Seavers informed the Directors of his resignation from the Board.

The Board recessed at 12:25 p.m. and reconvened at 12:15 p.m. on Wednesday, December 14, 2022.

Adam Wright, Julius Cox, Chris Foster, Jason Glickman, Carla Peterman, Marlene Santos, John Simon, Sumeet Singh, Ajay Waghray, Brian Wong, Ellen Conti, and Gabriel Briggs entered the meeting.

Mr. Briggs opened this part of the meeting with brief remarks about meeting safety.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

[THE FOLLOWING PARAGRAPHS CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]

[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Messrs. Seavers and Filsinger then entered the meeting.

Mr. Glickman then led a discussion related to the Companies' True North Strategy (TNS), referring to Board materials. The directors asked questions and discussed, among other things, strategic goals for the next several years and work management. During this discussion, Peter Kenny and Joe Forline entered the meeting. Referring to Board materials, Messrs. Kenny and Forline discussed specific performance improvements that have been realized through the TNS. The directors asked questions and discussed, among other things, the performance improvements related to vegetation management and gas operations. Referring to Board materials, Ms. Santos then presented on one of the basic plays of the Lean operating system, waste elimination, including the Companies' plans for a multiyear training process for coworkers.

Mr. Filsinger then left the meeting.

The Board recessed at 3:30 p.m. and reconvened at 8:00 a.m. on Thursday, December 15, 2022.

Adam Wright, Julius Cox, Chris Foster, Jason Glickman, Carla Peterman, Marlene Santos, John Simon, Sumeet Singh, Ajay Waghray, Brian Wong, Lisa Crawford and Gabriel Briggs entered the meeting.

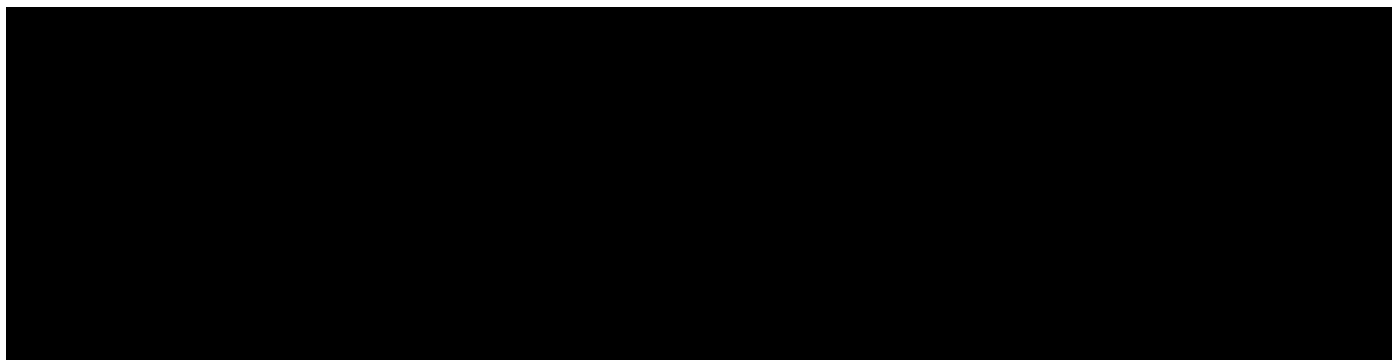
Mr. Wong opened this part of the meeting with brief remarks about meeting safety.



BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

Joe Bentley, Christine Cowsert, David Thomason, and Stephanie Williams then entered the meeting. Mari Becker and Thomas Webb entered the meeting via videoconference.

[THE FOLLOWING PARAGRAPH CONTAINS ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL INFORMATION.]



[END OF PRIVILEGED AND CONFIDENTIAL INFORMATION.]

Messrs. Bentley, Thomason, and Webb, and Meses. Becker, Cowsert, and Williams then left the meeting. Todd Filsinger then entered the meeting.

Referring to Board materials, Meses. Poppe, Peterman, and Santos, and Messrs. Cox, Foster, Glickman, Simon, Singh, Waghray, and Wright led a discussion on the year of 2022 in review, sharing successes and challenges in each functional area. The directors asked questions and engaged in further discussion.

Ms. Poppe and Mr. Wright then introduced the directors to the concept of a Plan on a Page, which includes a strategic and tactical plan that links directly to the TNS. The directors then viewed the Plan on a Page for each functional area and were able to informally ask questions and discuss with the leader of each functional area.

Mr. Filsinger then left the meeting.

Mr. Wilson, Chair of the Corporation's Audit Committee, reported on the key topics discussed at the Committee's most recent meeting.

Mr. Ferguson, Chair of the Corporation's People and Compensation Committee, reported on the key topics discussed at the Committee's most recent meeting. He reported that, among other matters, the Committee reviewed and agreed to recommend that the Board approve the designation of section 16 officers and executive officers of the Corporation. He invited questions and discussion on these recommendations.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

On motion made and seconded, the Board approved the designation of section 16 officers and executive officers of the Corporation (see Resolution 1 in Attachment A).

Mr. Seavers, Chair of the Corporation's Finance and Innovation Committee, led a discussion on the Committee's recommendations that the Board (i) approve authorization of up to \$1,105 million in 2023 in support of the 10,000 mile undergrounding program, (ii) approve the cancellation of an existing \$50 million Directors and Officers liability insurance policy placed in PG&E's insurance captive during the time of PG&E's bankruptcy proceeding, and (iii) concur with a \$322 million incremental capital expenditure budget for the 2022 enterprise workplan, which represents a 3% increase to existing authority. He invited questions and discussion on these recommendations.

After discussion, on motion made and seconded, (i) the Board approved authorization of up to \$1,105 million in 2023 in support of the 10,000 mile undergrounding program, (ii) the Board approved of the cancellation of an existing \$50 million Directors and Officers liability insurance policy placed in PG&E's insurance captive during the time of PG&E's bankruptcy proceeding, and (iii) the Board concurred with an increase to the 2022 capital expenditures budget of \$322 million, as presented.

Ms. Denecour, Chair of the Corporation's Sustainability and Governance Committee, reported on the actions taken and key topics discussed at the Committee's most recent meeting. She reported that, among other matters, the Committee reviewed and agreed to recommend that the Board (i) amend the existing authorization for the Companies to contribute an aggregate of up to \$70 million in charitable contributions to The PG&E Corporation Foundation from 2021 through 2023, by (1) authorizing additional contributions of up to \$50.8 million combined from PG&E Corporation and the Utility and (2) extending the time frame for the authorized contribution, through the end of 2024; (ii) affirm that the PG&E Corporation Chief Executive Officer (CEO) continues to have delegated authority to make such contributions, in consultation with the PG&E Corporation Chief Financial Officer (CFO), consistent with the proposed revised maximum amount and extended time frame; (iii) approve the skills and characteristics (Skills Matrix) to be considered when selecting director nominees for election at the 2023 annual meeting of shareholders; (iv) approve the continued separation of the positions of each Company's (1) independent non-executive Chair of the Board and (2) CEO (or President or principal executive officer(s), if the office of CEO is not filled); and (v) effective upon the resignation of Mr. Seavers from the Board of Directors of PG&E Corporation, the PG&E Corporation Board (1) fix the size of the Board at 13; (2) appoint William L. Smith as Chair of the Board's Finance and Innovation Committee, and (3) appoint Jessica L. Denecour as a member of the Board's People and Compensation Committee. She invited questions and discussion on these recommendations.

After discussion, on motion made and seconded, the Boards (i) approved the proposed amendment to authorize the Companies to contribute an aggregate of up to \$70 million in charitable contributions to The PG&E Corporation Foundation from 2021 through 2023, as

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

presented, (ii) affirmed that the PG&E Corporation CEO continues to have delegated authority to make such contributions, in consultation with the PG&E Corporation CFO, (iii) approved the Skills Matrix, (iv) approved the continued separation of the positions of each Company's (1) independent non-executive Chair of the Board and (2) CEO (or President or principal executive officer(s), if the office of CEO is not filled), and (v) approved the recommendation to, effective upon the resignation of Dean L. Seavers from the Boards of Directors of PG&E Corporation and: (1) fix the size of the Board at 13; (2) appoint William L. Smith as Chair of the Board's Finance and Innovation Committee, and (3) appoint Jessica L. Denecour as a member of the Board's People and Compensation Committee.

Ms. Campbell, Chair of the Corporation's Safety and Nuclear Oversight (SNO) Committee, presented the committee's third quarter 2022 report to the Boards on the Utility's progress against its 2022 Wildfire Mitigation Plan. This included a discussion of materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board. The directors asked questions, and a discussion ensued.

Mr. Wong presented consent items regarding (i) setting the time and date of the 2023 annual meeting (see Resolution 2 in Attachment A), (ii) establishing the record date for shares entitled to vote at the annual meeting (see Resolution 2 in Attachment A), (iii) approval to deregister the remaining shares on the Registration Statement on Form S-8 for the 2006 Long Term Incentive Plan (LTIP), (iv) approval of the December 15, 2022, PG&E Designated Utility Transactions and Energy Procurement Resolutions by the PG&E Corporation Board of Directors (see Resolution 3 in Attachment A), and approval of the minutes of the Board's prior meetings, all as described in the materials that had been provided to the directors in advance of the meeting and that are included in the records of this Board.

On motion made and seconded, the Board (i) approved the resolution setting the time and date of the 2023 annual meeting (see Resolution 2 in Attachment A), (ii) the resolution establishing the record date for shares entitled to vote at the annual meeting (see Resolution 2 in Attachment A), (iii) approved the proposal to deregister the remaining shares on the Registration Statement on Form S-8 for the 2006 LTIP, (iv) approved the December 15, 2022, PG&E Designated Utility Transactions and Energy Procurement Resolutions by the PG&E Corporation Board of Directors (see Resolution 3 in Attachment A), and (v) the minutes of the Board meetings held on September 15, 2022.

At this point, Mr. Wright, Mr. Cox, Mr. Foster, Mr. Glickman, Mr. Simon, Ms. Santos, Mr. Singh, Mr. Waghray, Ms. Peterman, Mr. Wong, Ms. Crawford, and Mr. Briggs left the meeting, and the Board continued in executive session.

After some discussion, Ms. Poppe then left the meeting and the independent directors continued in executive session.

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

There being no further business presented for action, on motion made and seconded, the meeting was adjourned at 2:00 PM Pacific Time.

BRIAN M. WONG  
Secretary

**ATTACHMENT A**

**Resolution 1**

WHEREAS, Section 16 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), requires “officers” of this corporation to comply with certain reporting requirements and liability provisions with respect to their transactions in this corporation’s equity securities;

WHEREAS, Exchange Act Rule 16a-1(f) defines an “officer” as the president, the principal financial officer, the principal accounting officer (or, if there is no principal accounting officer, the controller), any vice president in charge of a principal business unit, division, or function, any other officer who performs a policy-making function, or any other person who performs similar policy-making functions;

WHEREAS, Item 401(b) of Regulation S-K under the Securities Act of 1933, as amended, requires the identification of “executive officers” of this corporation in its Annual Report on Form 10-K and its proxy statement;

WHEREAS, pursuant to Exchange Act Rule 3b-7, the president, any vice president in charge of a principal business unit, division, or function, any other officer who performs a policy-making function, or any other person who performs similar policy-making functions for this corporation may be identified by this corporation as an “executive officer” of this corporation;

WHEREAS, it is in the best interest of this corporation to identify and periodically reaffirm the “officers” of this corporation for purposes of Section 16 of the Exchange Act and the “executive officers” of this corporation for identification in its Annual Report on Form 10-K and its proxy statement, to reflect current management duties and structure;

NOW, THEREFORE, BE IT RESOLVED that the following officers of this Corporation and, to the extent applicable, Pacific Gas and Electric Company, hereby are identified and affirmed as “officers” of this corporation for purposes of Section 16 of the Exchange Act and as “executive officers” of this corporation:

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

- (1) Patricia K. Poppe, Chief Executive Officer, PG&E Corporation;
- (2) Christopher A. Foster, Executive Vice President and Chief Financial Officer, PG&E Corporation;
- (3) Julius Cox, Executive Vice President, People, Shared Services and Supply Chain, PG&E Corporation and Pacific Gas and Electric Company;
- (4) Jason M. Glickman, Executive Vice President, Engineering, Planning, and Strategy, Pacific Gas and Electric Company;
- (5) Carla Peterman, Executive Vice President, Corporate Affairs and Chief Sustainability Officer;
- (6) Marlene M. Santos, Executive Vice President and Chief Customer Officer, Pacific Gas and Electric Company;
- (7) John R. Simon, Executive Vice President, General Counsel, and Chief Compliance and Ethics Officer, PG&E Corporation;
- (8) Sumeet Singh, Executive Vice President, Chief Risk Officer and Chief Safety Officer, PG&E Corporation and Pacific Gas and Electric Company;
- (9) Ajay Waghray, Senior Vice President and Chief Information Officer, PG&E Corporation; and
- (10) Adam L. Wright, Executive Vice President, Operations and Chief Operating Officer, Pacific Gas and Electric Company; and

BE IT FURTHER RESOLVED that David S. Thomason, Vice President and Controller of PG&E Corporation, hereby is identified and affirmed as an “officer” of this corporation for purposes of Section 16 of the Exchange Act, effective until his anticipated resignation from such positions on January 9, 2023; and

BE IT FURTHER RESOLVED that Stephanie N. Williams, effective and contingent upon the January 10, 2023, effective date of her election as Vice President and Controller of PG&E Corporation, hereby is identified and affirmed as an “officer” of this corporation for purposes of Section 16 of the Exchange Act; and

BE IT FURTHER RESOLVED that the officers of this corporation and their delegates be, and each of them hereby is, authorized, empowered and directed, for and on behalf of the corporation, to take any and all actions in furtherance of the foregoing

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

resolutions as they deem, in their judgment, necessary, advisable, or appropriate to implement the above; and

BE IT FURTHER RESOLVED that the resolution on this subject adopted by the Board of Directors on February 8, 2022, is hereby superseded.

**Resolution 2**

BE IT RESOLVED that the 2023 annual meeting of shareholders of PG&E Corporation shall be held at ten o'clock a.m. on Thursday, May 18, 2023, at PG&E Corporation headquarters, 300 Lakeside Drive, Oakland, California, with an opportunity for shareholders to attend by videoconference or other electronic communication; provided that the 2023 annual meeting of shareholders may, to the extent permitted by law, be held entirely by videoconference, other electronic communication, or other means of remote communication; and

BE IT FURTHER RESOLVED that March 20, 2023 is hereby fixed as the record date for the determination of shareholders entitled to receive notice of and to vote at said annual meeting and at any adjournment thereof.

**Resolution 3**

WHEREAS, this corporation (the "Corporation") and its controlled subsidiaries together hold a majority of the outstanding shares of Pacific Gas and Electric Company (the "Utility");

WHEREAS, Article II, Section 10 of the Utility's Bylaws provides that, so long as PG&E Corporation shall hold the majority of the Utility's outstanding shares, the Corporation may require that the Utility obtain the written consent of the Corporation's Chairman of the Board or the Corporation's Chief Executive Officer to enter into and execute any transaction or type of transaction identified by this Board (a "Designated Transaction"); and

WHEREAS, any "Designated Transaction" must be identified as such in a duly adopted resolution of this Board;

NOW, THEREFORE, BE IT RESOLVED that this Board of Directors hereby identifies as a "Designated Transaction" any of the following:

BOARD MEETING – DECEMBER 13, 14, and 15 2022  
PG&E CORPORATION

- (1) any agreement that commits the Utility to the expenditure of funds or the disposal of property with a value exceeding \$150 million; and
- (2) any other transactions governed by Utility policies that require the concurrence or approval of the PG&E Corporation Chairman of the Board or the PG&E Corporation Chief Executive Officer, including policies relating to approval of regulatory settlements, legal settlements, or any other contractual arrangements;

in each case, as such amount or threshold for written consent may be amended by the Utility, with the written consent of the Chairman of the Board or the Chief Executive Officer of this Corporation; and

BE IT FURTHER RESOLVED that any such Designated Transaction shall require the written consent of the Chairman of the Board or the Chief Executive Officer of this Corporation.